2022 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Gypsum Landfill
Permit 038-016D(CCR)
Newnan, Georgia

July 29, 2022

2022 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Gypsum Landfill
Permit 038-016D(CCR)
Newman, Georgia

July 29, 2022

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Summary

This summary of the 2022 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program July 2021 through June 2022 at Georgia Power Company's (Georgia Power's) Plant Yates Gypsum Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the site. The site is located on the northern portion of the Plant Yates property. The Gypsum Landfill was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-016D(CCR) for Plant Yates Gypsum Landfill on January 5, 2022.

Plant Yates and the site

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. A permit application package for the Gypsum Landfill was submitted in November 2018 to comply with the CCR rule and approved on January 5, 2022 (Permit 038-016D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019.

During this annual reporting period, the site remained in assessment monitoring. During the 2022 annual reporting period, Arcadis conducted groundwater sampling events in August 2021 and February 2022. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) for Appendix IV[3] parameters[4].

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

Appendix III Parameter	August 2021	February 2022
Boron	GWC-4R	GWC-2R, GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-5R, GWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

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

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Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
CCR	Coal Combustion Residuals
CCR Units	the combined monitoring systems of AP-3, A, B, and B', and the R6 Landfill
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
ORP	oxidation-reduction potential
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2022 Annual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Gypsum Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

Arcadis U.S., Inc.

7.29.22

J. Geoffrey Gay, P.E.
Technical Expert (Eng)
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Date

1 Introduction

This 2022 Annual Groundwater Monitoring and Corrective Action Report presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Gypsum Landfill (the site) from July 2021 through June 2022. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

The list of analytes included in the groundwater monitoring program was modified to meet the requirements of 40 CFR §§ 257.90 through 257.95 of the Federal CCR Rule through a minor modification in August 2017. A notice of assessment monitoring was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the Supplemental 2019 First Semiannual Groundwater Monitoring Report (ACC 2019). This report presents the results of the August 2021 and February 2022 semiannual monitoring events for Appendix III and IV constituents of 40 CFR Part 257, and 40 CFR Part 258 Appendix I and II metals required by the previous state permit.

1.1 Site Description and Background

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

The site ceased accepting CCR before October 19, 2015 and is therefore not subject to federal monitoring requirements. The site was closed following the removal of all gypsum and liner material. A closure certification report was submitted to GAEPD in January 2017. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 5, 2022 (Permit 038-016D(CCR)). Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2**.

1.2 Site Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2019).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically

exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) 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 on the site. The average hydraulic conductivity for the unit is 1.3×10^{-3} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2021). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was previously installed within the uppermost aquifer at the site. The monitoring system was designed to monitor groundwater passing the unit boundary within the uppermost aquifer. Wells were placed to serve as upgradient and downgradient monitoring points based on groundwater flow direction. **Table 1** presents a summary of the monitoring well network depicted on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the second half of 2021 and the first half of 2022 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted by Arcadis at the site during the second half of 2021 and the first half of 2022. During these sampling events, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b) as well as permit-required Appendix I and II constituents. Analytical laboratory reports and data validation reports are included in **Appendix A**. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling. Details regarding the wells are included in **Table 1**, and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). During the sampling events, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during these periods that required corrective actions. The August 2021 inspection documentation served as the required five year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

SSIs of Appendix III constituents were identified in the initial detection monitoring event (June 2019). The initial assessment monitoring event was conducted in August 2020. Assessment monitoring events were conducted in August 2021 and February 2022. Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected from the CCR monitoring wells were analyzed for Appendix III and IV constituents, in addition to Appendix I and II metals required by the existing state permit. **Table 3** provides a summary of the constituents monitored during the events.

3 Sample Methodology and Analysis

Groundwater monitoring methods used at the site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the sampling event, static water levels were recorded from the wells in the well network for the Gypsum Landfill. Groundwater elevations recorded during the August 2021 and February 2022 monitoring events are summarized in **Table 4**. Potentiometric surface maps are provided on **Figures 4 and 5** for the August 2021 and February 2022 sampling events. The general direction of groundwater flow across the site is towards the west and is consistent with historical patterns.

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

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

The groundwater flow velocity was calculated for the site based on hydraulic gradients, average hydraulic conductivity based on updated slug test data from April 2021, 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). An alternate effective porosity of 0.48 was also used to define the range of groundwater flow velocities (SCS 1992). Groundwater flow velocity calculations are presented in **Table 5**. The calculated flow velocity ranged from 0.19 foot per day (69 feet per year) to 0.47 foot per day (170 feet per year). These calculated groundwater velocities across the site are generally consistent with expected velocities in the site-specific geology.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations.

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

- ± 0.1 standard units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units (NTU). If turbidity remains between 5 and 10 NTU after three hours of purging and all other parameters have stabilized, the well could be sampled;
- ±10% or ±0.2 mg/L (whichever is greater) for DO where DO >0.5 mg/L. If DO <0.5 mg/L no stabilization criteria apply.

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

3.3 Laboratory Analysis

Groundwater samples collected during the assessment events were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1), and the 40 CFR Part 258 Appendix I and II metals required by the previous state permit. **Table 3** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**. Analytical data collected from the assessment events are summarized in **Table 6**.

Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for

this project. Laboratory reports and chain-of-custody records for the monitoring event are presented in **Appendix A**.

3.4 Data Quality Assurance/Quality Control and Validation

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

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the method detection limit (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 I, II, III, and IV groundwater monitoring data was performed on samples collected from the Gypsum Landfill groundwater monitoring network pursuant to § 257.93(f) in August 2021 and February 2022. 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, US EPA 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 both Appendix III constituents and permit required Appendix I and II metals is performed.

4.1.1 Permit-Required Appendix I and II Metals

A minor permit modification was submitted to GAEPD following submittal of the 2019 First Supplemental Semiannual Groundwater Monitoring Report to allow use of intrawell methods for evaluation of state metals. The statistical methodology was revised to an intrawell method following the June 2019 monitoring event.

Statistical tests used to evaluate the groundwater monitoring data consist of intrawell prediction limits (PLs) combined with a 1-of-2 verification resample plan for all permit-required metals. In an intrawell comparison, analytical results from an individual well are compared to historical analytical results from that same well. If data from a sampling event initially exceed the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, an independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If a resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix III Monitoring Statistics

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters boron, calcium, chloride, sulfate, and total dissolved solids (TDS) combined with a 1-of-2 verification resample plan. Monitoring results for fluoride and pH were evaluated using intrawell prediction limits combined with a 1-of-2 verification resample plan. Interwell prediction limits pool upgradient well data to establish a background statistical limit. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances of background. When the most recent sample exceeds its respective background statistical limit, an SSI is identified. 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 and 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 PLs were used on data containing greater than 50 percent non-detects.

4.1.3 Appendix IV Assessment Monitoring Statistics

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

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

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66;
- For the following constituents:
  - Cobalt 0.006 milligram per liter (mg/L)
  - Lead 0.015 mg/L
  - Lithium 0.040 mg/L
  - Molybdenum 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents is higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at the Gypsum Landfill. **Table 7** summarizes the background limits established at each monitoring well for the August 2021 and February 2022 sampling events along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, a statistically significant level (SSL) exceedance was identified.

4.2 Statistical Analysis Results

4.2.1 Permit-Required Appendix I and II Metals

Analytes required by the existing state permit were analyzed during the semiannual monitoring events. Concentrations of target metals that exceeded their respective intrawell PLs calculated from the August 2021 sampling event include the constituents listed below.

- Beryllium: GWC-5R;
- Cobalt: GWC-3R;
- Selenium: GWC-1R and GWC-3R;
- Zinc: GWA-2 (upgradient) and GWC-5R.

While a PL exceedance was noted for beryllium in GWC-5R and selenium for GWC-1R and GWC-3R, concentrations at these wells are below their respective groundwater protection standards of 0.004 mg/L and 0.05 mg/L. The downgradient well concentrations for zinc at GWC-5R and cobalt at GWC-3R are below the groundwater protection standards of 5.0 mg/L for zinc and 0.035 mg/L for cobalt.

Concentrations of target metals that exceeded their respective intrawell PLs calculated from the February 2022 sampling event include the constituents listed below.

- Selenium: GWC-1R

The concentration at GWC-1R (0.02 mg/L) for selenium slightly exceeded the intrawell prediction limit of 0.019 mg/L. If the prediction limit is rounded to the same number of significant figures as the February 2022 observation, the PL and the observation are equal. While a PL exceedance was noted for selenium for GWC-1R, the concentration at this well is below its respective GWPS of 0.05 mg/L.

4.2.2 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituents have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table identifying the site monitoring wells in which analytical sampling results have revealed constituents with SSIs is included in **Appendix C**.

4.2.3 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2021 and February 2022 Appendix IV data at the Gypsum Landfill 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.

5 Monitoring Program Status

In accordance with GAEPD rule 391-3-4-.10(6)(a) and 40 CFR §257.94(e), an assessment monitoring program was initiated in November 2019. The site will remain in assessment monitoring due to SSIs for Appendix I and III parameters.

6 Conclusions and Future Actions

This 2022 Annual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified SSIs of Appendix I and III constituents.

The next assessment monitoring event is scheduled for August 2022. The monitoring event will include sampling and analysis of all Appendix I, II, III and IV constituents.

7 References

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Tables

Table 1
Monitoring Well Network Summary
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Georgia Power Company
Plant Yates - Gypsum Landfill

Well	Installation Date	Top of Casing Elevation (ft)	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
Upgradient Wells							
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
Downgradient Wells							
GWC-1R	5/12/2011	773.27	36.37	736.90	26.07	747.20	Downgradient
GWC-2R	10/19/2010	769.76	44.00	725.76	33.70	736.06	Downgradient
GWC-3R	5/11/2011	775.25	38.45	736.80	28.15	747.10	Downgradient
GWC-4R	10/20/2010	757.48	30.20	727.28	19.90	737.58	Downgradient
GWC-5R	5/11/2011	782.45	42.35	740.10	32.05	750.40	Downgradient
GWC-6R	8/11/2009	788.98	55.25	733.73	41.94	747.04	Downgradient

Notes:

ft bTOC - feet below top of casing

Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey

Table 2
Groundwater Sampling Event Summary
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Well	Hydraulic Location	Semiannual Assessment
		August 2021 / February 2022
GWA-2	Upgradient	X
GWC-1R	Downgradient	X
GWC-2R	Downgradient	X
GWC-3R	Downgradient	X
GWC-4R	Downgradient	X
GWC-5R	Downgradient	X
GWC-6R	Downgradient	X

Notes

1. All wells analyzed for Appendix III and IV.

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

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

Table 3
Summary of Groundwater Monitoring Parameters
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Appendix I and II Metals (State Permit)	Appendix III (40 CFR 257)	Appendix IV (40 CFR 257)
Antimony	Boron	Antimony
Arsenic	Calcium	Arsenic
Barium	Chloride	Barium
Beryllium	Fluoride	Beryllium
Cadmium	pH	Cadmium
Chromium	Sulfate	Chromium
Cobalt	Total Dissolved Solids	Cobalt
Copper		Fluoride
Lead		Lead
Mercury		Lithium
Nickel		Mercury
Selenium		Molybdenum
Silver		Radium combined - 226/228
Thallium		Selenium
Vanadium		Thallium
Zinc		

Table 4
Summary of Groundwater Elevations
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Well ID	Date Measured	Top of Casing Elevation (ft) [1]	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
GWA-2	8/16/2021	805.62	35.73	769.89
GWC-1R	8/16/2021	773.27	21.26	752.01
GWC-2R	8/16/2021	769.76	27.70	742.06
GWC-3R	8/16/2021	775.25	26.66	748.59
GWC-4R	8/16/2021	757.48	15.46	742.02
GWC-5R	8/16/2021	782.45	27.35	755.10
GWC-6R	8/16/2021	788.98	33.59	755.39
GWA-2	2/7/2022	805.62	36.39	769.23
GWC-1R	2/7/2022	773.27	21.24	752.03
GWC-2R	2/7/2022	769.76	27.93	741.83
GWC-3R	2/7/2022	775.25	27.20	748.05
GWC-4R	2/7/2022	757.48	15.09	742.39
GWC-5R	2/7/2022	782.45	27.92	754.53
GWC-6R	2/7/2022	788.98	34.08	754.90

Notes

ft bTOC - feet below top of casing

[1] Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey.

Table 5 - Groundwater Flow Velocity Calculations
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

ARCADIS

Equation

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

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

Values Used in Calculation

Value			Source
K:	1.03E-03	cm/sec	See note 1
	2.91	ft/day	
			Hydraulic gradient from:
i_1 =	0.032	unitless	GWA-2 to GWC-4R (Aug. 2021)
i_1 =	0.031	unitless	GWA-2 to GWC-4R (Feb. 2022)
n_e =	0.48	unitless	See note 1
n_e =	0.20	unitless	See note 2

Site-specific groundwater linear velocity using porosity value of 0.48

Aug. 2021

$$v = \frac{(2.91)\,(0.032)}{0.48}$$

v = 0.194 ft/day or 71 ft/year

Feb. 2022

$$v = \frac{(2.91)\,(0.031)}{0.48}$$

v = 0.187 ft/day or 69 ft/year

Groundwater linear velocity using literature porosity value of 0.20

Aug. 2021

$$v = \frac{(2.91)\,(0.032)}{0.20}$$

v = 0.47 ft/day or 170 ft/year

Feb. 2022

$$v = \frac{(2.91)\,(0.031)}{0.20}$$

v = 0.45 ft/day or 164 ft/year

Notes

1. Groundwater Monitoring Plan, Plant Yates, Inactive CCR Landfill - Gypsum Stack (ACC 2021)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 6 - Summary of Groundwater Analytical Data
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

	Analyte	Units [1]	GWA-2 8/20/2021	GWA-2 2/8/2022	GWC-1R 8/18/2021	GWC-1R 2/8/2022	GWC-2R 8/18/2021	GWC-2R 2/9/2022	GWC-3R 8/18/2021	GWC-3R 2/8/2022	GWC-4R 8/18/2021
	Appendix III (40 CFR 257)										
Appendix III (40 CFR 257)	pH	SU	5.86	5.83	5.08	5.16	4.96	5.20	4.73	5.10	5.46
	Boron	mg/l	< 0.0086	< 0.0086	0.029 J	0.021 J	0.14	0.23	< 0.0086	< 0.0086	4.5
	Calcium	mg/l	26.5	25.6	154	166	45.8	46.6	20.2	17.9	56.2
	Chloride	mg/l	5.2	5.7	5.2	5.6	26.2	21.2	4.6	4.5	150
	Fluoride	mg/l	0.060 J	0.064 J	< 0.050	< 0.050	< 0.050	< 0.050	0.16	0.16	< 0.050
	Sulfate	mg/l	121	107	675	687	223	241	114	93.5	118
	Total Dissolved Solids	mg/l	254	283	1200	1310	474	466	214	231	630
Appendix IV (40 CFR 257)	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0011	0.0033 UB	0.0016 J	0.0026 UB	< 0.0011	< 0.0011	0.0028 J	0.0015 UB	< 0.0011
	Barium	mg/l	0.036	0.037	0.076	0.066	0.033	0.038	0.014	0.013	0.040
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00030 J	0.00032 J	0.00022 J	0.00023 J	0.0011	0.0010	0.00011 J
	Cadmium	mg/l	< 0.00011	< 0.00011	0.00017 J	0.00019 J	0.00016 J	< 0.00011	0.00022 J	0.00018 J	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	0.0015 J	0.0020 J	< 0.0011	< 0.0011	< 0.0011	0.0011 J	< 0.0011
	Cobalt	mg/l	0.074	0.072	0.0014 J	0.0019 J	0.00066 J	0.00085 J	0.010	0.0074	0.0027 J
	Fluoride	mg/l	0.060 J	0.064 J	< 0.050	< 0.050	< 0.050	< 0.050	0.16	0.16	< 0.050
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0028 J	0.0031 J	0.0019 J	0.0018 J	0.0049 J	0.0042 J	0.0010 J	0.00094 J	0.00085 J
	Mercury	mg/l	< 0.000078	< 0.00013	< 0.000078	< 0.00013	< 0.000078	< 0.00013	< 0.000078	< 0.00013	< 0.000078
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Radium	pci/l	0.528 U	0.462 U	0.713 U	0.649 U	0.583 U	0.420 U	0.544 U	0.389 U	0.109 U
	Selenium	mg/l	< 0.0014	< 0.0014	0.019	0.020	0.0042 J	0.0042 J	0.017	0.0091	0.0046 J
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Appendix I & II Metals (State Permit) [2]	Copper	mg/l	0.0012 J	0.0012 J	0.00067 J	0.00072 J	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Nickel	mg/l	0.014	0.017	0.0028 J	0.0032 J	< 0.00071	< 0.00071	< 0.00071	< 0.00071	0.0026 J
	Silver	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044
	Vanadium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Zinc	mg/l	0.014	0.014	< 0.0070	< 0.0070	< 0.0070	< 0.0070	0.011	0.0098 J	< 0.0070

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 I and II parameters included to meet EPD Rule 391-3-4-.14 requirements that is not included in the Appendix IV parameter list

-- Not analyzed for this constituent.

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

Laboratory Qualifiers:

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

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

UB= Analyte considered non-detect at the listed value due to assoicated blank contamination.

Table 6 - Summary of Groundwater Analytical Data
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units [1]	GWC-4R 2/8/2022	GWC-5R 8/18/2021	GWC-5R 2/9/2022	GWC-6R 8/18/2021	GWC-6R 2/8/2022
	Appendix III (40 CFR 257)						
Appendix III (40 CFR 257)	pH	SU	5.67	4.76	4.82	5.82	5.89
	Boron	mg/l	5.3	0.021 J	0.043	< 0.0086	< 0.0086
	Calcium	mg/l	66.5	159	139	74.5	61.5
	Chloride	mg/l	162	2.3	2.0	5.4	6.9
	Fluoride	mg/l	< 0.050	0.056 J	0.053 J	< 0.050	< 0.050
	Sulfate	mg/l	146	946	937	345	260
	Total Dissolved Solids	mg/l	648	1660	1440	682	549
Appendix IV (40 CFR 257)	Antimony	mg/l	0.0017 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0013 UB	0.0021 J	0.0034 UB	< 0.0011	< 0.0011
	Barium	mg/l	0.031	0.013	0.011	0.035	0.030
	Beryllium	mg/l	0.000085 J	0.0033	0.0036	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	0.0010	0.0010	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0023 J	0.0022 J	0.0015 J	0.0017 J
	Cobalt	mg/l	0.0034 J	0.00053 J	0.00064 J	< 0.00039	< 0.00039
	Fluoride	mg/l	< 0.050	0.056 J	0.053 J	< 0.050	< 0.050
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	< 0.00073	0.0016 J	0.0018 J	0.0016 J	0.0016 J
	Mercury	mg/l	< 0.00013	< 0.000078	< 0.00013	< 0.000078	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Radium	pci/l	0.319 U	0.437 U	0.480 U	0.352 U	0.413 U
	Selenium	mg/l	0.0044 J	0.017	0.017	0.0016 J	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Appendix I & II Metals (State Permit) [2]	Copper	mg/l	< 0.00050	0.0022 J	0.0014 J	0.00083 J	0.00080 J
	Nickel	mg/l	0.0017 J	0.0016 J	0.0014 J	0.0012 J	0.0010 J
	Silver	mg/l	< 0.00044	0.00084 J	< 0.00044	< 0.00044	< 0.00044
	Vanadium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Zinc	mg/l	< 0.0070	0.026	0.025	< 0.0070	< 0.0070

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 I and II parameters included to meet EPD Rule 391-3-4-.14 requirements that is not included in the Appendix IV parameter list

-- Not analyzed for this constituent.

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

Laboratory Qualifiers:

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

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

UB= Analyte considered non-detect at the listed value due to assoicated blank contamination.

Table 7 - Background Levels and Groundwater Protection Standards
2022 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Constituent	Units	Background	GWPS
February 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.0005	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035 [1]	0.035 [1]
Fluoride	mg/L	0.68	4
Lead [2]	mg/L	0.0013	0.015
Lithium [2]	mg/L	0.03	0.040
Mercury	mg/L	0.0005	0.002
Molybdenum [2]	mg/L	0.014	0.1
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92 [1]	6.92 [1]

Notes

GWPS - Groundwater Protection Standard per 40 CFR §257.95(h).

Site background - Tolerance limits calculated from pooled upgradient well data.

1. Background concentration is higher than the federally promulgated value (0.006 mg/L for Co). Background is higher than radium MCL (5 mg/L). Therefore background is the GWPS.

2. Prior to GA EPD's adoption of the federal GWPSs for these constituents in April 2022, the State GPWSs were: Lead (0.0013 mg/L), Lithium (0.03), Molybenum (0.014).

Acronyms and Abbreviations:

GWPS - Groundwater Protection Standard
mg/L - millgrams per liter
pCi/L - picocuries per liter

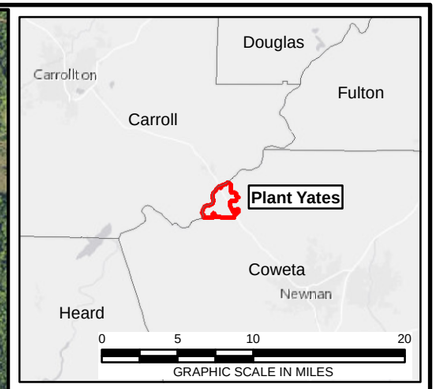
Figures

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

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

FORMER GYPSUM STACK LANDFILL

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



LEGEND

APPROXIMATE PROPERTY BOUNDARY
PERMITTED UNIT BOUNDARY

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

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

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 7/29/2022

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

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'10"W
84°54'0"W
84°53'50"W
33°28'0"N
33°27'50"N

GWC-4R
GWC-2R
GWC-1R
GWC-6R
GWC-3R
FORMER GYPSUM STACK LANDFILL
GWC-5R
GWA-2

LEGEND

- SAPROLITE NETWORK MONITORING
- BEDROCK NETWORK MONITORING
- PERMITTED UNIT BOUNDARY

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

0 112.5 225 450
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'10"W
84°54'0"W
84°53'50"W
33°28'0"N
33°27'50"N

GWC-4R
742.39
GWC-2R
741.83
GWC-1R
752.03
GWC-6R
754.90
GWC-3R
748.05
GWC-5R
754.53
GWA-2
769.23
FORMER GYPSUM STACK LANDFILL
745
750
755
760
765

LEGEND

- SAPROLITE NETWORK MONITORING
- BEDROCK NETWORK MONITORING
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- 742.39 GROUNDWATER ELEVATION (FEET)

NOTES:
1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

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

0 112.5 225 450
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2022

ARCADIS

FIGURE
4

84°54'10"W
84°54'0"W
84°53'50"W
33°28'0"N
33°27'50"N

GWC-4R
742.39
GWC-2R
741.83
GWC-1R
752.03
GWC-6R
754.90
GWC-3R
748.05
GWC-5R
754.53
GWA-2
769.23
FORMER GYPSUM STACK LANDFILL
745
750
755
760
765

LEGEND

- SAPROLITE NETWORK MONITORING
- BEDROCK NETWORK MONITORING
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- 742.39 GROUNDWATER ELEVATION (FEET)

NOTES:
1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

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

0 112.5 225 450
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2022

ARCADIS

FIGURE
4

Appendix A

Laboratory Analytical Reports and Data Validation Reports

August 2021 Event

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92557052 and 92557081

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

Report #43281R
Review Level: Tier II
Project: 30053438.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92557052 and 92557081 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
GWC-5R	92557052001 92557081001	Water	8/18/2021		X	X	X
GWC-3R	92557052002 92557081002	Water	8/18/2021		X	X	X
G-EB-1	92557052003 92557081003	Water	8/20/2021		X	X	X
G-FB-1	92557052004 92557081004	Water	8/18/2021		X	X	X
GWC-6R	92557052005 92557081005	Water	8/18/2021		X	X	X
GWC-1R	92557052006 92557081006	Water	8/18/2021		X	X	X
GWC-4R	92557052007 92557081007	Water	8/18/2021		X	X	X
GWC-2R	92557052008 92557081008	Water	8/18/2021		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWC-5R GWC-1R	Boron (FB)	Detected sample results <RL and <BAL	"UB" at the RL

Notes:
FB = Field blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample GWC-5R in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D and SW-846 6020B analysis.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D and SW-846 6020B analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Cold Vapor Atomic Absorption (CVAA)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWC-5R GWC-3R GWC-6R	Chloride (FB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration
GWC-3R	Fluoride (FB)		
GWC-5R	Fluoride (FB)	Detected sample results <RL and <BAL	“UB” at the RL

Notes:
FB = Field blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed on sample location GWC-6R in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
GWC-6R	Sulfate	AC (80%)	73%

Note:
AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample G-FB-1 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the reporting limit (RL) of 1 pCi/L.

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

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

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

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

For all analyses in soil matrices, data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- GWC-5R, GWC-3R, G-EB-1, G-FB-1, GWC-6R, and GWC-4R – Radium-226, Radium-228, and total Radium
- GWC-1R and GWC-2R – Radium-228 and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 24, 2021

PEER REVIEW: Dennis Capria

DATE: December 2, 2021

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	Geoff Gay	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:		Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates Gypsum Pond DG	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 (9315/9320)	App I and II Metals 6020B (Ca, Ni, Ag, Tl, V, Z)	Residual Chlorine (Y/N)	
1	G-EB-1	WT	G																x	x	x	x	x	x	x		pH
2	G-FB-1	WT	G																x	x	x	x	x	x	x		pH
3	~~GWC-6R~~	WT	G																x	x	x	x	x	x	x		pH
4	GWC-5R	WT	G	08/18	1154	08/18	1248		5	X		X							x	x	x	x	x	x	x		pH 4.76
5	~~GWC-1R~~	WT	G																x	x	x	x	x	x	x		pH
6	GWC-3R	WT	G	08/18	1435	08/18	1512		5	X		X							x	x	x	x	x	x	x		pH 2.38
7	~~GWC-4R~~	WT	G																x	x	x	x	x	x	x		pH
8	~~GWC-2R~~	WT	G																x	x	x	x	x	x	x		pH
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	/Atcadis	8/20	1750		8/20/21	1750	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/20/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	Geoff Gay	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:		Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates Gypsum Pond DG	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2540C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury: 7470A	Radium 226/228: 9315/9320	App I and II Metals: 6020B Cu, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
1	G-EB-1	WT	G	8/20	1220				5										x	x	x	x	x	x	x	pH
2	G-FB-1	WT	G	8/18	1240				5										x	x	x	x	x	x	x	pH
3	GWC-6R	WT	G	8/18	0945				5										x	x	x	x	x	x	x	pH 5.82
4	~~GWC-5R~~	WT	G																x	x	x	x	x	x	x	pH
5	GWC-1R	WT	G	8/18	1225				5										x	x	x	x	x	x	x	pH 5.08
6	~~GWC-3R~~	WT	G																x	x	x	x	x	x	x	pH
7	GWC-4R	WT	G	8/18	1425				5										x	x	x	x	x	x	x	pH 5.46
8	GWC-2R	WT	G	8/18	1630				5										x	x	x	x	x	x	x	pH 4.16
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/20	1730		8/20/12	1730	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92557052	No qualifiers assigned						
92557081	GWC-5R	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		EPA 300.0	Chloride	2.3	mg/L	UB	Blank contamination
			Fluoride	0.10	mg/L	UB	Blank contamination
	GWC-3R	EPA 300.0	Chloride	4.6	mg/L	UB	Blank contamination
			Fluoride	0.16	mg/L	UB	Blank contamination
	GWC-6R	EPA 300.0	Chloride	5.4	mg/L	UB	Blank contamination
			Sulfate	345	mg/L	J	MSD %R <LCL
	GWC-1R	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		EPA 300.0	Chloride	5.2	mg/L	UB	Blank contamination

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

Qualifiers:
UB = not detected due to blank contamination
J = estimated result

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

September 02, 2021

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

RE: Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Nicole D'Oleo

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

Enclosures

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

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557081001	**GWC-5R**	Water	08/18/21 12:48	08/20/21 17:30
92557081002	**GWC-3R**	Water	08/18/21 17:12	08/20/21 17:30
92557081003	**G-EB-1**	Water	08/20/21 12:20	08/20/21 17:30
92557081004	**G-FB-1**	Water	08/18/21 12:40	08/20/21 17:30
92557081005	**GWC-6R**	Water	08/18/21 09:45	08/20/21 17:30
92557081006	**GWC-1R**	Water	08/18/21 12:25	08/20/21 17:30
92557081007	**GWC-4R**	Water	08/18/21 14:25	08/20/21 17:30
92557081008	**GWC-2R**	Water	08/18/21 16:30	08/20/21 17:30

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557081001	**GWC-5R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081002	**GWC-3R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081003	**G-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081004	**G-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081005	**GWC-6R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081006	**GWC-1R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081007	**GWC-4R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081008	**GWC-2R**	EPA 6010D	DRB	1
		EPA 6020B	CW1	18

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557081001	**GWC-5R**					
	Performed by	CUSTOMER			08/23/21 16:59	
	pH	4.76	Std. Units		08/23/21 16:59	
EPA 6010D	Calcium	159	mg/L	1.0	08/26/21 14:08	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Barium	0.013	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Beryllium	0.0033	mg/L	0.00050	08/31/21 15:59	
EPA 6020B	Boron	0.021J	mg/L	0.040	08/31/21 15:59	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	08/31/21 15:59	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Copper	0.0022J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	08/31/21 15:59	
EPA 6020B	Nickel	0.0016J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Selenium	0.017	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Silver	0.00084J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Zinc	0.026	mg/L	0.010	08/31/21 15:59	
SM 2540C-2011	Total Dissolved Solids	1660	mg/L	50.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/29/21 04:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	08/29/21 04:49	
EPA 300.0 Rev 2.1 1993	Sulfate	946	mg/L	22.0	08/29/21 14:31	
92557081002	**GWC-3R**					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	4.73	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	20.2	mg/L	1.0	08/26/21 14:13	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Barium	0.014	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	08/31/21 16:05	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/31/21 16:05	
EPA 6020B	Cobalt	0.010	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	08/31/21 16:05	
EPA 6020B	Selenium	0.017	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Zinc	0.011	mg/L	0.010	08/31/21 16:05	
SM 2540C-2011	Total Dissolved Solids	214	mg/L	10.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	08/29/21 05:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/29/21 05:05	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	3.0	08/29/21 14:46	
92557081004	**G-FB-1**					
EPA 6010D	Calcium	1.1	mg/L	1.0	08/26/21 14:35	
EPA 6020B	Boron	0.022J	mg/L	0.040	08/31/21 16:16	
SM 2540C-2011	Total Dissolved Solids	22.0	mg/L	10.0	08/25/21 19:42	D6
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/29/21 05:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	08/29/21 05:36	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557081005	**GWC-6R**					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	5.82	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	74.5	mg/L	1.0	08/26/21 14:40	
EPA 6020B	Barium	0.035	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Copper	0.00083J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	08/31/21 16:34	
EPA 6020B	Nickel	0.0012J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	08/31/21 16:34	
SM 2540C-2011	Total Dissolved Solids	682	mg/L	20.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	08/29/21 06:22	
EPA 300.0 Rev 2.1 1993	Sulfate	345	mg/L	8.0	08/29/21 15:32	M1
92557081006	**GWC-1R**					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	5.08	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	154	mg/L	1.0	08/26/21 14:44	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Barium	0.076	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Beryllium	0.00030J	mg/L	0.00050	08/31/21 16:39	
EPA 6020B	Boron	0.029J	mg/L	0.040	08/31/21 16:39	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	08/31/21 16:39	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Copper	0.00067J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/31/21 16:39	
EPA 6020B	Nickel	0.0028J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Selenium	0.019	mg/L	0.0050	08/31/21 16:39	
SM 2540C-2011	Total Dissolved Solids	1200	mg/L	20.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/29/21 07:08	
EPA 300.0 Rev 2.1 1993	Sulfate	675	mg/L	15.0	08/29/21 16:18	
92557081007	**GWC-4R**					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	5.46	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	56.2	mg/L	1.0	08/26/21 14:49	
EPA 6020B	Barium	0.040	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	08/31/21 16:45	
EPA 6020B	Boron	4.5	mg/L	0.040	08/31/21 16:45	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Lithium	0.00085J	mg/L	0.030	08/31/21 16:45	
EPA 6020B	Nickel	0.0026J	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Selenium	0.0046J	mg/L	0.0050	08/31/21 16:45	
SM 2540C-2011	Total Dissolved Solids	630	mg/L	20.0	08/25/21 19:43	
EPA 300.0 Rev 2.1 1993	Chloride	150	mg/L	3.0	08/29/21 16:33	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	08/29/21 16:33	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557081008	**GWC-2R**					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	4.96	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	45.8	mg/L	1.0	08/26/21 14:54	
EPA 6020B	Barium	0.033	mg/L	0.0050	08/31/21 16:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	08/31/21 16:51	
EPA 6020B	Boron	0.14	mg/L	0.040	08/31/21 16:51	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	08/31/21 16:51	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	08/31/21 16:51	
EPA 6020B	Lithium	0.0049J	mg/L	0.030	08/31/21 16:51	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	08/31/21 16:51	
SM 2540C-2011	Total Dissolved Solids	474	mg/L	10.0	08/25/21 19:43	
EPA 300.0 Rev 2.1 1993	Chloride	26.2	mg/L	1.0	08/29/21 07:39	
EPA 300.0 Rev 2.1 1993	Sulfate	223	mg/L	5.0	08/29/21 16:48	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-5R **Lab ID: 92557081001** Collected: 08/18/21 12:48 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 16:59		
pH	**4.76**	Std. Units			1		08/23/21 16:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**159**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 15:59	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 15:59	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 15:59	7440-39-3	
Beryllium	**0.0033**	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 15:59	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 15:59	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 15:59	7440-43-9	
Chromium	**0.0023J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 15:59	7440-47-3	
Cobalt	**0.00053J**	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 15:59	7440-48-4	
Copper	**0.0022J**	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 15:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 15:59	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 15:59	7439-98-7	
Nickel	**0.0016J**	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 15:59	7440-02-0	
Selenium	**0.017**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 15:59	7782-49-2	
Silver	**0.00084J**	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 15:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 15:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 15:59	7440-62-2	
Zinc	**0.026**	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 15:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1660**	mg/L	50.0	50.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		08/29/21 04:49	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		08/29/21 04:49	16984-48-8	
Sulfate	**946**	mg/L	22.0	11.0	22		08/29/21 14:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-3R **Lab ID: 92557081002** Collected: 08/18/21 17:12 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:00		
pH	**4.73**	Std. Units			1		08/23/21 17:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**20.2**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:13	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:05	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:05	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:05	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:05	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:05	7440-47-3	
Cobalt	**0.010**	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:05	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:05	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:05	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:05	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:05	7440-02-0	
Selenium	**0.017**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:05	7440-62-2	
Zinc	**0.011**	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**214**	mg/L	10.0	10.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		08/29/21 05:05	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		08/29/21 05:05	16984-48-8	
Sulfate	**114**	mg/L	3.0	1.5	3		08/29/21 14:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: G-EB-1 **Lab ID: 92557081003** Collected: 08/20/21 12:20 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:11	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:11	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:11	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:11	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:11	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:11	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:11	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:11	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:11	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/29/21 05:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 05:20	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 05:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: G-FB-1 **Lab ID: 92557081004** Collected: 08/18/21 12:40 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.1**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:35	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:16	7440-41-7	
Boron	**0.022J**	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:16	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:16	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:16	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:16	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:16	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:16	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:16	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:16	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:16	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**22.0**	mg/L	10.0	10.0	1		08/25/21 19:42		D6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		08/29/21 05:36	16887-00-6	
Fluoride	**0.098J**	mg/L	0.10	0.050	1		08/29/21 05:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 05:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-6R **Lab ID: 92557081005** Collected: 08/18/21 09:45 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:00		
pH	**5.82**	Std. Units			1		08/23/21 17:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**74.5**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:40	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:34	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:34	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:34	7440-48-4	
Copper	**0.00083J**	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:34	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:34	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:34	7439-98-7	
Nickel	**0.0012J**	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:34	7440-02-0	
Selenium	**0.0016J**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:34	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:34	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:34	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**682**	mg/L	20.0	20.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		08/29/21 06:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 06:22	16984-48-8	
Sulfate	**345**	mg/L	8.0	4.0	8		08/29/21 15:32	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-1R **Lab ID: 92557081006** Collected: 08/18/21 12:25 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:00		
pH	**5.08**	Std. Units			1		08/23/21 17:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**154**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:39	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:39	7440-38-2	
Barium	**0.076**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:39	7440-39-3	
Beryllium	**0.00030J**	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:39	7440-41-7	
Boron	**0.029J**	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:39	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:39	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:39	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:39	7440-48-4	
Copper	**0.00067J**	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:39	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:39	7439-98-7	
Nickel	**0.0028J**	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:39	7440-02-0	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1200**	mg/L	20.0	20.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/29/21 07:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:08	16984-48-8	
Sulfate	**675**	mg/L	15.0	7.5	15		08/29/21 16:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-4R **Lab ID: 92557081007** Collected: 08/18/21 14:25 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:00		
pH	**5.46**	Std. Units			1		08/23/21 17:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**56.2**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:49	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:45	7440-38-2	
Barium	**0.040**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:45	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:45	7440-41-7	
Boron	**4.5**	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:45	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:45	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:45	7439-92-1	
Lithium	**0.00085J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:45	7439-98-7	
Nickel	**0.0026J**	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:45	7440-02-0	
Selenium	**0.0046J**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:45	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:45	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**630**	mg/L	20.0	20.0	1		08/25/21 19:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**150**	mg/L	3.0	1.8	3		08/29/21 16:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:24	16984-48-8	
Sulfate	**118**	mg/L	3.0	1.5	3		08/29/21 16:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-2R **Lab ID: 92557081008** Collected: 08/18/21 16:30 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:00		
pH	**4.96**	Std. Units			1		08/23/21 17:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**45.8**	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:54	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:51	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:51	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:51	7440-41-7	
Boron	**0.14**	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:51	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:51	7440-47-3	
Cobalt	**0.00066J**	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:51	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:51	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:51	7439-92-1	
Lithium	**0.0049J**	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:51	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:51	7440-02-0	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:51	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:51	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:51	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:51	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**474**	mg/L	10.0	10.0	1		08/25/21 19:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**26.2**	mg/L	1.0	0.60	1		08/29/21 07:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:39	16984-48-8	
Sulfate	**223**	mg/L	5.0	2.5	5		08/29/21 16:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643161 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3374851 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/21 12:37	

LABORATORY CONTROL SAMPLE: 3374852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3374853 3374854

Parameter	Units	92555938008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	139	1	1	137	134	-232	-508	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643162
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3374855 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/31/21 14:14	
Arsenic	mg/L	ND	0.0050	0.0011	08/31/21 14:14	
Barium	mg/L	ND	0.0050	0.00067	08/31/21 14:14	
Beryllium	mg/L	ND	0.00050	0.000054	08/31/21 14:14	
Boron	mg/L	ND	0.040	0.0086	08/31/21 14:14	
Cadmium	mg/L	ND	0.00050	0.00011	08/31/21 14:14	
Chromium	mg/L	ND	0.0050	0.0011	08/31/21 14:14	
Cobalt	mg/L	ND	0.0050	0.00039	08/31/21 14:14	
Copper	mg/L	ND	0.0050	0.00050	08/31/21 14:14	
Lead	mg/L	ND	0.0010	0.00089	08/31/21 14:14	
Lithium	mg/L	ND	0.030	0.00073	08/31/21 14:14	
Molybdenum	mg/L	ND	0.010	0.00074	08/31/21 14:14	
Nickel	mg/L	ND	0.0050	0.00071	08/31/21 14:14	
Selenium	mg/L	ND	0.0050	0.0014	08/31/21 14:14	
Silver	mg/L	ND	0.0050	0.00044	08/31/21 14:14	
Thallium	mg/L	ND	0.0010	0.00018	08/31/21 14:14	
Vanadium	mg/L	ND	0.010	0.0019	08/31/21 14:14	
Zinc	mg/L	ND	0.010	0.0070	08/31/21 14:14	

LABORATORY CONTROL SAMPLE: 3374856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Silver	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

LABORATORY CONTROL SAMPLE: 3374856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.094	94	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3374857 3374858

Parameter	Units	92555938008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Barium	mg/L	0.27	0.1	0.1	0.36	0.35	89	86	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20	
Boron	mg/L	0.011J	1	1	0.90	0.92	89	91	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Copper	mg/L	ND	0.1	0.1	0.095	0.098	95	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Lithium	mg/L	0.0032J	0.1	0.1	0.096	0.099	93	96	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.098	98	97	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643872 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3378197 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/31/21 10:48	

LABORATORY CONTROL SAMPLE: 3378198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3378199 3378200

Parameter	Units	92557081001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0020	80	82	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 642674 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081001, 92557081002, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3372854 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/25/21 19:40	

LABORATORY CONTROL SAMPLE: 3372855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	409	102	90-111	

SAMPLE DUPLICATE: 3372856

Parameter	Units	92555948018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	682	726	6	10	

SAMPLE DUPLICATE: 3372857

Parameter	Units	92557081004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	22.0	15.0	38	10	D6

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643142
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081003

METHOD BLANK: 3374773 Matrix: Water
Associated Lab Samples: 92557081003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/26/21 19:22	

LABORATORY CONTROL SAMPLE: 3374774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3374775

Parameter	Units	92557073003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	391	407	4	10	

SAMPLE DUPLICATE: 3374776

Parameter	Units	92557089008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	144	7	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643665
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3377162 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/29/21 01:44	
Fluoride	mg/L	ND	0.10	0.050	08/29/21 01:44	
Sulfate	mg/L	ND	1.0	0.50	08/29/21 01:44	

LABORATORY CONTROL SAMPLE: 3377163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	46.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377164 3377165

Parameter	Units	92555948025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	61.0	59.7	122	119	90-110	2	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.1	3.1	126	123	90-110	2	10	M1
Sulfate	mg/L	ND	50	50	62.7	61.8	125	124	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377166 3377167

Parameter	Units	92557081005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	54.0	53.8	97	97	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	0	10	
Sulfate	mg/L	345	50	50	385	382	80	73	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557081001	GWC-5R				
92557081002	GWC-3R				
92557081005	GWC-6R				
92557081006	GWC-1R				
92557081007	GWC-4R				
92557081008	GWC-2R				
92557081001	GWC-5R	EPA 3010A	643161	EPA 6010D	643227
92557081002	GWC-3R	EPA 3010A	643161	EPA 6010D	643227
92557081003	G-EB-1	EPA 3010A	643161	EPA 6010D	643227
92557081004	G-FB-1	EPA 3010A	643161	EPA 6010D	643227
92557081005	GWC-6R	EPA 3010A	643161	EPA 6010D	643227
92557081006	GWC-1R	EPA 3010A	643161	EPA 6010D	643227
92557081007	GWC-4R	EPA 3010A	643161	EPA 6010D	643227
92557081008	GWC-2R	EPA 3010A	643161	EPA 6010D	643227
92557081001	GWC-5R	EPA 3005A	643162	EPA 6020B	643244
92557081002	GWC-3R	EPA 3005A	643162	EPA 6020B	643244
92557081003	G-EB-1	EPA 3005A	643162	EPA 6020B	643244
92557081004	G-FB-1	EPA 3005A	643162	EPA 6020B	643244
92557081005	GWC-6R	EPA 3005A	643162	EPA 6020B	643244
92557081006	GWC-1R	EPA 3005A	643162	EPA 6020B	643244
92557081007	GWC-4R	EPA 3005A	643162	EPA 6020B	643244
92557081008	GWC-2R	EPA 3005A	643162	EPA 6020B	643244
92557081001	GWC-5R	EPA 7470A	643872	EPA 7470A	643926
92557081002	GWC-3R	EPA 7470A	643872	EPA 7470A	643926
92557081003	G-EB-1	EPA 7470A	643872	EPA 7470A	643926
92557081004	G-FB-1	EPA 7470A	643872	EPA 7470A	643926
92557081005	GWC-6R	EPA 7470A	643872	EPA 7470A	643926
92557081006	GWC-1R	EPA 7470A	643872	EPA 7470A	643926
92557081007	GWC-4R	EPA 7470A	643872	EPA 7470A	643926
92557081008	GWC-2R	EPA 7470A	643872	EPA 7470A	643926
92557081001	GWC-5R	SM 2540C-2011	642674		
92557081002	GWC-3R	SM 2540C-2011	642674		
92557081003	G-EB-1	SM 2540C-2011	643142		
92557081004	G-FB-1	SM 2540C-2011	642674		
92557081005	GWC-6R	SM 2540C-2011	642674		
92557081006	GWC-1R	SM 2540C-2011	642674		
92557081007	GWC-4R	SM 2540C-2011	642674		
92557081008	GWC-2R	SM 2540C-2011	642674		
92557081001	GWC-5R	EPA 300.0 Rev 2.1 1993	643665		
92557081002	GWC-3R	EPA 300.0 Rev 2.1 1993	643665		
92557081003	G-EB-1	EPA 300.0 Rev 2.1 1993	643665		
92557081004	G-FB-1	EPA 300.0 Rev 2.1 1993	643665		
92557081005	GWC-6R	EPA 300.0 Rev 2.1 1993	643665		
92557081006	GWC-1R	EPA 300.0 Rev 2.1 1993	643665		
92557081007	GWC-4R	EPA 300.0 Rev 2.1 1993	643665		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557081008	**GWC-2R**	EPA 300.0 Rev 2.1 1993	643665		

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

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

Sample Condition Upon Receipt

Client Name: G-P Power

Project #:

WO# : 92557081

92557081

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

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

Date/Initials Person Examining Contents: 8/23/21 MC

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

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

Thermometer: ☐ IR Gun ID: 283

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.0 °C Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

Project #

WO# : 92557081

PM: NMG **Due Date: 09/03/21**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BPAZ-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass Jar, Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1	✓																	2	✓			
2		1	1			1																		2	✓			
3		1	1			1																		2	✓			
4		1	1			1																		2	✓			
5		1	1			1																		2	✓			
6		1	1			1																		2	✓			
7		1	1			1																		2	✓			
8		1	1			1																		2	✓			
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	Geoff Gay	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:		Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #		Pace Quote:	
Phone:	Fax:	Project Name:	Yates Gypsum Pond DG	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury: 7470A	Radium 226/228: 9315/9320	App I and II Metals: 6020B Sb, As, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
1	G-EB-1	WT	G																X	X	X	X	X	X	X		pH
2	G-FB-1	WT	G																X	X	X	X	X	X	X		pH
3	~~GWC-6R~~	WT	G																X	X	X	X	X	X	X		pH
4	GWC-5R	WT	G	08/18	1154	8/18	1248		5	X		X							X	X	X	X	X	X	X		pH 4.76
5	~~GWC-1R~~	WT	G																X	X	X	X	X	X	X		pH
6	GWC-3R	WT	G	08/18	1635	08/18	1712		5	X		X							X	X	X	X	X	X	X		pH 2.18
7	~~GWC-4R~~	WT	G																X	X	X	X	X	X	X		pH
8	~~GWC-2R~~	WT	G																X	X	X	X	X	X	X		pH
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis	8/20	1750		8/19/18	1752	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Ti)										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/20/18

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company	Georgia Power	Report To	Geoff Gay	Attention	Southern Co.
Address	Atlanta, GA	Copy To		Company Name	
				Address	
Email To	SCS Contacts	Purchase Order #		Pace Quote	
Phone	Fax	Project Name	Yates Gypsum Pond DG	Pace Project Manager	Kevin Herring/Nicole D'Oleo
Requested Due Date	10 Day	Project Number		Pace Profile #	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2540C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and II Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	pH
	Requested Analysis Filtered (Y/N)								Y/N																	
1	G-EB-1	WT	G	8/20	1220				5									X	X	X	X	X	X	X		
2	G-FB-1	WT	G	8/18	1240													X	X	X	X	X	X	X		
3	GWC-6R	WT	G	8/18	0945													X	X	X	X	X	X	X		pH 5.82
4	~~GWC-5R~~	WT	G															X	X	X	X	X	X	X		
5	GWC-1R	WT	G	8/18	1225				2									X	X	X	X	X	X	X		pH 5.08
6	~~GWC-5R~~	WT	G															X	X	X	X	X	X	X		
7	GWC-4R	WT	G	8/18	1425				5									X	X	X	X	X	X	X		pH 5.76
8	GWC-2R	WT	G	8/18	1630													X	X	X	X	X	X	X		pH 4.16
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	Arcadis	8/20	1730		8/21/12	1745	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

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

September 21, 2021

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

RE: Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Nicole D'Oleo

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

Enclosures

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

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

CERTIFICATIONS

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

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

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

SAMPLE SUMMARY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557052001	**GWC-5R**	Water	08/18/21 12:48	08/20/21 17:30
92557052002	**GWC-3R**	Water	08/18/21 17:12	08/20/21 17:30
92557052003	**G-EB-1**	Water	08/20/21 12:20	08/20/21 17:30
92557052004	**G-FB-1**	Water	08/18/21 12:40	08/20/21 17:30
92557052005	**GWC-6R**	Water	08/18/21 09:45	08/20/21 17:30
92557052006	**GWC-1R**	Water	08/18/21 12:25	08/20/21 17:30
92557052007	**GWC-4R**	Water	08/18/21 14:25	08/20/21 17:30
92557052008	**GWC-2R**	Water	08/18/21 16:30	08/20/21 17:30

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

SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92557052001	**GWC-5R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052002	**GWC-3R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052003	**G-EB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052004	**G-FB-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052005	**GWC-6R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052006	**GWC-1R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052007	**GWC-4R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052008	**GWC-2R**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557052001	**GWC-5R**					
EPA 9315	Radium-226	-0.00431 ± 0.139 (0.361) C:98% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.437 ± 0.373 (0.750) C:74% T:85%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.437 ± 0.512 (1.11)	pCi/L		09/21/21 16:28	
92557052002	**GWC-3R**					
EPA 9315	Radium-226	0.0312 ± 0.114 (0.284) C:91% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.513 ± 0.367 (0.709) C:74% T:86%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.544 ± 0.481 (0.993)	pCi/L		09/21/21 16:28	
92557052003	**G-EB-1**					
EPA 9315	Radium-226	0.00652 ± 0.118 (0.310) C:92% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.463 ± 0.437 (0.900) C:73% T:86%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.470 ± 0.555 (1.21)	pCi/L		09/21/21 16:28	
92557052004	**G-FB-1**					
EPA 9315	Radium-226	0.0696 ± 0.112 (0.249) C:97% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.438 ± 0.385 (0.782) C:73% T:90%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.508 ± 0.497 (1.03)	pCi/L		09/21/21 16:28	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557052005	**GWC-6R**					
EPA 9315	Radium-226	0.0147 ± 0.104 (0.270) C:90% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.337 ± 0.359 (0.748) C:71% T:90%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.352 ± 0.463 (1.02)	pCi/L		09/21/21 16:28	
92557052006	**GWC-1R**					
EPA 9315	Radium-226	0.499 ± 0.211 (0.261) C:91% T:NA	pCi/L		09/20/21 14:29	
EPA 9320	Radium-228	0.214 ± 0.319 (0.688) C:75% T:92%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.713 ± 0.530 (0.949)	pCi/L		09/21/21 16:28	
92557052007	**GWC-4R**					
EPA 9315	Radium-226	0.0754 ± 0.158 (0.367) C:86% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.0339 ± 0.267 (0.621) C:74% T:86%	pCi/L		09/17/21 14:14	
Total Radium Calculation	Total Radium	0.109 ± 0.425 (0.988)	pCi/L		09/21/21 16:28	
92557052008	**GWC-2R**					
EPA 9315	Radium-226	0.423 ± 0.202 (0.275) C:90% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.160 ± 0.288 (0.630) C:76% T:90%	pCi/L		09/17/21 14:10	
Total Radium Calculation	Total Radium	0.583 ± 0.490 (0.905)	pCi/L		09/21/21 16:28	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-5R **Lab ID: 92557052001** Collected: 08/18/21 12:48 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00431 ± 0.139 (0.361) C:98% T:NA**	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.437 ± 0.373 (0.750) C:74% T:85%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.437 ± 0.512 (1.11)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-3R **Lab ID: 92557052002** Collected: 08/18/21 17:12 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0312 ± 0.114 (0.284) C:91% T:NA**	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.513 ± 0.367 (0.709) C:74% T:86%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.544 ± 0.481 (0.993)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: G-EB-1 **Lab ID: 92557052003** Collected: 08/20/21 12:20 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00652 ± 0.118 (0.310) C:92% T:NA**	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.463 ± 0.437 (0.900) C:73% T:86%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.470 ± 0.555 (1.21)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: G-FB-1 **Lab ID: 92557052004** Collected: 08/18/21 12:40 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0696 ± 0.112 (0.249) C:97% T:NA**	pCi/L	09/20/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.438 ± 0.385 (0.782) C:73% T:90%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.508 ± 0.497 (1.03)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-6R **Lab ID: 92557052005** Collected: 08/18/21 09:45 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0147 ± 0.104 (0.270) C:90% T:NA**	pCi/L	09/20/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.337 ± 0.359 (0.748) C:71% T:90%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.352 ± 0.463 (1.02)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-1R **Lab ID: 92557052006** Collected: 08/18/21 12:25 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.499 ± 0.211 (0.261) C:91% T:NA**	pCi/L	09/20/21 14:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.214 ± 0.319 (0.688) C:75% T:92%**	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.713 ± 0.530 (0.949)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-4R **Lab ID: 92557052007** Collected: 08/18/21 14:25 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0754 ± 0.158 (0.367) C:86% T:NA**	pCi/L	09/20/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0339 ± 0.267 (0.621) C:74% T:86%**	pCi/L	09/17/21 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.109 ± 0.425 (0.988)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Sample: GWC-2R **Lab ID: 92557052008** Collected: 08/18/21 16:30 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.423 ± 0.202 (0.275) C:90% T:NA**	pCi/L	09/20/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.160 ± 0.288 (0.630) C:76% T:90%**	pCi/L	09/17/21 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.583 ± 0.490 (0.905)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

QC Batch: 463385
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

METHOD BLANK: 2237277 Matrix: Water
Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.335 ± 0.316 (0.643) C:71% T:87%	pCi/L	09/17/21 11:13	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

QC Batch: 463386
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

METHOD BLANK: 2237280 Matrix: Water
Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00416 ± 0.0925 (0.250) C:100% T:NA	pCi/L	09/20/21 08:37	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557052001	**GWC-5R**	EPA 9315	463386		
92557052002	**GWC-3R**	EPA 9315	463386		
92557052003	**G-EB-1**	EPA 9315	463386		
92557052004	**G-FB-1**	EPA 9315	463386		
92557052005	**GWC-6R**	EPA 9315	463386		
92557052006	**GWC-1R**	EPA 9315	463386		
92557052007	**GWC-4R**	EPA 9315	463386		
92557052008	**GWC-2R**	EPA 9315	463386		
92557052001	**GWC-5R**	EPA 9320	463385		
92557052002	**GWC-3R**	EPA 9320	463385		
92557052003	**G-EB-1**	EPA 9320	463385		
92557052004	**G-FB-1**	EPA 9320	463385		
92557052005	**GWC-6R**	EPA 9320	463385		
92557052006	**GWC-1R**	EPA 9320	463385		
92557052007	**GWC-4R**	EPA 9320	463385		
92557052008	**GWC-2R**	EPA 9320	463385		
92557052001	**GWC-5R**	Total Radium Calculation	464971		
92557052002	**GWC-3R**	Total Radium Calculation	464971		
92557052003	**G-EB-1**	Total Radium Calculation	464971		
92557052004	**G-FB-1**	Total Radium Calculation	464971		
92557052005	**GWC-6R**	Total Radium Calculation	464971		
92557052006	**GWC-1R**	Total Radium Calculation	464971		
92557052007	**GWC-4R**	Total Radium Calculation	464971		
92557052008	**GWC-2R**	Total Radium Calculation	464971		

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

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

Sample Condition Upon Receipt

Client Name: G+A Power

Project #:

WO# : 92557052

92557052

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

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

Date/Initials Person Examining Contents: 8/23/21 CM

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

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

Thermometer: ☑ IR Gun ID: 0.83 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 2.0

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

Project #

WO# : 92557052

PM: NMG **Due Date: 09/13/21**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																	2	1				
2		1	1			1																	2	1				
3		1	1			1																	2	1				
4		1	1			1																	2	1				
5		1	1			1																	2	1				
6		1	1			1																	2	1				
7		1	1			1																	2	1				
8		1	1			1																	2	1				
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	Geoff Gay	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:		Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates Gypsum Pond DG	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 (9315/9320)	App I and II Metals 6020B (Ca, Ni, Ag, Tl, V, Z)	Residual Chlorine (Y/N)	pH
1	G-EB-1	WT	G																x	x	x	x	x	x	x		
2	G-FB-1	WT	G																x	x	x	x	x	x	x		
3	~~GWC-6R~~	WT	G																x	x	x	x	x	x	x		
4	GWC-5R	WT	G	08/16	1154	08/18	1248		5	X		X							x	x	x	x	x	x	x		pH 4.76
5	~~GWC-1R~~	WT	G																x	x	x	x	x	x	x		
6	GWC-3R	WT	G	08/18	1435	08/18	1512		5	X		X							x	x	x	x	x	x	x		pH 2.38
7	~~GWC-4R~~	WT	G																x	x	x	x	x	x	x		
8	~~GWC-2R~~	WT	G																x	x	x	x	x	x	x		
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	/Atcadis	8/20	1730		8/20/21	1730	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 8/20/21

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: Geoff Gay	Attention: Southern Co.
Address: Atlanta, GA	Copy To:	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates Gypsum Pond DG	Pace Project Manager: Kevin Herring/Nicole D'Oleo
Requested Due Date: 10 Day	Project Number:	Pace Profile #: 10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS: 2540C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury: 7470A	Radium 226/228: 9315/9320	App I and II Metals: 6020B Cu, Ni, Ag, Tl, V, Zn					Residual Chlorine (Y/N)	
1	G-EB-1	WT	G	8/20	1220				5										x	x	x	x	x	x	x				pH: —
2	G-FB-1	WT	G	8/18	1240				5										x	x	x	x	x	x	x				pH: —
3	GWC-6R	WT	G	8/18	0945				5										x	x	x	x	x	x	x				pH: 5.82
4	~~GWC-5R~~	WT	G																x	x	x	x	x	x	x				pH: —
5	GWC-1R	WT	G	8/18	1225				5										x	x	x	x	x	x	x				pH: 5.08
6	~~GWC-3R~~	WT	G																x	x	x	x	x	x	x				pH: —
7	GWC-4R	WT	G	8/18	1425				5										x	x	x	x	x	x	x				pH: 5.46
8	GWC-2R	WT	G	8/18	1630				5										x	x	x	x	x	x	x				pH: 4.16
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/20	1730		8/20/12	1730	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

Upgradient Well Data

August 2021

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92557070 and 92557089

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

Report #43277R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92557070 and 92557089 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
UP-DUP-1	92557070001 92557089001	Water	8/20/2021	GWA-2	X	X	X
GWA-2	92557070002 92557089002	Water	8/20/2021		X	X	X
YGWA-14S	92557070003 92557089003	Water	8/19/2021		X	X	X
UP-DUP-2	92557070004 92557089004	Water	8/19/2021	YGWA-14S	X	X	X
YGWA-1D	92557070005 92557089005	Water	8/19/2021		X	X	X
YGWA-1I	92557070006 92557089006	Water	8/19/2021		X	X	X
YGWA-3D	92557070007 92557089007	Water	8/19/2021		X	X	X
YGWA-47	92557070008 92557089008	Water	8/19/2021		X	X	X
YGWA-30I	92557070009 92557089009	Water	8/19/2021		X	X	X
YGWA-39	92557719005 92557720005	Water	8/26/2021		X	X	X
UP-FB-2	92558240001 92558254001	Water	8/26/2021		X	X	X
YGWA-4I	92558240002 92558254002	Water	8/26/2021		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-5I	92558240003 92558254003	Water	8/26/2021		X	X	X
UP-DUP-3	92558240004 92558254004	Water	8/26/2021	YGWA-5I	X	X	X
YGWA-5D	92558240005 92558254005	Water	8/26/2021		X	X	X
YGWA-17S	92558240006 92558254006	Water	8/27/2021		X	X	X
YGWA-18S	92558240007 92558254007	Water	8/26/2021		X	X	X
YGWA-18I	92558240008 92558254008	Water	8/27/2021		X	X	X
YGWA-20S	92558240009 92558254009	Water	8/27/2021		X	X	X
YGWA-21I	92558240014 92558254014	Water	9/1/2021		X	X	X
YGWA-40	92559523001 92559527001	Water	9/3/2021		X	X	X
YGWA-2I	92558238001 92558251001	Water	8/27/2021		X	X	X
YGWA-3I	92558238002 92558251002	Water	8/27/2021		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) and alkalinity analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B, SM2540C, and SM2320B; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if

it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

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

The MS/MSD analysis performed using sample YGWA-4I in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-5D in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample UP-FB-2 in association with SW-846 6010D and SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Calcium	26.5	26.0	1.9%
	Barium	0.036	0.033	8.7%
	Cobalt	0.074	0.065	12.9%
	Copper	0.0012 J	0.00087 J	AC
	Lithium	0.0028 J	0.0027 J	
	Nickel	0.014	0.013	
	Zinc	0.014	0.012	
YGWA-14S / UP-DUP-2	Calcium	1.2	1.3	AC
	Barium	0.0077	0.0080	
	Beryllium	0.00022 J	0.00020 J	
	Boron	0.018 J	0.017 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-5I / UP-DUP-3	Calcium	2.5	2.5	AC
	Barium	0.019	0.018	
	Lithium	0.0032 J	0.0031 J	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YGWA-40 in association with alkalinity analysis exhibited recoveries within the control limits.

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

The MS/MSD analysis performed on sample locations YGWA-2A and YGWA-2S in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-2A	Chloride	> 125%	> 125%
	Fluoride		
	Sulfate		
YGWA-20S	Chloride	> 125%	> 125%
	Fluoride		
	Sulfate		

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples YGWA-47, YGWA-5D, and YGWA-2I in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with alkalinity and anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	TDS	254	245	3.6%
	Chloride	5.2	5.2	0.0%
	Fluoride	0.060 J	0.079 J	AC
	Sulfate	121	120	0.8%
YGWA-14S / UP-DUP-2	TDS	54.0	55.0	1.8%
	Chloride	5.0	5.0	AC
	Sulfate	6.7	6.7	0.0%
YGWA-5I / UP-DUP-3	TDS	86.0	80.0	7.2%
	Chloride	4.3	4.3	AC
	Sulfate	2.4	2.5	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the reporting limit (RL) of 1 pCi/L.

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

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

Laboratory duplicate analysis was performed using sample UP-DUP-1 in association with SW-846 9315 analysis. Since the activities were less than the MDC in the parent sample and laboratory duplicate sample, the evaluation of the laboratory duplicate samples is not applicable.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

For all analyses in soil matrices, data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Radium-226	0.0454 ± 0.104	0.325 ± 0.195	AC
	Radium-228	0.483 ± 0.364	0.333 ± 0.342	
	Total Radium	0.528 ± 0.468	0.658 ± 0.537	
YGWA-14S / UP-DUP-2	Radium-226	0.00466 ± 0.157	0.111 ± 0.167	AC
	Radium-228	0.781 ± 0.436	1.08 ± 0.491	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Total Radium	0.786 ± 0.593	1.19 ± 0.658	
YGWI-5I / UP-DUP-3	Radium-226	0.173 ± 0.181	0.101 ± 0.197	AC
	Radium-228	0.625 ± 0.402	0.620 ± 0.425	
	Total Radium	0.798 ± 0.583	0.721 ± 0.622	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

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

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- GWA-2, YGWA-1I, YGWA-47, YGWA-30I, UP-FB-2, YGWA-5I, UP-DUP-3, YGWA-18S, YGWA-18I, and YGWA-2I – Radium-226, Radium-228, and total Radium
- YGWA-14S and YGWA-1D – Radium-226 and total Radium
- UP-DUP-1, YGWA-39, YGWA-4I, YGWA-17S, YGWA-20S, and YGWA-40 – Radium-228 and total Radium
- UP-DUP-2 – Radium-226
- YGWA-3I – Radium-228

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 23, 2021

PEER REVIEW: Dennis Capria

DATE: December 2, 2021

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To: SCS and Arcadis Contacts	Purchase Order #: UPGRADIENT	Pace Quote:
Phone: Fax:	Project Name: ~~Yates Gypsum Pond Groundwater~~	Pace Project Manager: Kevin Herring/Nicole D'Oleo
Requested Due Date: 10 Day	Project Number:	Pace Profile #: 10840

Regulatory Agency: CCR

State / Location: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and III Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
1	UP-DUP-1	WT	G	8/20	—														x	x	x	x	x	x	x		pH 5.86
2	GWA-2	WT	G	8/20	1200				5	✓		✓							x	x	x	x	x	x	x		pH 5.36
3		WT	G																								
4		WT	G																								
5		WT	G																								
6		WT	G																								
7		WT	G																								
8		WT	G																								
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/20	1730		8/20/21	1745	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 8/20/21

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 4

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:	
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:	
Suite 900, Atlanta, GA 30339		Address:	Regulatory Agency
Email:	Purchase Order #:	Pace Quote:	
Phone: Fax:	Project Name: ~~Yates 316-2~~ UG	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location
Requested Due Date:	Project #:	Pace Profile #: 10840	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-2-EB-1~~	WT		~~8/20~~	1070	35			5	✓		✓							X	X	X	X	—
2	~~AP-2-EB-2~~	WT		—		—													X	X	X	X	
3	AP-2-FB-1	WT		8/19	1530	35			5	✓		✓							X	X	X	X	—
4	~~AP-2-LRB~~	WT																	X	X	X	X	
5	~~YGWA-1I~~	WT																	X	X	X	X	
6	~~YGWA-1D~~	WT																	X	X	X	X	
7	~~YGWA-2I~~	WT																	X	X	X	X	
8	~~MGWA-3I~~	WT																	X	X	X	X	
9	~~YGWA-3D~~	WT																	X	X	X	X	
10	YGWA-14S	WT		8/19	~~1332~~	100			4	✓		✓							X	X	X	X	Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							X	X	X	X	—
12	~~YGWA-9S~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		8/20	1730		8/21/12	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/12

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS and Arcadis Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	~~Yates AP-2~~ ~~CDG~~	Pace Project Manager:	Kevin Herring/Nicole D'oleo
Requested Due Date:	10 Day	Project Number:	UPGRADIENT	Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl) ~~OR Metals~~	Radium 226/228 9315/9320	Residual Chlorine (Y/N)	
1	~~AP-2-EB-1~~	WT	G																x	x	x	x	x		pH
2	~~AP-2 EB-2~~	WT	G																x	x	x	x	x		pH
3	~~AP-2 FB-1~~	WT	G																x	x	x	x	x		pH
4	~~AP-2 FB-2~~	WT	G																x	x	x	x	x		pH
5	~~YGWC-28S~~ YGWA-1D	WT	G	8/19	1110														x	x	x	x	x		pH 6.32
6	~~YGWC-28I~~ YGWA-1I	WT	G	8/19	1249														x	x	x	x	x		pH 6.38
7	~~AP-2 DUP-1~~ YGWA-3D	WT	G	8/19	1445														x	1x	x	x	x		pH 5.34
8	~~[illegible]~~	WT	G																x	x	x	x	x		pH
9	~~YGWC-27I~~	WT	G																x	x	x	x	x		pH
10	~~YGWC-28S~~	WT	G	~~8/20~~	~~1124~~														x	x	x	x	x		pH
11	~~YGWC-28I~~	WT	G																x	x	x	x	x		pH
12	~~YGWC-29I~~	WT	G	~~8/20~~	~~938~~														x	x	x	x	x		pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/20	1730	[signature]	8/20/21	1740	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	[redacted]-1 (upgradient)	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals (B & Ca)	App IV Metals	Mercury: 7470A	Radium 228/226: 9315/9320	Residual Chlorine (Y/N)	
										Requested Analysis Filtered (Y/N)																
1	YGWA-47	WT	G	08/19	1005	08/19	1026			X		X							X	X	X	X	X	X		pH 5.50
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/20	1730		8/20	1730	5.0	Y	N	Y
App III Metals: Boron 6020B Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency
CCR
State / Location
GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 228/226: 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)				Residual Chlorine (Y/N)
1	~~YGWA-24~~	WT	G																										
2	YGWA-39	WT	G	8-26-21	1230					2		3							x	x	x	x	x			x			pH:
3	~~YGWA-40~~	WT	G																x	x	x	x	x			x			pH 6.91
4		WT	G																x	x	x	x	x			x			pH:
5		WT	G																										
6		WT	G																										
7		WT	G																										
8		WT	G																										
9		WT	G																										
10		WT	G																										
11		WT	G																										
12		WT	G																										

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Ssulfate)	Kate Pipkiewicz / Arcadis	8-26-21	1410		8/26	1410	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640	Charlie Hunter	8/27/21	1640	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co) Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kate Pipkiewicz

SIGNATURE of SAMPLER: Kate Pipkiewicz DATE Signed: 8-26-21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Yates AP-2 (upgradient)
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228: 9315/9320	Residual Chlorine (Y/N)
	YGWA-2I	WT	G	8/27/24	1133				4	X		X							X	X	X	X	X	pH 7.14
	YGWA-3I	WT	G	8/27/24	0955				4	X		X							X	X	X	X	X	pH 7.39

Requested Analysis Filtered (Y/N)

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Relinquished by / Arcadis	8/27/24	1440		8/27	1440
App III Metals: Boron 6020B, Ca 6010D		8/27	1640		8/27	1640
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)						

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesnut

SIGNATURE of SAMPLER:

DATE Signed:

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Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	AMA-EB-1	WT																	X	X	X	X			
2	AMA EB-2	WT																	X	X	X	X			
3	AMA-FB-1	WT																	X	X	X	X			
4	AMA-FB-2	WT																	X	X	X	X			
5	UP-EB-1	WT																	X	X	X	X			
6	UP-FB-1	WT		8/26/21	1710				5	X		X							X	X	X	X			
7	~~UP-EB-2~~	WT																	X	X	X	X			
8	UP-FB-2	WT																	X	X	X	X			
9	YGWA-4I	WT		8/26/21	1124				5	X		X							X	X	X	X			5.82
10	YGWA-5I	WT		8/26/21	1628				5	X		X							X	X	X	X			5.51 SU
11	UP-DUP-3	WT		8/26/21	-				5	X		X							X	X	X	X			-
12	YGWA-5D	WT		8/26/21	1355				5	X		X							X	X	X	X			7.16 SU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	8/27/21	1640	[signature]	8/27/21	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/21

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

Pace Analytical
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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.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AMA	Pace Project Manager:	nicole.d'olac@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
13	YGWA-17S	WT		8/27	1045				5	✓		✓							x	x	x	x			Ph: 5.27
14	~~YGWA-18S~~ JS YGWA-18S	WT		8/26	1535				5	✓		✓							x	x	x	x			Ph: 4.40
15	YGWA-18I	WT		8/27	0935				5	✓		✓							x	x	x	x			Ph: 5.40
16	YGWA-20S	WT		8/27	1310				5	✓		✓							x	x	x	x			Ph: 5.37
17	YGWA-21I	WT																	x	x	x	x			
18	YGWC-23S	WT																	x	x	x	x	x		
19	YGWC-24SA	WT																	x	x	x	x			
20	AMA-DUP-1	WT																	x	x	x	x			
21	YGWC-36A	WT																	x	x	x	x	x		
22	YGWC-49	WT																	x	x	x	x			
23	AMA-EB-1			8/26	1600				5										x	x	x	x			
24	AMA-EB-2			8/27	1340				5										x	x	x	x			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	8/27			8/27/24	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 8/27/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	~~SCS Contacts~~ Becky Steed
Copy To:	~~Arcadis Contacts~~
Purchase Order #:	
Project Name:	Yates AMA-[redacted]
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	CCR
State / Location	GA

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 9315/9320	Alkalinity	Cations (Na, K, Mg, Ca)	Residual Chlorine (Y/N)
1	~~UP-EB-1~~ JJ	WT	G																x	x	x	x	x			--
2	~~UP-FB-1~~ JS	WT	G																x	x	x	x	x			--
3	~~UP-EB-2~~ JS	WT	G																x	x	x	x	x			--
4	~~UP-FB-2~~ JS	WT	G																x	x	x	x	x			--
5	~~YGWA-4I~~ JS	WT	G																x	x	x	x	x	x		pH:
6	~~YGWA-5I~~ JS	WT	G																x	x	x	x	x			pH:
7	~~UP-DUP-3~~ JS	WT	G		--														x	x	x	x	x			pH:
8	~~YGWA-6D~~ JS	WT	G																x	x	x	x	x	x		pH:
9	~~YGWA-17S~~ JS	WT	G																x	x	x	x	x			pH:
10	~~YGWA-18S~~ JS AMA-DUP-1	WT	G	9/1	←				5	✓		✓							x	x	x	x	x	x		pH:
11	~~YGWA-18I~~ JS YGWC-245A	WT	G	9/1	1025				5	✓		✓							x	x	x	x	x	x		pH: 5.22
12	~~YGWA-20S~~ YGWA-21I	WT	G	9/1	1440				5	✓		✓							x	x	x	x	x			pH: 6.65

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl,F, sulfate)	/Arcadis	9/2/21	1530	/Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 6010D		9/2/21	1702	/Pace	9/2/21	1702	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

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

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates R6	Pace Project Manager:	nicole.d'olec@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)
1	~~YGWA-56~~	WT																	X	X		X	X	X	
2	YGWA-40	WT		9/3/21	1027														X	X		X	X	X	4.25
3	~~YGWC-38~~	WT																	X	X		X	X	X	
4	~~YGWC-41~~	WT																	X	X		X	X	X	
5	~~AMW-DUP-2~~	WT																	X	X			X		
6	~~YGWC-42~~	WT																	X	X		X	X	X	
7	~~YGWC-48~~	WT																	X	X		X	X	X	
8	~~AP-1 EB-1~~	WT																			X				
9	~~AP-1 FB-1~~	WT																			X				
10	~~YGWA-47~~	WT																			X				
11	~~YGWC-52~~	WT																			X				
12	~~YGWC-44~~	WT																			X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] AES	9/3/21	1730	[signature] / [signature]	9/3/21	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chost

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/3/21

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92557070	No qualifiers assigned						
92557089	YGWA-2I	EPA 300.0	Chloride	0.99	mg/L	J	MS %R > UCL, MSD %R >UCL
			Fluoride	0.12	mg/L	J	MS %R > UCL, MSD %R >UCL
			Sulfate	16.7	mg/L	J	MS %R > UCL, MSD %R >UCL
	YGWA-20S	EPA 300.0	Chloride	2.8	mg/L	J	MS %R > UCL, MSD %R >UCL

Abbreviations:
%R = percent recovery
mg/L = milligrams per liter
MS = matrix spike
MSD = metrix spike duplicate
UCL = upper control limit

Qualifiers:
J = estimated result

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

October 12, 2021

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

RE: Project: YATES UPGRADIENT
Pace Project No.: 92557089

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 20, 2021 and September 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

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

Enclosures

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

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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

SAMPLE SUMMARY

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557089001	**UP-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557089002	**GWA-2**	Water	08/20/21 12:00	08/20/21 17:30
92557089003	**YGWA-14S**	Water	08/19/21 11:00	08/20/21 17:30
92557089004	**UP-DUP-2**	Water	08/19/21 00:00	08/20/21 17:30
92557089005	**YGWA-1D**	Water	08/19/21 11:10	08/20/21 17:30
92557089006	**YGWA-1I**	Water	08/19/21 12:49	08/20/21 17:30
92557089007	**YGWA-3D**	Water	08/19/21 14:45	08/20/21 17:30
92557089008	**YGWA-47**	Water	08/19/21 10:26	08/20/21 17:30
92557089009	**YGWA-30I**	Water	08/19/21 12:20	08/20/21 17:30
92557720005	**YGWA-39**	Water	08/26/21 12:30	08/27/21 16:40
92558251001	**YGWA-2I**	Water	08/27/21 11:33	08/27/21 16:40
92558251002	**YGWA-3I**	Water	08/27/21 09:55	08/27/21 16:40
92558254001	**UP-FB-2**	Water	08/26/21 17:10	08/27/21 16:40
92558254002	**YGWA-4I**	Water	08/26/21 11:29	08/27/21 16:40
92558254003	**YGWA-5I**	Water	08/26/21 16:28	08/27/21 16:40
92558254004	**UP-DUP-3**	Water	08/26/21 00:00	08/27/21 16:40
92558254005	**YGWA-5D**	Water	08/26/21 13:35	08/27/21 16:40
92558254006	**YGWA-17S**	Water	08/27/21 10:45	08/27/21 16:40
92558254007	**YGWA-18S**	Water	08/26/21 15:35	08/27/21 16:40
92558254008	**YGWA-18I**	Water	08/27/21 09:35	08/27/21 16:40
92558254009	**YGWA-20S**	Water	08/27/21 13:10	08/27/21 16:40
92558254014	**YGWA-21I**	Water	09/01/21 14:40	09/02/21 17:02
92559527001	**YGWA-40**	Water	09/03/21 10:20	09/03/21 17:30

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557089001	UP-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089002	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089003	YGWA-14S	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089004	UP-DUP-2	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089005	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089006	YGWA-1I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089007	YGWA-3D	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089008	YGWA-47	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089009	YGWA-30I	EPA 6010D	KH	1
		EPA 6020B	CW1	12

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557720005	**YGWA-39**	EPA 6010D	DRB	4
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558251001	**YGWA-2I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558251002	**YGWA-3I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254001	**UP-FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254002	**YGWA-4I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254003	**YGWA-5I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254004	**UP-DUP-3**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254005	**YGWA-5D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254006	**YGWA-17S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254007	**YGWA-18S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254008	**YGWA-18I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254009	**YGWA-20S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254014	**YGWA-21I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92559527001	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	ECH	3
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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

SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089001	**UP-DUP-1**					
EPA 6010D	Calcium	26.0	mg/L	1.0	08/31/21 16:52	
EPA 6020B	Barium	0.033	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Cobalt	0.065	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Copper	0.00087J	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	08/31/21 16:38	
EPA 6020B	Nickel	0.013	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Zinc	0.012	mg/L	0.010	08/31/21 16:38	
SM 2540C-2011	Total Dissolved Solids	245	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/31/21 01:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	08/31/21 01:54	
EPA 300.0 Rev 2.1 1993	Sulfate	120	mg/L	3.0	08/31/21 15:04	
92557089002	**GWA-2**					
	Performed by	CUSTOMER			08/23/21 17:45	
	pH	5.86	Std. Units		08/23/21 17:45	
EPA 6010D	Calcium	26.5	mg/L	1.0	08/31/21 16:56	
EPA 6020B	Barium	0.036	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Cobalt	0.074	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	08/31/21 16:44	
EPA 6020B	Nickel	0.014	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Zinc	0.014	mg/L	0.010	08/31/21 16:44	
SM 2540C-2011	Total Dissolved Solids	254	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/31/21 02:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	08/31/21 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	121	mg/L	3.0	08/31/21 15:19	
92557089003	**YGWA-14S**					
	Performed by	CUSTOMER			08/23/21 17:45	
	pH	7.32	Std. Units		08/23/21 17:45	
EPA 6010D	Calcium	1.2	mg/L	1.0	08/31/21 17:01	
EPA 6020B	Barium	0.0077	mg/L	0.0050	08/31/21 16:49	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	08/31/21 16:49	
EPA 6020B	Boron	0.018J	mg/L	0.040	08/31/21 16:49	
SM 2540C-2011	Total Dissolved Solids	54.0	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	08/31/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	08/31/21 02:24	
92557089004	**UP-DUP-2**					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/31/21 17:06	
EPA 6020B	Barium	0.0080	mg/L	0.0050	08/31/21 16:55	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	08/31/21 16:55	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/31/21 16:55	
SM 2540C-2011	Total Dissolved Solids	55.0	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	08/31/21 02:39	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	08/31/21 02:39	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089005	**YGWA-1D**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	6.32	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	14.2	mg/L	1.0	08/31/21 17:11	
EPA 6020B	Barium	0.0065	mg/L	0.0050	08/31/21 17:01	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	08/31/21 17:01	
EPA 6020B	Lithium	0.013J	mg/L	0.030	08/31/21 17:01	
EPA 6020B	Molybdenum	0.0083J	mg/L	0.010	08/31/21 17:01	
SM 2540C-2011	Total Dissolved Solids	105	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/31/21 03:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	08/31/21 03:24	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	08/31/21 03:24	
92557089006	**YGWA-1I**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	6.38	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	2.0	mg/L	1.0	08/31/21 17:16	
EPA 6020B	Barium	0.0079	mg/L	0.0050	08/31/21 17:07	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	08/31/21 17:07	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/31/21 17:07	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	08/31/21 17:07	
SM 2540C-2011	Total Dissolved Solids	44.0	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/31/21 03:39	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	08/31/21 03:39	
92557089007	**YGWA-3D**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	5.34	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	28.1	mg/L	1.0	08/31/21 17:20	
EPA 6020B	Barium	0.0052	mg/L	0.0050	08/31/21 17:38	
EPA 6020B	Lithium	0.023J	mg/L	0.030	08/31/21 17:38	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/31/21 17:38	
SM 2540C-2011	Total Dissolved Solids	144	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/31/21 03:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.47	mg/L	0.10	08/31/21 03:54	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	08/31/21 03:54	
92557089008	**YGWA-47**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	5.50	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	9.6	mg/L	1.0	08/31/21 18:00	
EPA 6020B	Barium	0.029	mg/L	0.0050	08/31/21 17:44	
EPA 6020B	Boron	0.011J	mg/L	0.040	08/31/21 17:44	
EPA 6020B	Cobalt	0.00099J	mg/L	0.0050	08/31/21 17:44	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	08/31/21 17:44	
SM 2540C-2011	Total Dissolved Solids	134	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	08/31/21 04:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089008	**YGWA-47**					
EPA 300.0 Rev 2.1 1993	Sulfate	52.6	mg/L	1.0	08/31/21 04:39	
92557089009	**YGWA-30I**					
	Performed by	CUSTOMER			09/07/21 08:26	
	Collected Time	5.43			09/07/21 08:26	
EPA 6010D	Calcium	1.2	mg/L	1.0	08/31/21 18:05	
EPA 6020B	Barium	0.0071	mg/L	0.0050	08/31/21 17:50	
EPA 6020B	Cobalt	0.0052	mg/L	0.0050	08/31/21 17:50	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	08/31/21 17:50	
SM 2540C-2011	Total Dissolved Solids	50.0	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	08/31/21 04:54	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	08/31/21 04:54	
92557720005	**YGWA-39**					
	Performed by	CUSTOMER			08/30/21 09:54	
	pH	6.91	Std. Units		08/30/21 09:54	
EPA 6010D	Potassium	6.6	mg/L	0.20	09/09/21 15:23	
EPA 6010D	Sodium	29.6	mg/L	1.0	09/09/21 15:23	
EPA 6010D	Calcium	14.1	mg/L	1.0	09/09/21 15:23	
EPA 6010D	Magnesium	19.1	mg/L	0.050	09/09/21 15:23	
EPA 6020B	Barium	0.038	mg/L	0.0050	09/09/21 19:44	
EPA 6020B	Boron	0.095	mg/L	0.040	09/09/21 19:44	
EPA 6020B	Cadmium	0.00049J	mg/L	0.00050	09/09/21 19:44	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	09/09/21 19:44	
EPA 6020B	Lithium	0.0082J	mg/L	0.030	09/09/21 19:44	
EPA 6020B	Molybdenum	0.0027J	mg/L	0.010	09/09/21 19:44	
SM 2540C-2011	Total Dissolved Solids	249	mg/L	10.0	08/31/21 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	09/06/21 03:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	09/06/21 03:00	
EPA 300.0 Rev 2.1 1993	Sulfate	19.2	mg/L	1.0	09/06/21 03:00	
92558251001	**YGWA-2I**					
	Performed by	CUSTOMER			08/30/21 09:57	
	pH	7.14	Std. Units		08/30/21 09:57	
EPA 6010D	Calcium	22.6	mg/L	1.0	09/01/21 14:45	M1
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/09/21 19:50	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	09/09/21 19:50	
EPA 6020B	Molybdenum	0.0048J	mg/L	0.010	09/09/21 19:50	
SM 2540C-2011	Total Dissolved Solids	150	mg/L	10.0	08/31/21 16:51	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	09/06/21 03:16	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/06/21 03:16	M1
EPA 300.0 Rev 2.1 1993	Sulfate	16.7	mg/L	1.0	09/06/21 03:16	M1
92558251002	**YGWA-3I**					
	Performed by	CUSTOMER			08/30/21 09:57	
	pH	7.39	Std. Units		08/30/21 09:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558251002	**YGWA-3I**					
EPA 6010D	Calcium	24.7	mg/L	1.0	09/01/21 15:04	
EPA 6020B	Barium	0.0039J	mg/L	0.0050	09/09/21 19:55	
EPA 6020B	Lithium	0.026J	mg/L	0.030	09/09/21 19:55	
EPA 6020B	Molybdenum	0.0099J	mg/L	0.010	09/09/21 19:55	
SM 2540C-2011	Total Dissolved Solids	155	mg/L	10.0	08/31/21 16:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	09/06/21 04:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/06/21 04:03	
EPA 300.0 Rev 2.1 1993	Sulfate	18.2	mg/L	1.0	09/06/21 04:03	
92558254002	**YGWA-4I**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	5.82	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	7.6	mg/L	1.0	09/15/21 17:43	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/21 09:38	
EPA 6020B	Cobalt	0.00042J	mg/L	0.0050	09/16/21 09:38	
EPA 6020B	Lithium	0.0094J	mg/L	0.030	09/16/21 09:38	
SM 2540C-2011	Total Dissolved Solids	93.0	mg/L	10.0	08/31/21 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/06/21 04:35	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	09/06/21 04:35	
92558254003	**YGWA-5I**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	5.51	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/15/21 18:13	
EPA 6020B	Barium	0.019	mg/L	0.0050	09/16/21 09:44	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	09/16/21 09:44	
SM 2540C-2011	Total Dissolved Solids	86.0	mg/L	10.0	08/31/21 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/06/21 05:23	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/06/21 05:23	
92558254004	**UP-DUP-3**					
EPA 6010D	Calcium	2.5	mg/L	1.0	09/15/21 18:17	
EPA 6020B	Barium	0.018	mg/L	0.0050	09/16/21 09:50	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	09/16/21 09:50	
SM 2540C-2011	Total Dissolved Solids	80.0	mg/L	10.0	08/31/21 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/06/21 05:39	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	09/06/21 05:39	
92558254005	**YGWA-5D**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	7.16	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	25.2	mg/L	1.0	09/15/21 18:22	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	09/16/21 09:55	
EPA 6020B	Barium	0.0092	mg/L	0.0050	09/16/21 09:55	
EPA 6020B	Boron	0.0090J	mg/L	0.040	09/16/21 09:55	
EPA 6020B	Lithium	0.0075J	mg/L	0.030	09/16/21 09:55	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	09/16/21 09:55	

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558254005	**YGWA-5D**					
SM 2540C-2011	Total Dissolved Solids	123	mg/L	10.0	08/31/21 16:50	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/06/21 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/06/21 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	09/06/21 05:55	
92558254006	**YGWA-17S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.27	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	2.7	mg/L	1.0	09/15/21 18:27	
EPA 6020B	Barium	0.016	mg/L	0.0050	09/16/21 10:36	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/16/21 10:36	
EPA 6020B	Boron	0.011J	mg/L	0.040	09/16/21 10:36	
SM 2540C-2011	Total Dissolved Solids	93.0	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	8.5	mg/L	1.0	09/06/21 06:11	
EPA 300.0 Rev 2.1 1993	Sulfate	5.3	mg/L	1.0	09/06/21 06:11	
92558254007	**YGWA-18S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	4.40	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	0.98J	mg/L	1.0	09/15/21 18:32	
EPA 6020B	Barium	0.015	mg/L	0.0050	09/16/21 10:41	
EPA 6020B	Beryllium	0.000093J	mg/L	0.00050	09/16/21 10:41	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	09/16/21 10:41	
SM 2540C-2011	Total Dissolved Solids	31.0	mg/L	10.0	08/31/21 16:50	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	09/06/21 06:27	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	09/06/21 06:27	
92558254008	**YGWA-18I**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.40	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	5.1	mg/L	1.0	09/15/21 18:36	
EPA 6020B	Barium	0.020	mg/L	0.0050	09/16/21 10:47	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	09/16/21 10:47	
SM 2540C-2011	Total Dissolved Solids	112	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	09/06/21 06:43	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	09/06/21 06:43	
92558254009	**YGWA-20S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.57	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/15/21 18:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/21 10:53	
EPA 6020B	Beryllium	0.000059J	mg/L	0.00050	09/16/21 10:53	
SM 2540C-2011	Total Dissolved Solids	67.0	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/06/21 07:31	M1

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558254014	**YGWA-21I**					
	Performed by	CUSTOMER			09/03/21 11:11	
	pH	6.65	Std. Units		09/03/21 11:11	
EPA 6010D	Calcium	9.5	mg/L	1.0	09/15/21 19:15	
EPA 6020B	Barium	0.0099	mg/L	0.0050	09/16/21 11:21	
EPA 6020B	Cobalt	0.0068	mg/L	0.0050	09/16/21 11:21	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	09/16/21 11:21	
SM 2540C-2011	Total Dissolved Solids	137	mg/L	10.0	09/07/21 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/21 07:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/08/21 07:26	
EPA 300.0 Rev 2.1 1993	Sulfate	5.0	mg/L	1.0	09/08/21 07:26	
92559527001	**YGWA-40**					
	Performed by	CUSTOMER			09/03/21 17:47	
	pH	4.75	Std. Units		09/03/21 17:47	
EPA 6010D	Calcium	5.6	mg/L	1.0	09/13/21 16:20	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/14/21 19:02	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	09/14/21 19:02	
EPA 6020B	Boron	0.077	mg/L	0.040	09/14/21 19:02	
EPA 6020B	Magnesium	3.1	mg/L	0.050	09/14/21 19:02	
EPA 6020B	Potassium	2.0	mg/L	0.10	09/14/21 19:02	
EPA 6020B	Sodium	9.1	mg/L	0.10	09/14/21 19:02	
EPA 7470A	Mercury	0.00012J	mg/L	0.00020	09/21/21 10:46	
SM 2540C-2011	Total Dissolved Solids	88.0	mg/L	10.0	09/08/21 14:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.8	mg/L	5.0	09/13/21 17:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.8	mg/L	5.0	09/13/21 17:45	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	09/10/21 09:18	
EPA 300.0 Rev 2.1 1993	Sulfate	21.3	mg/L	1.0	09/10/21 09:18	

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-1 **Lab ID: 92557089001** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.0**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 16:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 16:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:38	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:38	7440-47-3	
Cobalt	**0.065**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:38	7440-48-4	
Copper	**0.00087J**	mg/L	0.0050	0.00050	1	08/31/21 09:25	08/31/21 16:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:38	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:38	7439-98-7	
Nickel	**0.013**	mg/L	0.0050	0.00071	1	08/31/21 09:25	08/31/21 16:38	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:38	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/31/21 09:25	08/31/21 16:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 16:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/31/21 09:25	08/31/21 16:38	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0070	1	08/31/21 09:25	08/31/21 16:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**245**	mg/L	10.0	10.0	1		08/27/21 14:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/31/21 01:54	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		08/31/21 01:54	16984-48-8	
Sulfate	**120**	mg/L	3.0	1.5	3		08/31/21 15:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: GWA-2 **Lab ID: 92557089002** Collected: 08/20/21 12:00 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:45		
pH	**5.86**	Std. Units			1		08/23/21 17:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.5**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 16:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:44	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:44	7440-47-3	
Cobalt	**0.074**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:44	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	08/31/21 09:25	08/31/21 16:44	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:44	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:44	7439-98-7	
Nickel	**0.014**	mg/L	0.0050	0.00071	1	08/31/21 09:25	08/31/21 16:44	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:44	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/31/21 09:25	08/31/21 16:44	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 16:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/31/21 09:25	08/31/21 16:44	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0070	1	08/31/21 09:25	08/31/21 16:44	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**254**	mg/L	10.0	10.0	1		08/27/21 14:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/31/21 02:08	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		08/31/21 02:08	16984-48-8	
Sulfate	**121**	mg/L	3.0	1.5	3		08/31/21 15:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-14S **Lab ID: 92557089003** Collected: 08/19/21 11:00 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:45		
pH	**7.32**	Std. Units			1		08/23/21 17:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:01	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:49	7440-38-2	
Barium	**0.0077**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:49	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:49	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:49	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**54.0**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		08/31/21 02:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 02:24	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		08/31/21 02:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-2 **Lab ID: 92557089004** Collected: 08/19/21 00:00 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:55	7440-38-2	
Barium	**0.0080**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:55	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:55	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		08/31/21 02:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 02:39	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		08/31/21 02:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-1D **Lab ID: 92557089005** Collected: 08/19/21 11:10 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:46		
pH	**6.32**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.2**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:11	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:01	7440-38-2	
Barium	**0.0065**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:01	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:01	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:01	7439-93-2	
Molybdenum	**0.0083J**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:01	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**105**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		08/31/21 03:24	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		08/31/21 03:24	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		08/31/21 03:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-1I **Lab ID: 92557089006** Collected: 08/19/21 12:49 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:46		
pH	**6.38**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.0**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:16	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:07	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:07	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:07	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:07	7439-93-2	
Molybdenum	**0.0050J**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**44.0**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		08/31/21 03:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 03:39	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		08/31/21 03:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-3D **Lab ID: 92557089007** Collected: 08/19/21 14:45 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:46		
pH	**5.34**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**28.1**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:38	7440-38-2	
Barium	**0.0052**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:38	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:38	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:38	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**144**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		08/31/21 03:54	16887-00-6	
Fluoride	**0.47**	mg/L	0.10	0.050	1		08/31/21 03:54	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	0.50	1		08/31/21 03:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-47 **Lab ID: 92557089008** Collected: 08/19/21 10:26 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/23/21 17:46		
pH	**5.50**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.6**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 18:00	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 17:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:44	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:44	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:44	7440-47-3	
Cobalt	**0.00099J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:44	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 17:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**134**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		08/31/21 04:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 04:39	16984-48-8	
Sulfate	**52.6**	mg/L	1.0	0.50	1		08/31/21 04:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-30I **Lab ID: 92557089009** Collected: 08/19/21 12:20 Received: 08/20/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/07/21 08:26		
Collected Time	**5.43**				1		09/07/21 08:26		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 18:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/31/21 09:25	08/31/21 17:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:50	7440-38-2	
Barium	**0.0071**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:50	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:50	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**50.0**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		08/31/21 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 04:54	16984-48-8	
Sulfate	**1.0**	mg/L	1.0	0.50	1		08/31/21 04:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-39 **Lab ID: 92557720005** Collected: 08/26/21 12:30 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 09:54		
pH	**6.91**	Std. Units			1		08/30/21 09:54		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.6**	mg/L	0.20	0.15	1	09/09/21 11:30	09/09/21 15:23	7440-09-7	
Sodium	**29.6**	mg/L	1.0	0.58	1	09/09/21 11:30	09/09/21 15:23	7440-23-5	
Calcium	**14.1**	mg/L	1.0	0.12	1	09/09/21 11:30	09/09/21 15:23	7440-70-2	
Magnesium	**19.1**	mg/L	0.050	0.012	1	09/09/21 11:30	09/09/21 15:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/09/21 11:00	09/09/21 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:44	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:44	7440-41-7	
Boron	**0.095**	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:44	7440-42-8	
Cadmium	**0.00049J**	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:44	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:44	7439-92-1	
Lithium	**0.0082J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:44	7439-93-2	
Molybdenum	**0.0027J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:44	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/09/21 10:30	09/09/21 16:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**249**	mg/L	10.0	10.0	1		08/31/21 16:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		09/06/21 03:00	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		09/06/21 03:00	16984-48-8	
Sulfate	**19.2**	mg/L	1.0	0.50	1		09/06/21 03:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-2I **Lab ID: 92558251001** Collected: 08/27/21 11:33 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 09:57		
pH	**7.14**	Std. Units			1		08/30/21 09:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.6**	mg/L	1.0	0.12	1	09/01/21 10:48	09/01/21 14:45	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/09/21 11:00	09/09/21 19:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:50	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:50	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:50	7439-93-2	
Molybdenum	**0.0048J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**150**	mg/L	10.0	10.0	1		08/31/21 16:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.99J**	mg/L	1.0	0.60	1		09/06/21 03:16	16887-00-6	M1
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/06/21 03:16	16984-48-8	M1
Sulfate	**16.7**	mg/L	1.0	0.50	1		09/06/21 03:16	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-3I **Lab ID: 92558251002** Collected: 08/27/21 09:55 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 09:57		
pH	**7.39**	Std. Units			1		08/30/21 09:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**24.7**	mg/L	1.0	0.12	1	09/01/21 10:48	09/01/21 15:04	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/09/21 11:00	09/09/21 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:55	7440-38-2	
Barium	**0.0039J**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:55	7439-92-1	
Lithium	**0.026J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:55	7439-93-2	
Molybdenum	**0.0099J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**155**	mg/L	10.0	10.0	1		08/31/21 16:51		
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		09/06/21 04:03	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/06/21 04:03	16984-48-8	
Sulfate	**18.2**	mg/L	1.0	0.50	1		09/06/21 04:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-FB-2 **Lab ID: 92558254001** Collected: 08/26/21 17:10 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	09/14/21 11:36	09/14/21 16:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 09:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:32	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:32	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/31/21 16:26		
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		09/06/21 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 04:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/06/21 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-4I **Lab ID: 92558254002** Collected: 08/26/21 11:29 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:06		
pH	**5.82**	Std. Units			1		08/30/21 10:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.6**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 17:43	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 09:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:38	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:38	7440-47-3	
Cobalt	**0.00042J**	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:38	7439-92-1	
Lithium	**0.0094J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:38	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		08/31/21 16:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		09/06/21 04:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 04:35	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.50	1		09/06/21 04:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-5I **Lab ID: 92558254003** Collected: 08/26/21 16:28 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:06		
pH	**5.51**	Std. Units			1		08/30/21 10:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:13	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 09:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:44	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:44	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:44	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	10.0	10.0	1		08/31/21 16:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/06/21 05:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 05:23	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		09/06/21 05:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-3 **Lab ID: 92558254004** Collected: 08/26/21 00:00 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:17	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 09:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:50	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:50	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:50	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**80.0**	mg/L	10.0	10.0	1		08/31/21 16:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/06/21 05:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 05:39	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.50	1		09/06/21 05:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-5D **Lab ID: 92558254005** Collected: 08/26/21 13:35 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:06		
pH	**7.16**	Std. Units			1		08/30/21 10:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.2**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:22	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 09:55	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:55	7440-38-2	
Barium	**0.0092**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:55	7440-41-7	
Boron	**0.0090J**	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:55	7439-92-1	
Lithium	**0.0075J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:55	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:55	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**123**	mg/L	10.0	10.0	1		08/31/21 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/06/21 05:55	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/06/21 05:55	16984-48-8	
Sulfate	**6.0**	mg/L	1.0	0.50	1		09/06/21 05:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-17S **Lab ID: 92558254006** Collected: 08/27/21 10:45 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:07		
pH	**5.27**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.7**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 10:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:36	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:36	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:36	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:36	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		08/31/21 16:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.5**	mg/L	1.0	0.60	1		09/06/21 06:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:11	16984-48-8	
Sulfate	**5.3**	mg/L	1.0	0.50	1		09/06/21 06:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-18S **Lab ID: 92558254007** Collected: 08/26/21 15:35 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:07		
pH	**4.40**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.98J**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:32	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 10:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:41	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:41	7440-39-3	
Beryllium	**0.000093J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:41	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:41	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**31.0**	mg/L	10.0	10.0	1		08/31/21 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		09/06/21 06:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:27	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.50	1		09/06/21 06:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-18I **Lab ID: 92558254008** Collected: 08/27/21 09:35 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:07		
pH	**5.40**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.1**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 10:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:47	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:47	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:47	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**112**	mg/L	10.0	10.0	1		08/31/21 16:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.4**	mg/L	1.0	0.60	1		09/06/21 06:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:43	16984-48-8	
Sulfate	**0.59J**	mg/L	1.0	0.50	1		09/06/21 06:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-20S **Lab ID: 92558254009** Collected: 08/27/21 13:10 Received: 08/27/21 16:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		08/30/21 10:07		
pH	**5.57**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.4**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 10:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:53	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:53	7440-39-3	
Beryllium	**0.000059J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:53	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	10.0	10.0	1		08/31/21 16:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		09/06/21 07:31	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 07:31	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		09/06/21 07:31	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-21I **Lab ID: 92558254014** Collected: 09/01/21 14:40 Received: 09/02/21 17:02 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/03/21 11:11		
pH	**6.65**	Std. Units			1		09/03/21 11:11		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.5**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 19:15	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/15/21 13:00	09/16/21 11:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 11:21	7440-38-2	
Barium	**0.0099**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 11:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 11:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 11:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 11:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 11:21	7440-47-3	
Cobalt	**0.0068**	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 11:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 11:21	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 11:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 11:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 11:21	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 15:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	10.0	10.0	1		09/07/21 13:47		
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		09/08/21 07:26	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/08/21 07:26	16984-48-8	
Sulfate	**5.0**	mg/L	1.0	0.50	1		09/08/21 07:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-40 **Lab ID: 92559527001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		09/03/21 17:47		
pH	**4.75**	Std. Units			1		09/03/21 17:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.6**	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/11/21 09:00	09/14/21 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:02	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:02	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:02	7440-41-7	
Boron	**0.077**	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:02	7439-93-2	
Magnesium	**3.1**	mg/L	0.050	0.0074	1	09/11/21 09:00	09/14/21 19:02	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:02	7439-98-7	
Potassium	**2.0**	mg/L	0.10	0.047	1	09/11/21 09:00	09/14/21 19:02	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:02	7782-49-2	
Sodium	**9.1**	mg/L	0.10	0.022	1	09/11/21 09:00	09/14/21 19:02	7440-23-5	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00012J**	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 10:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**88.0**	mg/L	10.0	10.0	1		09/08/21 14:23		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.8**	mg/L	5.0	5.0	1		09/13/21 17:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/21 17:45		
Alkalinity, Total as CaCO3	**13.8**	mg/L	5.0	5.0	1		09/13/21 17:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		09/10/21 09:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/10/21 09:18	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-40 **Lab ID: 92559527001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**21.3**	mg/L	1.0	0.50	1		09/10/21 09:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644090
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379384 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/31/21 15:03	

LABORATORY CONTROL SAMPLE: 3379385

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379386 3379387

Parameter	Units	92555948008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	141	1	1	141	141	-23	-77	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644451
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558251001, 92558251002

METHOD BLANK: 3381031 Matrix: Water
Associated Lab Samples: 92558251001, 92558251002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/01/21 14:13	

LABORATORY CONTROL SAMPLE: 3381032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3381033 3381034

Parameter	Units	92558251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	22.6	1	1	24.4	24.2	181	153	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645799
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005

METHOD BLANK: 3387400 Matrix: Water
Associated Lab Samples: 92557720005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/09/21 14:40	
Magnesium	mg/L	ND	0.050	0.012	09/09/21 14:40	
Potassium	mg/L	ND	0.20	0.15	09/09/21 14:40	
Sodium	mg/L	ND	1.0	0.58	09/09/21 14:40	

LABORATORY CONTROL SAMPLE: 3387401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387402 3387403

Parameter	Units	92557720001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	79.9	1	1	78.2	78.5	-168	-139	75-125	0	20	M1
Magnesium	mg/L	80.9	1	1	79.7	80.4	-116	-50	75-125	1	20	M1
Potassium	mg/L	11.5	1	1	12.3	12.5	73	92	75-125	2	20	M1
Sodium	mg/L	36.4	1	1	36.7	37.2	28	79	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646610
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559527001

METHOD BLANK: 3391819 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	92558259010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1.4	1	1	2.5	2.5	106	109	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647011
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001

METHOD BLANK: 3393694 Matrix: Water
Associated Lab Samples: 92558254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/21 16:29	

LABORATORY CONTROL SAMPLE: 3393695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3393696 3393697

Parameter	Units	92558254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.1	1.0	108	103	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647336
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3395362 Matrix: Water
Associated Lab Samples: 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/21 17:34	

LABORATORY CONTROL SAMPLE: 3395363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395364 3395365

Parameter	Units	92558254002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.6	1	1	8.6	8.8	93	118	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644091
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379388 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/31/21 15:02	
Arsenic	mg/L	ND	0.0050	0.0011	08/31/21 15:02	
Barium	mg/L	ND	0.0050	0.00067	08/31/21 15:02	
Beryllium	mg/L	ND	0.00050	0.000054	08/31/21 15:02	
Boron	mg/L	ND	0.040	0.0086	08/31/21 15:02	
Cadmium	mg/L	ND	0.00050	0.00011	08/31/21 15:02	
Chromium	mg/L	ND	0.0050	0.0011	08/31/21 15:02	
Cobalt	mg/L	ND	0.0050	0.00039	08/31/21 15:02	
Copper	mg/L	ND	0.0050	0.00050	08/31/21 15:02	
Lead	mg/L	ND	0.0010	0.00089	08/31/21 15:02	
Lithium	mg/L	ND	0.030	0.00073	08/31/21 15:02	
Molybdenum	mg/L	ND	0.010	0.00074	08/31/21 15:02	
Nickel	mg/L	ND	0.0050	0.00071	08/31/21 15:02	
Selenium	mg/L	ND	0.0050	0.0014	08/31/21 15:02	
Silver	mg/L	ND	0.0050	0.00044	08/31/21 15:02	
Thallium	mg/L	ND	0.0010	0.00018	08/31/21 15:02	
Vanadium	mg/L	ND	0.010	0.0019	08/31/21 15:02	
Zinc	mg/L	ND	0.010	0.0070	08/31/21 15:02	

LABORATORY CONTROL SAMPLE: 3379389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.092	92	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.090	90	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Copper	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.092	92	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Silver	mg/L	0.1	0.094	94	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

LABORATORY CONTROL SAMPLE: 3379389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379390 3379391

Parameter	Units	92555948009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.091	0.089	91	89	75-125	2	20	
Arsenic	mg/L	0.0014J	0.1	0.1	0.10	0.096	100	95	75-125	5	20	
Barium	mg/L	0.029	0.1	0.1	0.13	0.13	104	101	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.094	97	94	75-125	3	20	
Boron	mg/L	0.093	1	1	1.1	1.1	103	97	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Chromium	mg/L	0.0012J	0.1	0.1	0.11	0.10	107	102	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.093	99	92	75-125	7	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.097	98	96	75-125	2	20	
Molybdenum	mg/L	0.0019J	0.1	0.1	0.097	0.094	95	92	75-125	3	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.092	0.089	92	89	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.094	100	94	75-125	6	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645800
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005, 92558251001, 92558251002

METHOD BLANK: 3387411 Matrix: Water
Associated Lab Samples: 92557720005, 92558251001, 92558251002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/09/21 16:19	
Arsenic	mg/L	ND	0.0050	0.0011	09/09/21 16:19	
Barium	mg/L	ND	0.0050	0.00067	09/09/21 16:19	
Beryllium	mg/L	ND	0.00050	0.000054	09/09/21 16:19	
Boron	mg/L	ND	0.040	0.0086	09/09/21 16:19	
Cadmium	mg/L	ND	0.00050	0.00011	09/09/21 16:19	
Chromium	mg/L	ND	0.0050	0.0011	09/09/21 16:19	
Cobalt	mg/L	ND	0.0050	0.00039	09/09/21 16:19	
Lead	mg/L	ND	0.0010	0.00089	09/09/21 16:19	
Lithium	mg/L	ND	0.030	0.00073	09/09/21 16:19	
Molybdenum	mg/L	ND	0.010	0.00074	09/09/21 16:19	
Selenium	mg/L	ND	0.0050	0.0014	09/09/21 16:19	

LABORATORY CONTROL SAMPLE: 3387412

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	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387413 3387414

Parameter	Units	92557720004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Barium	mg/L	0.049	0.1	0.1	0.15	0.15	102	102	75-125	0	20	
Beryllium	mg/L	0.00019J	0.1	0.1	0.10	0.095	101	95	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387413 3387414

Parameter	Units	92557720004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.3	1	1	2.1	2.1	85	78	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Lithium	mg/L	0.0026J	0.1	0.1	0.10	0.097	100	94	75-125	6	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Selenium	mg/L	0.032	0.1	0.1	0.13	0.13	102	103	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646612
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559527001

METHOD BLANK: 3391827 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Magnesium	mg/L	ND	0.050	0.0074	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Potassium	mg/L	ND	0.10	0.047	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Sodium	mg/L	ND	0.10	0.022	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Sodium	mg/L	1	0.99	99	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	92559417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20	
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20	
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20	
Magnesium	mg/L	14.1	1	1	14.0	14.9	-15	74	75-125	6	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Potassium	mg/L	1.7	1	1	2.6	2.7	88	94	75-125	2	20	
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20	
Sodium	mg/L	10	1	1	10.3	10.8	30	81	75-125	5	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647371
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3395597 Matrix: Water
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/16/21 09:21	
Arsenic	mg/L	ND	0.0050	0.0011	09/16/21 09:21	
Barium	mg/L	ND	0.0050	0.00067	09/16/21 09:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/16/21 09:21	
Boron	mg/L	ND	0.040	0.0086	09/16/21 09:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/16/21 09:21	
Chromium	mg/L	ND	0.0050	0.0011	09/16/21 09:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/16/21 09:21	
Lead	mg/L	ND	0.0010	0.00089	09/16/21 09:21	
Lithium	mg/L	ND	0.030	0.00073	09/16/21 09:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/16/21 09:21	
Selenium	mg/L	ND	0.0050	0.0014	09/16/21 09:21	

LABORATORY CONTROL SAMPLE: 3395598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395599 3395600

Parameter	Units	92558254005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Barium	mg/L	0.0092	0.1	0.1	0.11	0.11	99	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395599 3395600

Parameter	Units	92558254005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Boron	mg/L	0.0090J	1	1	0.98	1.0	98	100	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Lithium	mg/L	0.0075J	0.1	0.1	0.11	0.11	101	101	75-125	0	20	
Molybdenum	mg/L	0.0010J	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.089	96	89	75-125	8	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643872
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089008

METHOD BLANK: 3378197 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/31/21 10:48	

LABORATORY CONTROL SAMPLE: 3378198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3378199 3378200

Parameter	Units	92557081001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0020	80	82	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646057
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92557720005

METHOD BLANK: 3388621 Matrix: Water
Associated Lab Samples: 92557720005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/09/21 16:28	

LABORATORY CONTROL SAMPLE: 3388622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388623 3388624

Parameter	Units	92557720001 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	0.0025	0.0022	98	88	75-125	12	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647249
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3394978 Matrix: Water
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/15/21 14:08	

LABORATORY CONTROL SAMPLE: 3394979

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: 3394980 3394981

Parameter	Units	92558254001 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	0.0024	95	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 648334
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559527001

METHOD BLANK: 3400299 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 10:38	

LABORATORY CONTROL SAMPLE: 3400300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400301 3400302

Parameter	Units	92560635001 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	0.0023	92	91	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643142 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3374773 Matrix: Water
Associated Lab Samples: 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/26/21 19:22	

LABORATORY CONTROL SAMPLE: 3374774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3374775

Parameter	Units	92557073003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	391	407	4	10	

SAMPLE DUPLICATE: 3374776

Parameter	Units	92557089008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	144	7	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643454
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002

METHOD BLANK: 3376456 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/27/21 14:05	

LABORATORY CONTROL SAMPLE: 3376457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3376458

Parameter	Units	92557088009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	203	6	10	

SAMPLE DUPLICATE: 3376459

Parameter	Units	92555948030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2040	2150	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644073 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005, 92558254001, 92558254002, 92558254003, 92558254004

METHOD BLANK: 3379366 Matrix: Water
Associated Lab Samples: 92557720005, 92558254001, 92558254002, 92558254003, 92558254004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/31/21 16:23	

LABORATORY CONTROL SAMPLE: 3379367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	90-111	

SAMPLE DUPLICATE: 3379368

Parameter	Units	92557720003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	822	870	6	10	

SAMPLE DUPLICATE: 3379369

Parameter	Units	92555948054 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10.0	ND		10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644074 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558251001, 92558251002, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009

METHOD BLANK: 3379370 Matrix: Water
Associated Lab Samples: 92558251001, 92558251002, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/31/21 16:50	

LABORATORY CONTROL SAMPLE: 3379371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	90-111	

SAMPLE DUPLICATE: 3379372

Parameter	Units	92558254005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	128	4	10	

SAMPLE DUPLICATE: 3379373

Parameter	Units	92558251001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	150	151	1	10	

SAMPLE DUPLICATE: 3380417

Parameter	Units	92555945014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	396	414	4	10	H1

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645434
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254014

METHOD BLANK: 3385639 Matrix: Water
Associated Lab Samples: 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/07/21 13:45	

LABORATORY CONTROL SAMPLE: 3385640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3385641

Parameter	Units	92558572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	197	201	2	10	

SAMPLE DUPLICATE: 3385642

Parameter	Units	92558720005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	39.0	54.0	32	10	R1

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645665
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559527001

METHOD BLANK: 3386951 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/08/21 14:20	

LABORATORY CONTROL SAMPLE: 3386952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3386953

Parameter	Units	92558259011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	163	174	7	10	

SAMPLE DUPLICATE: 3386954

Parameter	Units	92559417002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	546	557	2	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646359
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92559527001

METHOD BLANK: 3390347 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/21 12:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/21 12:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/21 12:18	

LABORATORY CONTROL SAMPLE: 3390348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3390349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390350 3390351

Parameter	Units	92559892005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	<5.0	50	50	51.8	50.2	104	100	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390352 3390353

Parameter	Units	92559527001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.8	50	50	69.9	70.0	112	112	80-120	0	25	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644028
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379266 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/30/21 22:40	
Fluoride	mg/L	ND	0.10	0.050	08/30/21 22:40	
Sulfate	mg/L	ND	1.0	0.50	08/30/21 22:40	

LABORATORY CONTROL SAMPLE: 3379267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379268 3379269

Parameter	Units	92558089003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19300	50	50	4810	17900	-29000	-2800	90-110	115	10	M1,R1
Fluoride	mg/L	6.5J	2.5	2.5	8.5J	8.6J	80	84	90-110		10	M1
Sulfate	mg/L	1340	50	50	1480	1380	263	71	90-110	7	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379270 3379271

Parameter	Units	92557089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.0	50	50	56.3	58.9	103	108	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	107	90-110	4	10	
Sulfate	mg/L	6.7	50	50	58.8	61.3	104	109	90-110	4	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645268
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557720005, 92558251001, 92558251002, 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008

METHOD BLANK: 3385176 Matrix: Water
Associated Lab Samples: 92557720005, 92558251001, 92558251002, 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/05/21 23:01	
Fluoride	mg/L	ND	0.10	0.050	09/05/21 23:01	
Sulfate	mg/L	ND	1.0	0.50	09/05/21 23:01	

LABORATORY CONTROL SAMPLE: 3385177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.3	94	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385178 3385179

Parameter	Units	92555948053 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	274	50	50	326	328	105	109	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	3.6	3.6	139	139	90-110	0	10	M1
Sulfate	mg/L	285	50	50	344	347	119	124	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385180 3385181

Parameter	Units	92558251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.99J	50	50	66.4	67.0	131	132	90-110	1	10	M1
Fluoride	mg/L	0.12	2.5	2.5	3.4	3.4	133	132	90-110	0	10	M1
Sulfate	mg/L	16.7	50	50	85.1	85.4	137	137	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645269
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92558254009

METHOD BLANK: 3385184 Matrix: Water
Associated Lab Samples: 92558254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/06/21 06:59	
Fluoride	mg/L	ND	0.10	0.050	09/06/21 06:59	
Sulfate	mg/L	ND	1.0	0.50	09/06/21 06:59	

LABORATORY CONTROL SAMPLE: 3385185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385186 3385187

Parameter	Units	92558254009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	68.7	69.4	132	133	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.3	3.3	130	130	90-110	0	10	M1
Sulfate	mg/L	ND	50	50	69.3	69.9	138	140	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385188 3385189

Parameter	Units	92558560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.8	50	50	67.3	67.5	107	107	90-110	0	10	
Fluoride	mg/L	0.29	2.5	2.5	3.0	3.0	110	109	90-110	1	10	
Sulfate	mg/L	27.9	50	50	82.7	82.7	110	110	90-110	0	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645412
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92558254014

METHOD BLANK: 3385548 Matrix: Water
Associated Lab Samples: 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/21 05:04	
Fluoride	mg/L	ND	0.10	0.050	09/08/21 05:04	
Sulfate	mg/L	ND	1.0	0.50	09/08/21 05:04	

LABORATORY CONTROL SAMPLE: 3385549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385550 3385551

Parameter	Units	92559210006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	57.8	55.9	110	106	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.7	109	105	90-110	3	10	
Sulfate	mg/L	ND	50	50	54.9	54.2	108	107	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385552 3385553

Parameter	Units	92559417003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	50	50	57.3	56.1	108	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	102	90-110	3	10	
Sulfate	mg/L	1.3	50	50	56.2	55.0	110	107	90-110	2	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646087
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92559527001

METHOD BLANK: 3388785 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/10/21 03:14	
Fluoride	mg/L	ND	0.10	0.050	09/10/21 03:14	
Sulfate	mg/L	ND	1.0	0.50	09/10/21 03:14	

LABORATORY CONTROL SAMPLE: 3388786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388787 3388788

Parameter	Units	92560111002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	60.1	60.7	109	110	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	1.2	1.1	47	43	90-110	7	10	M1
Sulfate	mg/L	ND	50	50	57.6	58.0	114	115	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388789 3388790

Parameter	Units	92559452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.6	50	50	69.0	69.3	107	107	90-110	0	10	
Fluoride	mg/L		2.5	2.5	3.2	3.2	105	105	90-110	0	10	
Sulfate	mg/L		50	50	73.2	73.4	111	111	90-110	0	10	M1

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557089002	GWA-2				
92557089003	YGWA-14S				
92557089005	YGWA-1D				
92557089006	YGWA-1I				
92557089007	YGWA-3D				
92557089008	YGWA-47				
92557089009	YGWA-30I				
92557720005	YGWA-39				
92558251001	YGWA-2I				
92558251002	YGWA-3I				
92558254002	YGWA-4I				
92558254003	YGWA-5I				
92558254005	YGWA-5D				
92558254006	YGWA-17S				
92558254007	YGWA-18S				
92558254008	YGWA-18I				
92558254009	YGWA-20S				
92558254014	YGWA-21I				
92559527001	YGWA-40				
92557089001	UP-DUP-1	EPA 3010A	644090	EPA 6010D	644167
92557089002	GWA-2	EPA 3010A	644090	EPA 6010D	644167
92557089003	YGWA-14S	EPA 3010A	644090	EPA 6010D	644167
92557089004	UP-DUP-2	EPA 3010A	644090	EPA 6010D	644167
92557089005	YGWA-1D	EPA 3010A	644090	EPA 6010D	644167
92557089006	YGWA-1I	EPA 3010A	644090	EPA 6010D	644167
92557089007	YGWA-3D	EPA 3010A	644090	EPA 6010D	644167
92557089008	YGWA-47	EPA 3010A	644090	EPA 6010D	644167
92557089009	YGWA-30I	EPA 3010A	644090	EPA 6010D	644167
92557720005	YGWA-39	EPA 3010A	645799	EPA 6010D	646162
92558251001	YGWA-2I	EPA 3010A	644451	EPA 6010D	644531
92558251002	YGWA-3I	EPA 3010A	644451	EPA 6010D	644531
92558254001	UP-FB-2	EPA 3010A	647011	EPA 6010D	647060
92558254002	YGWA-4I	EPA 3010A	647336	EPA 6010D	647380
92558254003	YGWA-5I	EPA 3010A	647336	EPA 6010D	647380
92558254004	UP-DUP-3	EPA 3010A	647336	EPA 6010D	647380
92558254005	YGWA-5D	EPA 3010A	647336	EPA 6010D	647380
92558254006	YGWA-17S	EPA 3010A	647336	EPA 6010D	647380
92558254007	YGWA-18S	EPA 3010A	647336	EPA 6010D	647380
92558254008	YGWA-18I	EPA 3010A	647336	EPA 6010D	647380
92558254009	YGWA-20S	EPA 3010A	647336	EPA 6010D	647380
92558254014	YGWA-21I	EPA 3010A	647336	EPA 6010D	647380
92559527001	YGWA-40	EPA 3010A	646610	EPA 6010D	646635
92557089001	UP-DUP-1	EPA 3005A	644091	EPA 6020B	644223
92557089002	GWA-2	EPA 3005A	644091	EPA 6020B	644223
92557089003	YGWA-14S	EPA 3005A	644091	EPA 6020B	644223

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557089004	UP-DUP-2	EPA 3005A	644091	EPA 6020B	644223
92557089005	YGWA-1D	EPA 3005A	644091	EPA 6020B	644223
92557089006	YGWA-1I	EPA 3005A	644091	EPA 6020B	644223
92557089007	YGWA-3D	EPA 3005A	644091	EPA 6020B	644223
92557089008	YGWA-47	EPA 3005A	644091	EPA 6020B	644223
92557089009	YGWA-30I	EPA 3005A	644091	EPA 6020B	644223
92557720005	YGWA-39	EPA 3005A	645800	EPA 6020B	646175
92558251001	YGWA-2I	EPA 3005A	645800	EPA 6020B	646175
92558251002	YGWA-3I	EPA 3005A	645800	EPA 6020B	646175
92558254001	UP-FB-2	EPA 3005A	647371	EPA 6020B	647475
92558254002	YGWA-4I	EPA 3005A	647371	EPA 6020B	647475
92558254003	YGWA-5I	EPA 3005A	647371	EPA 6020B	647475
92558254004	UP-DUP-3	EPA 3005A	647371	EPA 6020B	647475
92558254005	YGWA-5D	EPA 3005A	647371	EPA 6020B	647475
92558254006	YGWA-17S	EPA 3005A	647371	EPA 6020B	647475
92558254007	YGWA-18S	EPA 3005A	647371	EPA 6020B	647475
92558254008	YGWA-18I	EPA 3005A	647371	EPA 6020B	647475
92558254009	YGWA-20S	EPA 3005A	647371	EPA 6020B	647475
92558254014	YGWA-21I	EPA 3005A	647371	EPA 6020B	647475
92559527001	YGWA-40	EPA 3005A	646612	EPA 6020B	646637
92557089001	UP-DUP-1	EPA 7470A	643872	EPA 7470A	643926
92557089002	GWA-2	EPA 7470A	643872	EPA 7470A	643926
92557089008	YGWA-47	EPA 7470A	643872	EPA 7470A	643926
92557720005	YGWA-39	EPA 7470A	646057	EPA 7470A	646168
92558254001	UP-FB-2	EPA 7470A	647249	EPA 7470A	647342
92558254002	YGWA-4I	EPA 7470A	647249	EPA 7470A	647342
92558254003	YGWA-5I	EPA 7470A	647249	EPA 7470A	647342
92558254004	UP-DUP-3	EPA 7470A	647249	EPA 7470A	647342
92558254005	YGWA-5D	EPA 7470A	647249	EPA 7470A	647342
92558254006	YGWA-17S	EPA 7470A	647249	EPA 7470A	647342
92558254007	YGWA-18S	EPA 7470A	647249	EPA 7470A	647342
92558254008	YGWA-18I	EPA 7470A	647249	EPA 7470A	647342
92558254009	YGWA-20S	EPA 7470A	647249	EPA 7470A	647342
92558254014	YGWA-21I	EPA 7470A	647249	EPA 7470A	647342
92559527001	YGWA-40	EPA 7470A	648334	EPA 7470A	648431
92557089001	UP-DUP-1	SM 2540C-2011	643454		
92557089002	GWA-2	SM 2540C-2011	643454		
92557089003	YGWA-14S	SM 2540C-2011	643142		
92557089004	UP-DUP-2	SM 2540C-2011	643142		
92557089005	YGWA-1D	SM 2540C-2011	643142		
92557089006	YGWA-1I	SM 2540C-2011	643142		
92557089007	YGWA-3D	SM 2540C-2011	643142		
92557089008	YGWA-47	SM 2540C-2011	643142		
92557089009	YGWA-30I	SM 2540C-2011	643142		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557720005	YGWA-39	SM 2540C-2011	644073		
92558251001	YGWA-2I	SM 2540C-2011	644074		
92558251002	YGWA-3I	SM 2540C-2011	644074		
92558254001	UP-FB-2	SM 2540C-2011	644073		
92558254002	YGWA-4I	SM 2540C-2011	644073		
92558254003	YGWA-5I	SM 2540C-2011	644073		
92558254004	UP-DUP-3	SM 2540C-2011	644073		
92558254005	YGWA-5D	SM 2540C-2011	644074		
92558254006	YGWA-17S	SM 2540C-2011	644074		
92558254007	YGWA-18S	SM 2540C-2011	644074		
92558254008	YGWA-18I	SM 2540C-2011	644074		
92558254009	YGWA-20S	SM 2540C-2011	644074		
92558254014	YGWA-21I	SM 2540C-2011	645434		
92559527001	YGWA-40	SM 2540C-2011	645665		
92559527001	YGWA-40	SM 2320B-2011	646359		
92557089001	UP-DUP-1	EPA 300.0 Rev 2.1 1993	644028		
92557089002	GWA-2	EPA 300.0 Rev 2.1 1993	644028		
92557089003	YGWA-14S	EPA 300.0 Rev 2.1 1993	644028		
92557089004	UP-DUP-2	EPA 300.0 Rev 2.1 1993	644028		
92557089005	YGWA-1D	EPA 300.0 Rev 2.1 1993	644028		
92557089006	YGWA-1I	EPA 300.0 Rev 2.1 1993	644028		
92557089007	YGWA-3D	EPA 300.0 Rev 2.1 1993	644028		
92557089008	YGWA-47	EPA 300.0 Rev 2.1 1993	644028		
92557089009	YGWA-30I	EPA 300.0 Rev 2.1 1993	644028		
92557720005	YGWA-39	EPA 300.0 Rev 2.1 1993	645268		
92558251001	YGWA-2I	EPA 300.0 Rev 2.1 1993	645268		
92558251002	YGWA-3I	EPA 300.0 Rev 2.1 1993	645268		
92558254001	UP-FB-2	EPA 300.0 Rev 2.1 1993	645268		
92558254002	YGWA-4I	EPA 300.0 Rev 2.1 1993	645268		
92558254003	YGWA-5I	EPA 300.0 Rev 2.1 1993	645268		
92558254004	UP-DUP-3	EPA 300.0 Rev 2.1 1993	645268		
92558254005	YGWA-5D	EPA 300.0 Rev 2.1 1993	645268		
92558254006	YGWA-17S	EPA 300.0 Rev 2.1 1993	645268		
92558254007	YGWA-18S	EPA 300.0 Rev 2.1 1993	645268		
92558254008	YGWA-18I	EPA 300.0 Rev 2.1 1993	645268		
92558254009	YGWA-20S	EPA 300.0 Rev 2.1 1993	645269		
92558254014	YGWA-21I	EPA 300.0 Rev 2.1 1993	645412		
92559527001	YGWA-40	EPA 300.0 Rev 2.1 1993	646087		

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92557089

92557089

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

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

Date/Initials Person Examining Contents: 8/23/21 cm

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

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

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

Type of Ice:

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. EB-1 + FB-1 Collection time not listed on COC but containers are on AP2 Work Order
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Georgia Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	Regulatory Agency
		Address:	CCR
Email To: SCS and Arcadis Contacts	Purchase Order #: UPGRADIENT	Pace Quote:	
Phone: Fax:	Project Name: ~~Yates Gypsum Pond Groundwater~~	Pace Project Manager: Kevin Herring/Nicole D'Oleo	State / Location: GA
Requested Due Date: 10 Day	Project Number:	Pace Profile #: 10840	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and III Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																	Y/N									
1	UP-DUP-1	WT	G	8/20	—														x	x	x	x	x	x	x		pH 5.86
2	GWA-2	WT	G	8/20	1200				5	✓		✓							x	x	x	x	x	x	x		pH 5.36
3		WT	G																								
4		WT	G																								
5		WT	G																								
6		WT	G																								
7		WT	G																								
8		WT	G																								
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	8/20	1730	[signature]	8/20/21	1745	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/21

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 4

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:	Regulatory Agency
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:	
Suite 900 Atlanta, GA 30339		Address:	
Email:	Purchase Order #:	Pace Quote:	
Phone: Fax:	Project Name: ~~Yates 316-2~~ UG	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location
Requested Due Date:	Project #:	Pace Profile #: 10840	GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-2-EB-1~~	WT		~~8/20~~	1070	35			5	✓		✓							X	X	X	X	
2	~~AP-2-EB-2~~	WT																	X	X	X	X	
3	AP-2-FB-1	WT		8/19	1530	35			5	✓		✓							X	X	X	X	
4	~~AP-2-FB-2~~	WT																	X	X	X	X	
5	YGWA-1I	WT																	X	X	X	X	
6	YGWA-1D	WT																	X	X	X	X	
7	~~YGWA-2I~~	WT																	X	X	X	X	
8	~~MGWA-3I~~	WT																	X	X	X	X	
9	YGWA-3D	WT																	X	X	X	X	
10	YGWA-14S	WT		8/19	~~1332~~	100			4	✓		✓							X	X	X	X	Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							X	X	X	X	—
12	~~YGWA-9I~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		8/20	1730		8/21/12	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 4

Section A – Required Client Information:
Company: Arcadis (GA Power)
Address: 2839 Paces Ferry Rd
Suite 900, Atlanta, GA 30339
Email:
Phone: Fax:
Requested Due Date:

Section B – Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: ~~Yates~~-2 UG
Project #:

Section C – Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nicole d'oleo@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~[illegible]~~	WT		8/20	1020	JS			5	✓		✓						X	X	X	X	—
2	~~AP-2-EB-2~~	WT																X	X	X	X	
3	AP-2-FB-1	WT		8/17	1530	JS			5	✓		✓						X	X	X	X	—
4	~~AP-2-GC-2~~	WT																X	X	X	X	
5	~~YGWA-1I~~	WT																X	X	X	X	
6	~~YGWA-1D~~	WT																X	X	X	X	
7	~~YGWA-2I~~	WT																X	X	X	X	
8	~~YGWA-3I~~	WT																X	X	X	X	
9	~~YGWA-3D~~	WT																X	X	X	X	
10	YGWA-14S	WT		8/19	~~[illegible]~~		1100		4	✓		✓						X	X	X	X	PH: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓						X	X	X	X	—
12	~~YGWA-~~ JS YGWA-30I	WT		8/19	1220				4	✓		✓						X	X	X	X	PH: 5.43 JS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	8/20	1730	[signature]	8/20/21	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jake Swanson
SIGNATURE of SAMPLER: [signature]
DATE Signed: 8/20/21

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 3 of 4

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	~~Yates AP-2~~ ~~CDG~~
Project Number:	UPGRADIENT

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kevin Herring/Nicole D'oleo
Pace Profile #:	10840

Regulatory Agency	
CCR	
State / Location	GA

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

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

Requested Analysis Filtered (Y/N). Analyses Test: TDS: 2450C; Anions Suite 300.0; App III Metals; App IV Metals (No Tl) OR Mercury; Radium 226/228 9315/9320

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	Start DATE	Start TIME	End DATE	End TIME	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Radium 226/228	Residual Chlorine (Y/N)
1	~~[illegible]~~	WT	G					x	x	x	x	x	pH
2	~~AP-2-EB-2~~	WT	G					x	x	x	x	x	pH
3	~~[illegible]~~	WT	G					x	x	x	x	x	pH
4	~~[illegible]~~	WT	G					x	x	x	x	x	pH
5	~~[illegible]~~ YGWA-1D	WT	G	8/19	1110			x	x	x	x	x	pH 6.32
6	~~[illegible]~~ YGWA-1I	WT	G	8/19	1249			x	x	x	x	x	pH 6.38
7	~~[illegible]~~ YGWA-3D	WT	G	8/19	1445			x	1x	x	x	x	pH 5.34
8	~~[illegible]~~	WT	G					x	x	x	x	x	pH
9	~~[illegible]~~	WT	G					x	x	x	x	x	pH
10	~~YGWC-28S~~	WT	G	~~8/20~~	~~1124~~			x	x	x	x	x	pH
11	~~[illegible]~~	WT	G					x	x	x	x	x	pH
12	~~YGWC-29I~~	WT	G	~~8/20~~	~~938~~			x	x	x	x	x	pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	8/20	1730	[signature]	8/20/21	1740	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chese

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/21

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 4 Of 4

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	[redacted]-1 (upgradient)	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals (B & Ca)	App IV Metals	Mercury 7470A	Radium 228/226 9015/9320	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	08/19	1005	08/19	1026			X		X							X	X	X	X	X	X		pH ~~4.50~~ 5.50
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/20	1730				5.0	Y	N	Y
App III Metals: Boron 6020B Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92557720

PM: NMG Due Date: 09/09/21

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 8/27/21 CAH

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

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

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

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A
Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B
Required Project Information:

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

Section C
Invoice Information:

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

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 228/226: 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)	Residual Chlorine (Y/N)
1	~~YGWA-24~~	WT	G															x	x	x	x	x			x	pH:
2	YGWA-39	WT	G	8-26-21	1235					2		3						x	x	x	x	x			x	pH 6.91
3	~~YGWA-40~~	WT	G															x	x	x	x	x			x	pH:
4		WT	G																							
5		WT	G																							
6		WT	G																							
7		WT	G																							
8		WT	G																							
9		WT	G																							
10		WT	G																							
11		WT	G																							
12		WT	G																							

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Ssulfate)	Kate Pipkiewicz Arcadis	8-26-21	1410		8/26	1410	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640	Charlie Hunter	8/27/21	1640	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co) Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER:	Kate Pipkiewicz						
SIGNATURE of SAMPLER:		DATE Signed:	8-26-21	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92558251

92558251

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

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

Date/Initials Person Examining Contents: 8/27/21 CAM

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

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

Thermometer: ☑ IR Gun ID: 083

☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Yates AP-2 (upgradient)
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228: 9315/9320	Residual Chlorine (Y/N)	
	YGWA-2I	WT	G	8/27/24	1133				4	X		X							X	X	X	X	X		pH 7.14
	YGWA-3I	WT	G	8/27/24	0955				4	X		X							X	X	X	X	X		pH 7.39

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/27/24	1440		8/27	1440	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640		8/27	1640	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER:

DATE Signed:

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92558254

92558254

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

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

Date/Initials Person Examining Contents: 8/27/21 CAH

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

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

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

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	AMA-EB-1	WT																	X	X	X	X			
2	AMA EB-2	WT																	X	X	X	X			
3	AMA-FB-1	WT																	X	X	X	X			
4	AMA-FB-2	WT																	X	X	X	X			
5	UP-EB-1	WT																	X	X	X	X			
6	UP-FB-1	WT		8/26/21	1710				5	X		X							X	X	X	X			
7	~~UP-EB-2~~	WT																	X	X	X	X			
8	UP-FB-2	WT																	X	X	X	X			
9	YGWA-4I	WT		8/26/21	1124				5	X		X							X	X	X	X			5.82
10	YGWA-5I	WT		8/26/21	1628				5	X		X							X	X	X	X			5.51 SU
11	UP-DUP-3	WT		8/26/21	-				5	X		X							X	X	X	X			-
12	YGWA-5D	WT		8/26/21	1355				5	X		X							X	X	X	X			7.16 SU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	8/27/21	1640	[signature]	8/27/21	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/21

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AMA	Pace Project Manager:	nicole.d'olac@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency

State / Location: GA

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
13	YGWA-17S	WT		8/27	1045				5	✓		✓								x	x	x	x			Ph: 5.27
14	~~YGWA-18S~~ JS YGWA-18S	WT		8/26	1535				5	✓		✓								x	x	x	x			Ph: 4.40
15	YGWA-18I	WT		8/27	0935				5	✓		✓								x	x	x	x			Ph: 5.40
16	YGWA-20S	WT		8/27	1310				5	✓		✓								x	x	x	x			Ph: 5.37
17	YGWA-21I	WT																		x	x	x	x			
18	YGWC-23S	WT																		x	x	x	x	x		
19	YGWC-24SA	WT																		x	x	x	x			
20	AMA-DUP-1	WT																		x	x	x	x			
21	YGWC-36A	WT																		x	x	x	x	x		
22	YGWC-49	WT																		x	x	x	x			
23	AMA-EB-1			8/26	1600				5											x	x	x	x			
24	AMA-EB-2			8/27	1340				5											x	x	x	x			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	8/27			8/27/24	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/24

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92558254

PM: NMG **Due Date: 09/13/21**
CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/2/21 KeW

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

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

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 **Correction Factor:** Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	~~SCS Contacts~~ Becky Steed
Copy To:	~~Arcadis Contacts~~
Purchase Order #:	
Project Name:	Yates AMA-[redacted]
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 9315/9320	Alkalinity	Cations (Na, K, Mg, Ca)	Residual Chlorine (Y/N)
1	~~UP-EB-1~~ JJ	WT	G																x	x	x	x	x			--
2	~~UP-FB-1~~ JS	WT	G																x	x	x	x	x			--
3	~~UP-EB-2~~ JS	WT	G																x	x	x	x	x			--
4	~~UP-FB-2~~ JS	WT	G																x	x	x	x	x			--
5	~~YGWA-4I~~ JS	WT	G																x	x	x	x	x	x		pH:
6	~~YGWA-5I~~ JS	WT	G																x	x	x	x	x			pH:
7	~~UP-DUP-3~~ JS	WT	G		--														x	x	x	x	x			pH:
8	~~YGWA-6D~~ JS	WT	G																x	x	x	x	x	x		pH:
9	~~YGWA-17S~~ JS	WT	G																x	x	x	x	x			pH:
10	~~YGWA-18S~~ JS AMA-DUP-1	WT	G	9/1	--				5	✓		✓							x	x	x	x	x	6020B		pH:
11	~~YGWA-18I~~ JS YGWC-245A	WT	G	9/1	1025				5	✓		✓							x	x	x	x	x	6020B		pH: 5.22
12	~~YGWA-20S~~ YGWA-21I	WT	G	9/1	1440				5	✓		✓							x	x	x	x	x			pH: 6.65

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl,F, sulfate)	/Arcadis	9/2/21	1530	/Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 6010D		9/2/21	1702	/Pace	9/2/21	1702	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

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

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

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

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

Sample Condition Upon Receipt

Client Name: ARCADIS - GA Power **Project:**

WO# : 92559527

92559527

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

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

Date/Initials Person Examining Contents: 9/3/21 CM

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

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

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 5.0

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	(pH) 9/3/21 DW W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A — Required Client Information:

Company:	Arcadis (GA Power)
Address:	2839 Paces Ferry Rd
	Suite 900, Atlanta, GA 30339
Email	
Phone:	Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	Becky Steever
Copy To:	
Purchase Order #:	
Project Name:	Yates R6
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	nicole.d'oleo@pacelabs.com
Pace Profile #:	10840

Regulatory Agency	
State / Location	GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Collected Start DATE	Collected Start TIME	Collected End DATE	Collected End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	~~YGWA-30~~	WT																	X	X		X	X	X		
2	YGWA-40	WT		9/3/21	1020														X	X		X	X	X		425
3	~~YGWC-38~~	WT																	X	X		X	X	X		
4	~~YGWC-41~~	WT																	X	X		X	X	X		
5	~~AMA-DUP-2~~	WT																	X	X			X			
6	~~YGWC-42~~	WT																	X	X		X	X	X		
7	~~YGWC-43~~	WT																	X	X		X	X	X		
8	~~AP-1-EB-1~~	WT																			X					
9	~~AP-1-FB-1~~	WT																			X					
10	~~YGWA-47~~	WT																			X					
11	~~YGWC-52~~	WT																			X					
12	~~YGWC-44~~	WT																			X					

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / ASS	9/3/21	1730	[signature] / [illegible]	9/3/21	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/3/21

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

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

October 01, 2021

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

RE: Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 20, 2021 and September 03, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Nicole D'Oleo

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

Enclosures

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

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

CERTIFICATIONS

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

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

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

SAMPLE SUMMARY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557070001	**UP-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557070002	**GWA-2**	Water	08/20/21 12:00	08/20/21 17:30
92557070003	**YGWA-14S**	Water	08/19/21 11:00	08/20/21 17:30
92557070004	**UP-DUP-2**	Water	08/19/21 00:00	08/20/21 17:30
92557070005	**YGWA-1D**	Water	08/19/21 11:10	08/20/21 17:30
92557070006	**YGWA-1I**	Water	08/19/21 12:49	08/20/21 17:30
92557070007	**YGWA-3D**	Water	08/19/21 14:45	08/20/21 17:30
92557070008	**YGWA-47**	Water	08/19/21 10:26	08/20/21 17:30
92557070009	**YGWA-30I**	Water	08/19/21 12:20	08/20/21 17:30
92557719005	**YGWA-39**	Water	08/26/21 12:30	08/27/21 16:40
92558240001	**UP-FB-2**	Water	08/26/21 17:10	08/27/21 16:40
92558240002	**YGWA-4I**	Water	08/26/21 11:29	08/27/21 16:40
92558240003	**YGWA-5I**	Water	08/26/21 16:28	08/27/21 16:40
92558240004	**UP-DUP-3**	Water	08/26/21 00:00	08/27/21 16:40
92558240005	**YGWA-5D**	Water	08/26/21 13:35	08/27/21 16:40
92558240006	**YGWA-17S**	Water	08/27/21 10:45	08/27/21 16:40
92558240007	**YGWA-18S**	Water	08/26/21 15:35	08/27/21 16:40
92558240008	**YGWA-18I**	Water	08/27/21 09:35	08/27/21 16:40
92558240009	**YGWA-20S**	Water	08/27/21 13:10	08/27/21 16:40
92558240014	**YGWA-21I**	Water	09/01/21 14:40	09/02/21 17:02
92559523001	**YGWA-40**	Water	09/03/21 10:20	09/03/21 17:30
92558238001	**YGWA-2I**	Water	08/27/21 11:33	08/27/21 16:40
92558238002	**YGWA-3I**	Water	08/27/21 09:55	08/27/21 16:40

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92557070001	**UP-DUP-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070002	**GWA-2**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070003	**YGWA-14S**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070004	**UP-DUP-2**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070005	**YGWA-1D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070006	**YGWA-1I**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070007	**YGWA-3D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070008	**YGWA-47**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070009	**YGWA-30I**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557719005	**YGWA-39**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240001	**UP-FB-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240002	**YGWA-4I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240003	**YGWA-5I**	EPA 9315	LAL	1	PASI-PA

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240004	**UP-DUP-3**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240005	**YGWA-5D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240006	**YGWA-17S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240007	**YGWA-18S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240008	**YGWA-18I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240009	**YGWA-20S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240014	**YGWA-21I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559523001	**YGWA-40**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558238001	**YGWA-2I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558238002	**YGWA-3I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070001	**UP-DUP-1**					
EPA 9315	Radium-226	0.325 ± 0.195 (0.307) C:88% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.333 ± 0.342 (0.704) C:73% T:85%	pCi/L		09/17/21 14:11	
Total Radium Calculation	Total Radium	0.658 ± 0.537 (1.01)	pCi/L		09/21/21 16:29	
92557070002	**GWA-2**					
EPA 9315	Radium-226	0.0454 ± 0.104 (0.246) C:86% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.483 ± 0.364 (0.713) C:74% T:88%	pCi/L		09/17/21 14:11	
Total Radium Calculation	Total Radium	0.528 ± 0.468 (0.959)	pCi/L		09/21/21 16:29	
92557070003	**YGWA-14S**					
EPA 9315	Radium-226	0.00466 ± 0.157 (0.433) C:93% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.781 ± 0.436 (0.776) C:74% T:80%	pCi/L		09/17/21 14:03	
Total Radium Calculation	Total Radium	0.786 ± 0.593 (1.21)	pCi/L		09/21/21 16:29	
92557070004	**UP-DUP-2**					
EPA 9315	Radium-226	0.111 ± 0.167 (0.360) C:99% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	1.08 ± 0.491 (0.804) C:74% T:78%	pCi/L		09/17/21 14:03	
Total Radium Calculation	Total Radium	1.19 ± 0.658 (1.16)	pCi/L		09/21/21 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070005	**YGWA-1D**					
EPA 9315	Radium-226	0.276 ± 0.229 (0.401) C:93% T:NA	pCi/L		09/20/21 15:29	
EPA 9320	Radium-228	0.894 ± 0.489 (0.876) C:74% T:84%	pCi/L		09/17/21 14:25	
Total Radium Calculation	Total Radium	1.17 ± 0.718 (1.28)	pCi/L		09/21/21 16:29	
92557070006	**YGWA-1I**					
EPA 9315	Radium-226	0.0732 ± 0.237 (0.573) C:99% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	-0.218 ± 0.601 (1.45) C:73% T:84%	pCi/L		09/17/21 17:11	
Total Radium Calculation	Total Radium	0.0732 ± 0.838 (2.02)	pCi/L		09/21/21 16:29	
92557070007	**YGWA-3D**					
EPA 9315	Radium-226	1.67 ± 0.511 (0.447) C:93% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	1.86 ± 0.774 (1.22) C:70% T:83%	pCi/L		09/17/21 17:11	
Total Radium Calculation	Total Radium	3.53 ± 1.29 (1.67)	pCi/L		09/21/21 16:29	
92557070008	**YGWA-47**					
EPA 9315	Radium-226	0.309 ± 0.197 (0.329) C:88% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	0.757 ± 0.724 (1.50) C:68% T:81%	pCi/L		09/17/21 17:12	
Total Radium Calculation	Total Radium	1.07 ± 0.921 (1.83)	pCi/L		09/21/21 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070009	**YGWA-30I**					
EPA 9315	Radium-226	0.234 ± 0.232 (0.450) C:95% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	-0.0548 ± 0.544 (1.29) C:67% T:77%	pCi/L		09/17/21 17:12	
Total Radium Calculation	Total Radium	0.234 ± 0.776 (1.74)	pCi/L		09/21/21 16:29	
92557719005	**YGWA-39**					
EPA 9315	Radium-226	0.674 ± 0.261 (0.318) C:90% T:NA	pCi/L		09/21/21 09:36	
EPA 9320	Radium-228	-0.0610 ± 0.461 (1.09) C:74% T:82%	pCi/L		09/17/21 17:18	
Total Radium Calculation	Total Radium	0.674 ± 0.722 (1.41)	pCi/L		09/22/21 16:02	
92558240001	**UP-FB-2**					
EPA 9315	Radium-226	0.0312 ± 0.148 (0.376) C:98% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.327 ± 0.417 (0.886) C:79% T:79%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.358 ± 0.565 (1.26)	pCi/L		09/24/21 14:36	
92558240002	**YGWA-4I**					
EPA 9315	Radium-226	0.752 ± 0.313 (0.359) C:94% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.419 ± 0.429 (0.888) C:82% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	1.17 ± 0.742 (1.25)	pCi/L		09/24/21 14:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558240003	**YGWA-5I**					
EPA 9315	Radium-226	0.173 ± 0.181 (0.351) C:91% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.625 ± 0.402 (0.752) C:81% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.798 ± 0.583 (1.10)	pCi/L		09/24/21 14:36	
92558240004	**UP-DUP-3**					
EPA 9315	Radium-226	0.101 ± 0.197 (0.455) C:96% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.620 ± 0.425 (0.816) C:81% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.721 ± 0.622 (1.27)	pCi/L		09/24/21 14:36	
92558240005	**YGWA-5D**					
EPA 9315	Radium-226	3.80 ± 0.816 (0.373) C:102% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.883 ± 0.429 (0.726) C:80% T:82%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	4.68 ± 1.25 (1.10)	pCi/L		09/24/21 14:36	
92558240006	**YGWA-17S**					
EPA 9315	Radium-226	0.438 ± 0.263 (0.394) C:86% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.462 ± 0.373 (0.739) C:81% T:81%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.900 ± 0.636 (1.13)	pCi/L		09/24/21 14:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558240007	**YGWA-18S**					
EPA 9315	Radium-226	0.145 ± 0.161 (0.309) C:95% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.541 ± 0.396 (0.768) C:77% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.686 ± 0.557 (1.08)	pCi/L		09/24/21 14:36	
92558240008	**YGWA-18I**					
EPA 9315	Radium-226	0.104 ± 0.171 (0.381) C:97% T:NA	pCi/L		09/22/21 08:45	
EPA 9320	Radium-228	0.657 ± 0.507 (1.01) C:73% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.761 ± 0.678 (1.39)	pCi/L		09/24/21 14:36	
92558240009	**YGWA-20S**					
EPA 9315	Radium-226	0.632 ± 0.313 (0.451) C:95% T:NA	pCi/L		09/22/21 08:11	
EPA 9320	Radium-228	0.147 ± 0.402 (0.898) C:74% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.779 ± 0.715 (1.35)	pCi/L		09/24/21 14:36	
92558240014	**YGWA-21I**					
EPA 9315	Radium-226	0.934 ± 0.290 (0.223) C:90% T:NA	pCi/L		09/22/21 09:39	
EPA 9320	Radium-228	0.924 ± 0.466 (0.823) C:76% T:81%	pCi/L		09/20/21 11:13	
Total Radium Calculation	Total Radium	1.86 ± 0.756 (1.05)	pCi/L		09/27/21 15:44	

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92559523001	**YGWA-40**					
EPA 9315	Radium-226	0.350 ± 0.172 (0.206) C:91% T:NA	pCi/L		09/22/21 09:39	
EPA 9320	Radium-228	0.621 ± 0.450 (0.877) C:75% T:74%	pCi/L		09/20/21 11:13	
Total Radium Calculation	Total Radium	0.971 ± 0.622 (1.08)	pCi/L		09/24/21 14:38	
92558238001	**YGWA-2I**					
EPA 9315	Radium-226	0.284 ± 0.258 (0.500) C:96% T:NA	pCi/L		09/22/21 12:05	
EPA 9320	Radium-228	0.125 ± 0.379 (0.851) C:76% T:80%	pCi/L		09/20/21 11:11	
Total Radium Calculation	Total Radium	0.409 ± 0.637 (1.35)	pCi/L		09/24/21 14:37	
92558238002	**YGWA-3I**					
EPA 9315	Radium-226	1.01 ± 0.368 (0.461) C:97% T:NA	pCi/L		09/22/21 12:05	
EPA 9320	Radium-228	0.328 ± 0.385 (0.811) C:81% T:81%	pCi/L		09/20/21 11:12	
Total Radium Calculation	Total Radium	1.34 ± 0.753 (1.27)	pCi/L		09/24/21 14:37	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-1 **Lab ID: 92557070001** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.325 ± 0.195 (0.307) C:88% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.333 ± 0.342 (0.704) C:73% T:85%**	pCi/L	09/17/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.658 ± 0.537 (1.01)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: GWA-2 **Lab ID: 92557070002** Collected: 08/20/21 12:00 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0454 ± 0.104 (0.246) C:86% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.483 ± 0.364 (0.713) C:74% T:88%**	pCi/L	09/17/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.528 ± 0.468 (0.959)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-14S **Lab ID: 92557070003** Collected: 08/19/21 11:00 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00466 ± 0.157 (0.433) C:93% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.781 ± 0.436 (0.776) C:74% T:80%**	pCi/L	09/17/21 14:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.786 ± 0.593 (1.21)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-2 **Lab ID: 92557070004** Collected: 08/19/21 00:00 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.111 ± 0.167 (0.360) C:99% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.08 ± 0.491 (0.804) C:74% T:78%**	pCi/L	09/17/21 14:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.658 (1.16)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-1D **Lab ID: 92557070005** Collected: 08/19/21 11:10 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.276 ± 0.229 (0.401) C:93% T:NA**	pCi/L	09/20/21 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.894 ± 0.489 (0.876) C:74% T:84%**	pCi/L	09/17/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.718 (1.28)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-1I **Lab ID: 92557070006** Collected: 08/19/21 12:49 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0732 ± 0.237 (0.573) C:99% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.218 ± 0.601 (1.45) C:73% T:84%**	pCi/L	09/17/21 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0732 ± 0.838 (2.02)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-3D **Lab ID: 92557070007** Collected: 08/19/21 14:45 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.67 ± 0.511 (0.447) C:93% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.86 ± 0.774 (1.22) C:70% T:83%**	pCi/L	09/17/21 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.53 ± 1.29 (1.67)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-47 **Lab ID: 92557070008** Collected: 08/19/21 10:26 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.309 ± 0.197 (0.329) C:88% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.757 ± 0.724 (1.50) C:68% T:81%**	pCi/L	09/17/21 17:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.921 (1.83)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-30I **Lab ID: 92557070009** Collected: 08/19/21 12:20 Received: 08/20/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.234 ± 0.232 (0.450) C:95% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0548 ± 0.544 (1.29) C:67% T:77%**	pCi/L	09/17/21 17:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.234 ± 0.776 (1.74)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-39 **Lab ID: 92557719005** Collected: 08/26/21 12:30 Received: 08/27/21 16:40 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	**0.674 ± 0.261 (0.318) C:90% T:NA**	pCi/L	09/21/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0610 ± 0.461 (1.09) C:74% T:82%**	pCi/L	09/17/21 17:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.674 ± 0.722 (1.41)**	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-FB-2 **Lab ID: 92558240001** Collected: 08/26/21 17:10 Received: 08/27/21 16:40 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	**0.0312 ± 0.148 (0.376) C:98% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.327 ± 0.417 (0.886) C:79% T:79%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.358 ± 0.565 (1.26)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-4I **Lab ID: 92558240002** Collected: 08/26/21 11:29 Received: 08/27/21 16:40 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	**0.752 ± 0.313 (0.359) C:94% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.429 (0.888) C:82% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.742 (1.25)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-5I **Lab ID: 92558240003** Collected: 08/26/21 16:28 Received: 08/27/21 16:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 9315	**0.173 ± 0.181 (0.351) C:91% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 9320	**0.625 ± 0.402 (0.752) C:81% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.798 ± 0.583 (1.10)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-3 **Lab ID: 92558240004** Collected: 08/26/21 00:00 Received: 08/27/21 16:40 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	**0.101 ± 0.197 (0.455) C:96% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.620 ± 0.425 (0.816) C:81% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.721 ± 0.622 (1.27)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-5D **Lab ID: 92558240005** Collected: 08/26/21 13:35 Received: 08/27/21 16:40 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	**3.80 ± 0.816 (0.373) C:102% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.883 ± 0.429 (0.726) C:80% T:82%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.68 ± 1.25 (1.10)**	pCi/L	09/24/21 14:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-17S **Lab ID: 92558240006** Collected: 08/27/21 10:45 Received: 08/27/21 16:40 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	**0.438 ± 0.263 (0.394) C:86% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462 ± 0.373 (0.739) C:81% T:81%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.900 ± 0.636 (1.13)**	pCi/L	09/24/21 14:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-18S **Lab ID: 92558240007** Collected: 08/26/21 15:35 Received: 08/27/21 16:40 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	**0.145 ± 0.161 (0.309) C:95% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.541 ± 0.396 (0.768) C:77% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686 ± 0.557 (1.08)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-18I **Lab ID: 92558240008** Collected: 08/27/21 09:35 Received: 08/27/21 16:40 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	**0.104 ± 0.171 (0.381) C:97% T:NA**	pCi/L	09/22/21 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.657 ± 0.507 (1.01) C:73% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.761 ± 0.678 (1.39)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-20S **Lab ID: 92558240009** Collected: 08/27/21 13:10 Received: 08/27/21 16:40 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	**0.632 ± 0.313 (0.451) C:95% T:NA**	pCi/L	09/22/21 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.147 ± 0.402 (0.898) C:74% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.779 ± 0.715 (1.35)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-21I **Lab ID: 92558240014** Collected: 09/01/21 14:40 Received: 09/02/21 17:02 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	**0.934 ± 0.290 (0.223) C:90% T:NA**	pCi/L	09/22/21 09:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.924 ± 0.466 (0.823) C:76% T:81%**	pCi/L	09/20/21 11:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.86 ± 0.756 (1.05)**	pCi/L	09/27/21 15:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-40 **Lab ID: 92559523001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.350 ± 0.172 (0.206) C:91% T:NA**	pCi/L	09/22/21 09:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.621 ± 0.450 (0.877) C:75% T:74%**	pCi/L	09/20/21 11:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.971 ± 0.622 (1.08)**	pCi/L	09/24/21 14:38	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-2I **Lab ID: 92558238001** Collected: 08/27/21 11:33 Received: 08/27/21 16:40 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	**0.284 ± 0.258 (0.500) C:96% T:NA**	pCi/L	09/22/21 12:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.125 ± 0.379 (0.851) C:76% T:80%**	pCi/L	09/20/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.409 ± 0.637 (1.35)**	pCi/L	09/24/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-3I **Lab ID: 92558238002** Collected: 08/27/21 09:55 Received: 08/27/21 16:40 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 ± 0.368 (0.461) C:97% T:NA**	pCi/L	09/22/21 12:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.328 ± 0.385 (0.811) C:81% T:81%**	pCi/L	09/20/21 11:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.34 ± 0.753 (1.27)**	pCi/L	09/24/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463915
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

METHOD BLANK: 2239836 Matrix: Water
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0847 ± 0.121 (0.363) C:95% T:NA	pCi/L	09/22/21 09:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463401 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

METHOD BLANK: 2237310 Matrix: Water
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0856 ± 0.0647 (0.268) C:96% T:NA	pCi/L	09/20/21 15:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463405 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

METHOD BLANK: 2237315 Matrix: Water
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0923 ± 0.177 (0.406) C:93% T:NA	pCi/L	09/22/21 08:46	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463403 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

METHOD BLANK: 2237313 Matrix: Water
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.433 ± 0.419 (0.858) C:81% T:72%	pCi/L	09/20/21 14:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463914
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

METHOD BLANK: 2239835 Matrix: Water
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.493 ± 0.373 (0.728) C:78% T:74%	pCi/L	09/20/21 11:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463398
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

METHOD BLANK: 2237303 Matrix: Water
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.384 ± 0.355 (0.721) C:77% T:80%	pCi/L	09/17/21 14:10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557070001	UP-DUP-1	EPA 9315	463401		
92557070002	GWA-2	EPA 9315	463401		
92557070003	YGWA-14S	EPA 9315	463401		
92557070004	UP-DUP-2	EPA 9315	463401		
92557070005	YGWA-1D	EPA 9315	463401		
92557070006	YGWA-1I	EPA 9315	463401		
92557070007	YGWA-3D	EPA 9315	463401		
92557070008	YGWA-47	EPA 9315	463401		
92557070009	YGWA-30I	EPA 9315	463401		
92557719005	YGWA-39	EPA 9315	463401		
92558238001	YGWA-2I	EPA 9315	463915		
92558238002	YGWA-3I	EPA 9315	463915		
92558240001	UP-FB-2	EPA 9315	463405		
92558240002	YGWA-4I	EPA 9315	463405		
92558240003	YGWA-5I	EPA 9315	463405		
92558240004	UP-DUP-3	EPA 9315	463405		
92558240005	YGWA-5D	EPA 9315	463405		
92558240006	YGWA-17S	EPA 9315	463405		
92558240007	YGWA-18S	EPA 9315	463405		
92558240008	YGWA-18I	EPA 9315	463405		
92558240009	YGWA-20S	EPA 9315	463405		
92558240014	YGWA-21I	EPA 9315	463915		
92559523001	YGWA-40	EPA 9315	463915		
92557070001	UP-DUP-1	EPA 9320	463398		
92557070002	GWA-2	EPA 9320	463398		
92557070003	YGWA-14S	EPA 9320	463398		
92557070004	UP-DUP-2	EPA 9320	463398		
92557070005	YGWA-1D	EPA 9320	463398		
92557070006	YGWA-1I	EPA 9320	463398		
92557070007	YGWA-3D	EPA 9320	463398		
92557070008	YGWA-47	EPA 9320	463398		
92557070009	YGWA-30I	EPA 9320	463398		
92557719005	YGWA-39	EPA 9320	463398		
92558238001	YGWA-2I	EPA 9320	463914		
92558238002	YGWA-3I	EPA 9320	463914		
92558240001	UP-FB-2	EPA 9320	463403		
92558240002	YGWA-4I	EPA 9320	463403		
92558240003	YGWA-5I	EPA 9320	463403		
92558240004	UP-DUP-3	EPA 9320	463403		
92558240005	YGWA-5D	EPA 9320	463403		
92558240006	YGWA-17S	EPA 9320	463403		
92558240007	YGWA-18S	EPA 9320	463403		
92558240008	YGWA-18I	EPA 9320	463403		
92558240009	YGWA-20S	EPA 9320	463403		
92558240014	YGWA-21I	EPA 9320	463914		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559523001	**YGWA-40**	EPA 9320	463914		
92557070001	**UP-DUP-1**	Total Radium Calculation	464972		
92557070002	**GWA-2**	Total Radium Calculation	464972		
92557070003	**YGWA-14S**	Total Radium Calculation	464972		
92557070004	**UP-DUP-2**	Total Radium Calculation	464972		
92557070005	**YGWA-1D**	Total Radium Calculation	464972		
92557070006	**YGWA-1I**	Total Radium Calculation	464973		
92557070007	**YGWA-3D**	Total Radium Calculation	464973		
92557070008	**YGWA-47**	Total Radium Calculation	464973		
92557070009	**YGWA-30I**	Total Radium Calculation	464973		
92557719005	**YGWA-39**	Total Radium Calculation	465155		
92558238001	**YGWA-2I**	Total Radium Calculation	465555		
92558238002	**YGWA-3I**	Total Radium Calculation	465555		
92558240001	**UP-FB-2**	Total Radium Calculation	465554		
92558240002	**YGWA-4I**	Total Radium Calculation	465554		
92558240003	**YGWA-5I**	Total Radium Calculation	465554		
92558240004	**UP-DUP-3**	Total Radium Calculation	465554		
92558240005	**YGWA-5D**	Total Radium Calculation	465554		
92558240006	**YGWA-17S**	Total Radium Calculation	465554		
92558240007	**YGWA-18S**	Total Radium Calculation	465554		
92558240008	**YGWA-18I**	Total Radium Calculation	465554		
92558240009	**YGWA-20S**	Total Radium Calculation	465554		
92558240014	**YGWA-21I**	Total Radium Calculation	465783		
92559523001	**YGWA-40**	Total Radium Calculation	465559		

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92557089

92557089

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

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

Date/Initials Person Examining Contents: 8/23/21 cm

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

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

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

Type of Ice:

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. EB-1 + FB-1 Collection time not listed on COC but containers are on AP2 Work Order
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To: SCS and Arcadis Contacts	Purchase Order #: UPGRADIENT	Pace Quote:
Phone: Fax:	Project Name: ~~Yates Gypsum Pond Groundwater~~	Pace Project Manager: Kevin Herring/Nicole D'Oleo
Requested Due Date: 10 Day	Project Number:	Pace Profile #: 10840

Regulatory Agency
CCR
State / Location
GA

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and III Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
1	UP-DUP-1	WT	G	8/20	—														x	x	x	x	x	x	x		pH 5.86
2	GWA-2	WT	G	8/20	1200					5	✓		✓						x	x	x	x	x	x	x		pH 5.36
3		WT	G																								
4		WT	G																								
5		WT	G																								
6		WT	G																								
7		WT	G																								
8		WT	G																								
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/20	1730		8/20/21	1745	5.0	Y	N	Y
App III Metals: Boron 6020B, Ca 6010D										
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/20/21

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 4

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: ~~Yates 316-2~~ UG	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-2-EB-1~~	WT		~~8/20~~	1070	8/20			5	✓		✓							X	X	X	X	—
2	~~AP-2-EB-2~~	WT																	X	X	X	X	
3	AP-2-FB-1	WT		8/19	1530	8/20			5	✓		✓							X	X	X	X	—
4	~~AP-2-FB-2~~	WT																	X	X	X	X	
5	~~YGWA-1I~~	WT																	X	X	X	X	
6	~~YGWA-1D~~	WT																	X	X	X	X	
7	~~YGWA-2I~~	WT																	X	X	X	X	
8	~~MGWA-3I~~	WT																	X	X	X	X	
9	~~YGWA-3D~~	WT																	X	X	X	X	
10	YGWA-14S	WT		8/19	~~1332~~		1100		4	✓		✓							X	X	X	X	Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							X	X	X	X	—
12	~~YGWA-9S~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		8/20	1730		8/21/12	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical®

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Page : 2 Of 4

Section A — Required Client Information:
- Company: Arcadis (GA Power)
- Address: 2839 Paces Ferry Rd
- Suite 900, Atlanta, GA 30339
- Email:
- Phone: Fax:
- Requested Due Date:

Section B — Required Project Information:
- Report To: Becky Steever
- Copy To:
- Purchase Order #:
- Project Name: ~~Yates~~ UG
- Project #:

Section C — Invoice Information:
- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: nicole d'oleo@pacelabs.com
- Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~AP-PEB-1~~	WT		8/20	1020	JS			5	✓		✓						X	X	X	X		—
2	~~AP-2-EB-2~~	WT																X	X	X	X		
3	~~AP-2-FB-1~~	WT		8/17	1530	JS			5	✓		✓						X	X	X	X		—
4	~~PB-2-CE-2~~	WT																X	X	X	X		
5	~~YGWA-1I~~	WT																X	X	X	X		
6	~~YGWA-1D~~	WT																X	X	X	X		
7	~~YGWA-2I~~	WT																X	X	X	X		
8	~~YGWA-3I~~	WT																X	X	X	X		
9	~~YGWA-3D~~	WT																X	X	X	X		
10	YGWA-14S	WT		8/19	~~1330~~		1100		4	✓		✓						X	X	X	X		PH: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓						X	X	X	X		—
12	~~YGWA-~~ JS YGWA-30I	WT		8/19	1220				4	✓		✓						X	X	X	X		PH: 5.43 JS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	8/20	1730	[signature]	8/20/21	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/2

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 3 of 4

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	~~Yates AP-2~~ ~~CDG~~
Project Number:	UPGRADIENT

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kevin Herring/Nicole D'oleo
Pace Profile #:	10840

Regulatory Agency	State / Location
CCR	GA

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl) OR Mercury	Radium 226/228 9315/9320	Residual Chlorine (Y/N)	
1	~~AP-2-EB-1~~	WT	G																x	x	x	x	x		pH
2	~~AP-2-EB-2~~	WT	G																x	x	x	x	x		pH
3	~~AP-2-FB-1~~	WT	G																x	x	x	x	x		pH
4	~~AP-2-FB-2~~	WT	G																x	x	x	x	x		pH
5	~~YGWC-28S~~ YGWA-1D	WT	G	8/19	1110														x	x	x	x	x		pH 6.32
6	~~YGWC-28I~~ YGWA-1I	WT	G	8/19	1249														x	x	x	x	x		pH 6.38
7	~~AP-2-DUP-1~~ YGWA-3D	WT	G	8/19	1445														x	x	x	x	x		pH 5.34
8	~~YGWC-XX~~	WT	G																x	x	x	x	x		pH
9	~~YGWC-27~~	WT	G																x	x	x	x	x		pH
10	~~YGWC-28S~~	WT	G	~~8/20~~	~~1124~~														x	x	x	x	x		pH
11	~~YGWC-28I~~	WT	G																x	x	x	x	x		pH
12	~~YGWC-29I~~	WT	G	~~8/20~~	~~938~~														x	x	x	x	x		pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/20	1730	[signature]	8/20/21	1740	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 4 Of 4

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	[redacted]-1 (upgradient)	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals (B & Ca)	App IV Metals	Mercury: 7470A	Radium 228/226: 9315/9320	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	08/19	1005	08/19	1026			X		X							X	X	X	X	X	X		pH 5.50
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/20	1730		8/20	1730	5.0	Y	N	Y
App III Metals: Boron 6020B Ca 6010D										
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92557720

PM: NMG Due Date: 09/09/21

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 8/27/21 CAH

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

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

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

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 3.0

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A
Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B
Required Project Information:

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

Section C
Invoice Information:

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

Regulatory Agency
CCR
State / Location
GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 228/226: 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)	Residual Chlorine (Y/N)
1	~~YGWA-24~~	WT	G																							
2	YGWA-39	WT	G	8-26-21	1235					2		3						x	x	x	x	x			x	pH:
3	~~YGWA-40~~	WT	G															x	x	x	x	x			x	pH 6.91
4		WT	G															x	x	x	x	x			x	pH:
5		WT	G																							
6		WT	G																							
7		WT	G																							
8		WT	G																							
9		WT	G																							
10		WT	G																							
11		WT	G																							
12		WT	G																							

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Ssulfate)	Kate Pipkiewicz / Arcadis	8.26.21	1410		8/26	1410
App III Metals: Boron 6020B, Ca 6010D		8/27	1640	Charlie Hunter	8/27/21	1640
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co) Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)						

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Kate Pipkiewicz				
SIGNATURE of SAMPLER:		DATE Signed:	8-26-21		

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92558251

92558251

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

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

Date/Initials Person Examining Contents: 8/27/21 CAM

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

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

Thermometer: ☑ IR Gun ID: 083

☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Yates AP-2 (upgradient)
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228: 9315/9320	Residual Chlorine (Y/N)
	YGWA-2I	WT	G	8/27/14	1133				4	X		X							X	X	X	X	X	pH 7.14
	YGWA-3I	WT	G	8/27/14	0955				4	X		X							X	X	X	X	X	pH 7.39

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/27/14	1440		8/27	1440	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640		8/27	1640	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER:

DATE Signed:

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92558254

92558254

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

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

Date/Initials Person Examining Contents: 8/27/21 CAH

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

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

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

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 3.0

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	AMA-EB-1	WT																	X	X	X	X			
2	AMA EB-2	WT																	X	X	X	X			
3	AMA-FB-1	WT																	X	X	X	X			
4	AMA-FB-2	WT																	X	X	X	X			
5	UP-EB-1	WT																	X	X	X	X			
6	UP-FB-1	WT		8/26/21	1710				5	X		X							X	X	X	X			
7	~~UP-EB-2~~	WT																	X	X	X	X			
8	UP-FB-2	WT																	X	X	X	X			
9	YGWA-4I	WT		8/26/21	1124				5	X		X							X	X	X	X		5.82	
10	YGWA-5I	WT		8/26/21	1628				5	X		X							X	X	X	X		5.51 SU	
11	UP-DUP-3	WT		8/26/21	-				5	X		X							X	X	X	X		-	
12	YGWA-5D	WT		8/26/21	1355				5	X		X							X	X	X	X		7.16 SU	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / Arc	8/27/21	1640	[signature]	8/27/21	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/21

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'olac@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
13	YGWA-17S	WT		8/27	1045				5	✓		✓							X	X	X	X			Ph: 5.27
14	~~YGWA-18S~~ JS YGWA-18S	WT		8/26	1535				5	✓		✓							X	X	X	X			Ph: 4.40
15	YGWA-18I	WT		8/27	0935				5	✓		✓							X	X	X	X			Ph: 5.40
16	YGWA-20S	WT		8/27	1310				5	✓		✓							X	X	X	X			Ph: 5.37
17	YGWA-21I	WT																	X	X	X	X			
18	YGWC-23S	WT																	X	X	X	X	X		
19	YGWC-24SA	WT																	X	X	X	X			
20	AMA-DUP-1	WT																	X	X	X	X			
21	YGWC-36A	WT																	X	X	X	X	X		
22	YGWC-49	WT																	X	X	X	X			
23	AMA-EB-1			8/26	1600				5										X	X	X	X			
24	AMA-EB-2			8/27	1340				5										X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	8/27			8/27/24	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 8/27/24

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92558254

PM: NMG **Due Date: 09/13/21**
CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/2/21 KeW

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

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

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.0

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	~~SCS Contacts~~ Becky Steelet
Copy To:	~~Arcadis Contacts~~
Purchase Order #:	
Project Name:	Yates AMA-[redacted]
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	CCR
State / Location	GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 9315/9320	Alkalinity	Cations (Na, K, Mg, Ca)	Residual Chlorine (Y/N)
1	~~UP-EB-1~~ JD	WT	G															x	x	x	x	x			--
2	~~UP-FB-1~~ JS	WT	G															x	x	x	x	x			--
3	~~UP-EB-2~~ JS	WT	G															x	x	x	x	x			--
4	~~UP-FB-2~~ JS	WT	G															x	x	x	x	x			--
5	~~YGWA-4I~~ JS	WT	G															x	x	x	x	x	x		pH:
6	~~YGWA-5I~~ JS	WT	G															x	x	x	x	x			pH:
7	~~UP-DUP-3~~ JS	WT	G		--													x	x	x	x	x			pH:
8	~~YGWA-6D~~ JS	WT	G															x	x	x	x	x	x		pH:
9	~~YGWA-17S~~ JS	WT	G															x	x	x	x	x			pH:
10	~~YGWA-18S~~ JS AMA-DUP-1	WT	G	9/1	←				5	✓		✓						x	x	x	x	x	BS/JS		pH:
11	~~YGWA-16I~~ JS YGWC-245A	WT	G	9/1	1025				5	✓		✓						x	x	x	x	x	BS/JS		pH: 5.22
12	~~YGWA-20S~~ YGWA-21I	WT	G	9/1	1440				5	✓		✓						x	x	x	x	x			pH: 6.65

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl,F, sulfate)	/Arcadis	9/2/21	1530	/Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 6010D		9/2/21	1702	/Pace	9/2/21	1702	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

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

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

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

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

Sample Condition Upon Receipt

Client Name: ARCADIS - GA Power **Project:**

WO# : 92559527

92559527

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

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

Date/Initials Person Examining Contents: 9/3/21 CM

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

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

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 5.0

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

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	(pH) 9/3/21 DW W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates R6	Pace Project Manager:	nicole.d'olec@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency: GA

State / Location

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)
1	~~YGWA-39~~	WT																	X	X		X	X	X	
2	YGWA-40	WT		9/3/21	1027														X	X		X	X	X	4.25
3	~~YGWC-38~~	WT																	X	X		X	X	X	
4	~~YGWC-41~~	WT																	X	X		X	X	X	
5	~~AMW-DUP-2~~	WT																	X	X			X		
6	~~YGWC-42~~	WT																	X	X		X	X	X	
7	~~YGWC-43~~	WT																	X	X		X	X	X	
8	~~AP-1-EB-1~~	WT																			X				
9	~~AP-1-FB-1~~	WT																			X				
10	~~YGWA-47~~	WT																			X				
11	~~YGWC-52~~	WT																			X				
12	~~YGWC-44~~	WT																			X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] AMS	9/3/21	1730	[signature] / [signature]	9/3/21	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chost

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/3/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JC2
Date:	9/15/2021
Worklist:	62588
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237303
MB concentration:	0.384
M/B 2 Sigma CSU:	0.355
MB MDC:	0.721
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS62588	LCSD62588
Count Date:	9/17/2021	9/17/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	38.186	38.186
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.803
Target Conc. (pCi/L, g, F):	4.687	4.757
Uncertainty (Calculated):	0.230	0.233
Result (pCi/L, g, F):	5.454	4.993
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.212	1.116
Numerical Performance Indicator:	1.22	0.41
Percent Recovery:	116.37%	104.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS62588	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD62588	
Sample Result (pCi/L, g, F):	5.454	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.212	
Sample Duplicate Result (pCi/L, g, F):	4.993	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.116	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.549	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.31%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	CLA
Date:	9/13/2021
Worklist:	62589
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237310
MB concentration:	-0.086
M/B Counting Uncertainty:	0.064
MB MDC:	0.268
MB Numerical Performance Indicator:	-2.64
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62589	LCSD62589
Count Date:	9/21/2021	9/21/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034	24.034
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.510
Target Conc. (pCi/L, g, F):	4.754	4.716
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.107	4.962
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.586	0.566
Numerical Performance Indicator:	1.17	0.85
Percent Recovery:	107.43%	105.21%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS62589	92557070001
Duplicate Sample I.D.	LCSD62589	92557070001DUP
Sample Result (pCi/L, g, F):	5.107	0.325
Sample Result Counting Uncertainty (pCi/L, g, F):	0.586	0.189
Sample Duplicate Result (pCi/L, g, F):	4.962	0.574
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.566	0.208
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.349	-1.735
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.08%	55.31%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 9/21/21

LAM 9/21/21

February 2022 Event

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

February 23, 2022

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

RE: Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM
Christine Weaver, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

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

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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

SAMPLE SUMMARY

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587096001	**GWC-6R**	Water	02/08/22 12:36	02/09/22 10:18
92587096002	**GWC-1R**	Water	02/08/22 14:50	02/09/22 10:18
92587096003	**GWC-3R**	Water	02/08/22 18:30	02/09/22 10:18
92587096004	**GWC-4R**	Water	02/08/22 16:15	02/09/22 10:18
92587096005	**GWC-5R**	Water	02/09/22 16:20	02/10/22 17:00
92587096006	**GWC-2R**	Water	02/09/22 12:00	02/10/22 17:00
92587096007	**G-EB-1**	Water	02/09/22 16:45	02/10/22 17:00
92587096008	**G-FB-1**	Water	02/09/22 12:30	02/10/22 17:00

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

SAMPLE ANALYTE COUNT

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587096001	**GWC-6R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587096002	**GWC-1R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587096003	**GWC-3R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587096004	**GWC-4R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587096005	**GWC-5R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587096006	**GWC-2R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587096007	**G-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587096008	**G-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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

SUMMARY OF DETECTION

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587096001	**GWC-6R**					
	Performed by	CUSTOMER			02/09/22 12:44	
	pH	5.89	Std. Units		02/09/22 12:44	
EPA 6010D	Calcium	61.5	mg/L	1.0	02/22/22 18:33	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/22/22 20:19	
EPA 6020B	Chromium	0.0017J	mg/L	0.0050	02/22/22 20:19	
EPA 6020B	Copper	0.00080J	mg/L	0.0050	02/22/22 20:19	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	02/22/22 20:19	
EPA 6020B	Nickel	0.0010J	mg/L	0.0050	02/22/22 20:19	
SM 2540C-2015	Total Dissolved Solids	549	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/15/22 11:30	
EPA 300.0 Rev 2.1 1993	Sulfate	260	mg/L	6.0	02/15/22 18:48	
92587096002	**GWC-1R**					
	Performed by	CUSTOMER			02/09/22 12:44	
	pH	5.16	Std. Units		02/09/22 12:44	
EPA 6010D	Calcium	166	mg/L	1.0	02/22/22 18:38	M1
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/22/22 20:24	B
EPA 6020B	Barium	0.066	mg/L	0.0050	02/22/22 20:24	
EPA 6020B	Beryllium	0.00032J	mg/L	0.00050	02/22/22 20:24	
EPA 6020B	Boron	0.021J	mg/L	0.040	02/22/22 20:24	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/22/22 20:24	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	02/22/22 20:24	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/22/22 20:24	
EPA 6020B	Copper	0.00072J	mg/L	0.0050	02/22/22 20:24	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	02/22/22 20:24	
EPA 6020B	Nickel	0.0032J	mg/L	0.0050	02/22/22 20:24	
EPA 6020B	Selenium	0.020	mg/L	0.0050	02/22/22 20:24	
SM 2540C-2015	Total Dissolved Solids	1310	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/15/22 11:44	
EPA 300.0 Rev 2.1 1993	Sulfate	687	mg/L	16.0	02/15/22 19:02	
92587096003	**GWC-3R**					
	Performed by	CUSTOMER			02/09/22 12:45	
	pH	5.10	Std. Units		02/09/22 12:45	
EPA 6010D	Calcium	17.9	mg/L	1.0	02/22/22 19:28	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/22/22 20:30	B
EPA 6020B	Barium	0.013	mg/L	0.0050	02/22/22 20:30	
EPA 6020B	Beryllium	0.0010	mg/L	0.00050	02/22/22 20:30	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	02/22/22 20:30	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/22/22 20:30	
EPA 6020B	Cobalt	0.0074	mg/L	0.0050	02/22/22 20:30	
EPA 6020B	Lithium	0.00094J	mg/L	0.030	02/22/22 20:30	
EPA 6020B	Selenium	0.0091	mg/L	0.0050	02/22/22 20:30	
EPA 6020B	Zinc	0.0098J	mg/L	0.010	02/22/22 20:30	
SM 2540C-2015	Total Dissolved Solids	231	mg/L	10.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/15/22 11:58	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587096003	**GWC-3R**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/15/22 11:58	
EPA 300.0 Rev 2.1 1993	Sulfate	93.5	mg/L	2.0	02/15/22 19:17	
92587096004	**GWC-4R**					
	Performed by	CUSTOMER			02/09/22 12:45	
	pH	5.67	Std. Units		02/09/22 12:45	
EPA 6010D	Calcium	66.5	mg/L	1.0	02/22/22 19:33	
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	02/22/22 20:54	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	02/22/22 20:54	B
EPA 6020B	Barium	0.031	mg/L	0.0050	02/22/22 20:54	
EPA 6020B	Beryllium	0.000085J	mg/L	0.00050	02/22/22 20:54	
EPA 6020B	Boron	5.3	mg/L	0.040	02/22/22 20:54	
EPA 6020B	Cobalt	0.0034J	mg/L	0.0050	02/22/22 20:54	
EPA 6020B	Nickel	0.0017J	mg/L	0.0050	02/22/22 20:54	
EPA 6020B	Selenium	0.0044J	mg/L	0.0050	02/22/22 20:54	
SM 2540C-2015	Total Dissolved Solids	648	mg/L	20.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	162	mg/L	4.0	02/15/22 20:00	
EPA 300.0 Rev 2.1 1993	Sulfate	146	mg/L	4.0	02/15/22 20:00	
92587096005	**GWC-5R**					
	Performed by	CUSTOMER			02/11/22 10:11	
	pH	4.82	Std. Units		02/11/22 10:11	
EPA 6010D	Calcium	139	mg/L	1.0	02/22/22 19:37	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/22/22 21:00	B
EPA 6020B	Barium	0.011	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Beryllium	0.0036	mg/L	0.00050	02/22/22 21:00	
EPA 6020B	Boron	0.043	mg/L	0.040	02/22/22 21:00	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	02/22/22 21:00	
EPA 6020B	Chromium	0.0022J	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Cobalt	0.00064J	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Copper	0.0014J	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	02/22/22 21:00	
EPA 6020B	Nickel	0.0014J	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Selenium	0.017	mg/L	0.0050	02/22/22 21:00	
EPA 6020B	Zinc	0.025	mg/L	0.010	02/22/22 21:00	
SM 2540C-2015	Total Dissolved Solids	1440	mg/L	50.0	02/15/22 16:32	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/17/22 03:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/17/22 03:42	
EPA 300.0 Rev 2.1 1993	Sulfate	937	mg/L	19.0	02/17/22 18:26	
92587096006	**GWC-2R**					
	Performed by	CUSTOMER			02/11/22 10:12	
	pH	5.20	Std. Units		02/11/22 10:12	
EPA 6010D	Calcium	46.6	mg/L	1.0	02/22/22 19:42	
EPA 6020B	Barium	0.038	mg/L	0.0050	02/22/22 21:18	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	02/22/22 21:18	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587096006	**GWC-2R**					
EPA 6020B	Boron	0.23	mg/L	0.040	02/22/22 21:18	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	02/22/22 21:18	
EPA 6020B	Lithium	0.0042J	mg/L	0.030	02/22/22 21:18	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/22/22 21:18	
SM 2540C-2015	Total Dissolved Solids	466	mg/L	10.0	02/15/22 16:32	
EPA 300.0 Rev 2.1 1993	Chloride	21.2	mg/L	1.0	02/17/22 03:57	
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	5.0	02/17/22 18:41	
92587096007	**G-EB-1**					
SM 2540C-2015	Total Dissolved Solids	14.0	mg/L	10.0	02/15/22 16:32	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-6R **Lab ID: 92587096001** Collected: 02/08/22 12:36 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:44		
pH	**5.89**	Std. Units			1		02/09/22 12:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**61.5**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 18:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 20:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:19	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 20:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 20:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 20:19	7440-43-9	
Chromium	**0.0017J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 20:19	7440-48-4	
Copper	**0.00080J**	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 20:19	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 20:19	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 20:19	7439-98-7	
Nickel	**0.0010J**	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 20:19	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 20:19	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 20:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 20:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 20:19	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 20:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 13:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**549**	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		02/15/22 11:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 11:30	16984-48-8	
Sulfate	**260**	mg/L	6.0	3.0	6		02/15/22 18:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-1R **Lab ID: 92587096002** Collected: 02/08/22 14:50 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:44		
pH	**5.16**	Std. Units			1		02/09/22 12:44		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**166**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 18:38	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 20:24	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:24	7440-38-2	B
Barium	**0.066**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 20:24	7440-39-3	
Beryllium	**0.00032J**	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 20:24	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 20:24	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 20:24	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:24	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 20:24	7440-48-4	
Copper	**0.00072J**	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 20:24	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 20:24	7439-92-1	
Lithium	**0.0018J**	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 20:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 20:24	7439-98-7	
Nickel	**0.0032J**	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 20:24	7440-02-0	
Selenium	**0.020**	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 20:24	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 20:24	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 20:24	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 20:24	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 20:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 13:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1310**	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		02/15/22 11:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 11:44	16984-48-8	
Sulfate	**687**	mg/L	16.0	8.0	16		02/15/22 19:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-3R **Lab ID: 92587096003** Collected: 02/08/22 18:30 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:45		
pH	**5.10**	Std. Units			1		02/09/22 12:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.9**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 20:30	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:30	7440-38-2	B
Barium	**0.013**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 20:30	7440-39-3	
Beryllium	**0.0010**	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 20:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 20:30	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 20:30	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:30	7440-47-3	
Cobalt	**0.0074**	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 20:30	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 20:30	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 20:30	7439-92-1	
Lithium	**0.00094J**	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 20:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 20:30	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 20:30	7440-02-0	
Selenium	**0.0091**	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 20:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 20:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 20:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 20:30	7440-62-2	
Zinc	**0.0098J**	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 20:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**231**	mg/L	10.0	10.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		02/15/22 11:58	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		02/15/22 11:58	16984-48-8	
Sulfate	**93.5**	mg/L	2.0	1.0	2		02/15/22 19:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-4R **Lab ID: 92587096004** Collected: 02/08/22 16:15 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:45		
pH	**5.67**	Std. Units			1		02/09/22 12:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**66.5**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0017J**	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 20:54	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:54	7440-38-2	B
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 20:54	7440-39-3	
Beryllium	**0.000085J**	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 20:54	7440-41-7	
Boron	**5.3**	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 20:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 20:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 20:54	7440-47-3	
Cobalt	**0.0034J**	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 20:54	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 20:54	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 20:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 20:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 20:54	7439-98-7	
Nickel	**0.0017J**	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 20:54	7440-02-0	
Selenium	**0.0044J**	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 20:54	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 20:54	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 20:54	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 20:54	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 20:54	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**648**	mg/L	20.0	20.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**162**	mg/L	4.0	2.4	4		02/15/22 20:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 12:12	16984-48-8	
Sulfate	**146**	mg/L	4.0	2.0	4		02/15/22 20:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-5R **Lab ID: 92587096005** Collected: 02/09/22 16:20 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:11		
pH	**4.82**	Std. Units			1		02/11/22 10:11		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**139**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:37	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 21:00	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:00	7440-38-2	B
Barium	**0.011**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 21:00	7440-39-3	
Beryllium	**0.0036**	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 21:00	7440-41-7	
Boron	**0.043**	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 21:00	7440-42-8	
Cadmium	**0.0010**	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 21:00	7440-43-9	
Chromium	**0.0022J**	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:00	7440-47-3	
Cobalt	**0.00064J**	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 21:00	7440-48-4	
Copper	**0.0014J**	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 21:00	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 21:00	7439-92-1	
Lithium	**0.0018J**	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 21:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 21:00	7439-98-7	
Nickel	**0.0014J**	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 21:00	7440-02-0	
Selenium	**0.017**	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 21:00	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 21:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 21:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 21:00	7440-62-2	
Zinc	**0.025**	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 21:00	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1440**	mg/L	50.0	50.0	1		02/15/22 16:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		02/17/22 03:42	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		02/17/22 03:42	16984-48-8	
Sulfate	**937**	mg/L	19.0	9.5	19		02/17/22 18:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: GWC-2R **Lab ID: 92587096006** Collected: 02/09/22 12:00 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:12		
pH	**5.20**	Std. Units			1		02/11/22 10:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**46.6**	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:18	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 21:18	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 21:18	7440-41-7	
Boron	**0.23**	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 21:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 21:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:18	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 21:18	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 21:18	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 21:18	7439-92-1	
Lithium	**0.0042J**	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 21:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 21:18	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 21:18	7440-02-0	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 21:18	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 21:18	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 21:18	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 21:18	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 21:18	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**466**	mg/L	10.0	10.0	1		02/15/22 16:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**21.2**	mg/L	1.0	0.60	1		02/17/22 03:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 03:57	16984-48-8	
Sulfate	**241**	mg/L	5.0	2.5	5		02/17/22 18:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: G-EB-1 **Lab ID: 92587096007** Collected: 02/09/22 16:45 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:47	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 21:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 21:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 21:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 21:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 21:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 21:24	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 21:24	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 21:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 21:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 21:24	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 21:24	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 21:24	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 21:24	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 21:24	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 21:24	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 21:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**14.0**	mg/L	10.0	10.0	1		02/15/22 16:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/17/22 04:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 04:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 04:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Sample: G-FB-1 **Lab ID: 92587096008** Collected: 02/09/22 12:30 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/22/22 10:31	02/22/22 19:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/22 11:07	02/22/22 21:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/22 11:07	02/22/22 21:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/22 11:07	02/22/22 21:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/22 11:07	02/22/22 21:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/22 11:07	02/22/22 21:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/22 11:07	02/22/22 21:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/22 11:07	02/22/22 21:30	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	02/22/22 11:07	02/22/22 21:30	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/22 11:07	02/22/22 21:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/22 11:07	02/22/22 21:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/22 11:07	02/22/22 21:30	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/22/22 11:07	02/22/22 21:30	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/22 11:07	02/22/22 21:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/22/22 11:07	02/22/22 21:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/22 11:07	02/22/22 21:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/22/22 11:07	02/22/22 21:30	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/22/22 11:07	02/22/22 21:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/16/22 13:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/17/22 04:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 04:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 04:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 679925 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

METHOD BLANK: 3557373 Matrix: Water
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/22 18:23	

LABORATORY CONTROL SAMPLE: 3557374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3557375 3557376

Parameter	Units	92587096002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	166	1	1	163	161	-387	-567	75-125	1	20	M1

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 679927
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

METHOD BLANK: 3557382 Matrix: Water
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/22/22 20:07	
Arsenic	mg/L	0.0012J	0.0050	0.0011	02/22/22 20:07	
Barium	mg/L	ND	0.0050	0.00067	02/22/22 20:07	
Beryllium	mg/L	ND	0.00050	0.000054	02/22/22 20:07	
Boron	mg/L	ND	0.040	0.0086	02/22/22 20:07	
Cadmium	mg/L	ND	0.00050	0.00011	02/22/22 20:07	
Chromium	mg/L	ND	0.0050	0.0011	02/22/22 20:07	
Cobalt	mg/L	ND	0.0050	0.00039	02/22/22 20:07	
Copper	mg/L	ND	0.0050	0.00050	02/22/22 20:07	
Lead	mg/L	ND	0.0010	0.00089	02/22/22 20:07	
Lithium	mg/L	ND	0.030	0.00073	02/22/22 20:07	
Molybdenum	mg/L	ND	0.010	0.00074	02/22/22 20:07	
Nickel	mg/L	ND	0.0050	0.00071	02/22/22 20:07	
Selenium	mg/L	ND	0.0050	0.0014	02/22/22 20:07	
Silver	mg/L	ND	0.0050	0.00044	02/22/22 20:07	
Thallium	mg/L	ND	0.0010	0.00018	02/22/22 20:07	
Vanadium	mg/L	0.0025J	0.010	0.0019	02/22/22 20:07	
Zinc	mg/L	ND	0.010	0.0070	02/22/22 20:07	

LABORATORY CONTROL SAMPLE: 3557383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Nickel	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Silver	mg/L	0.1	0.10	102	80-120	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

LABORATORY CONTROL SAMPLE: 3557383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.099	99	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3557384 3557385

Parameter	Units	92587096003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.097	0.099	96	98	75-125	2	20	
Barium	mg/L	0.013	0.1	0.1	0.11	0.11	98	97	75-125	0	20	
Beryllium	mg/L	0.0010	0.1	0.1	0.096	0.099	95	98	75-125	3	20	
Boron	mg/L	ND	1	1	0.99	1.0	98	99	75-125	1	20	
Cadmium	mg/L	0.00018J	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Chromium	mg/L	0.0011J	0.1	0.1	0.099	0.10	98	99	75-125	0	20	
Cobalt	mg/L	0.0074	0.1	0.1	0.10	0.11	94	99	75-125	4	20	
Copper	mg/L	ND	0.1	0.1	0.093	0.097	93	97	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.091	0.093	91	92	75-125	1	20	
Lithium	mg/L	0.00094J	0.1	0.1	0.099	0.10	98	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Nickel	mg/L	ND	0.1	0.1	0.096	0.098	96	97	75-125	1	20	
Selenium	mg/L	0.0091	0.1	0.1	0.10	0.11	95	98	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	4	20	
Zinc	mg/L	0.0098J	0.1	0.1	0.11	0.11	97	98	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678404
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

METHOD BLANK: 3550196 Matrix: Water
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004, 92587096005, 92587096006, 92587096007, 92587096008

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

LABORATORY CONTROL SAMPLE: 3550197

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550198 3550199

Parameter	Units	92586436031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0023	78	93	75-125	18	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678369 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004

METHOD BLANK: 3550014 Matrix: Water
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:02	

LABORATORY CONTROL SAMPLE: 3550015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3550016

Parameter	Units	92587091003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	25	

SAMPLE DUPLICATE: 3550017

Parameter	Units	92587322007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1080	7	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678370 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096005, 92587096006, 92587096007

METHOD BLANK: 3550019 Matrix: Water
Associated Lab Samples: 92587096005, 92587096006, 92587096007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:29	

LABORATORY CONTROL SAMPLE: 3550020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 3550021

Parameter	Units	92587705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	37.0	3	25	

SAMPLE DUPLICATE: 3550022

Parameter	Units	92587091011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678705
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587096008

METHOD BLANK: 3551645 Matrix: Water
Associated Lab Samples: 92587096008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/16/22 13:52	

LABORATORY CONTROL SAMPLE: 3551646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3551647

Parameter	Units	92587096008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 3551648

Parameter	Units	92587319007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	756	708	7	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678236
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004

METHOD BLANK: 3549599 Matrix: Water
Associated Lab Samples: 92587096001, 92587096002, 92587096003, 92587096004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE: 3549600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549601 3549602

Parameter	Units	92587091003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549603 3549604

Parameter	Units	92587240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

QC Batch: 678877
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587096005, 92587096006, 92587096007, 92587096008

METHOD BLANK: 3552679 Matrix: Water
Associated Lab Samples: 92587096005, 92587096006, 92587096007, 92587096008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE: 3552680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552681 3552682

Parameter	Units	92587091017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552683 3552684

Parameter	Units	92587687006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.8	50.8	101	101	90-110	0	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587096001	GWC-6R				
92587096002	GWC-1R				
92587096003	GWC-3R				
92587096004	GWC-4R				
92587096005	GWC-5R				
92587096006	GWC-2R				
92587096001	GWC-6R	EPA 3010A	679925	EPA 6010D	680055
92587096002	GWC-1R	EPA 3010A	679925	EPA 6010D	680055
92587096003	GWC-3R	EPA 3010A	679925	EPA 6010D	680055
92587096004	GWC-4R	EPA 3010A	679925	EPA 6010D	680055
92587096005	GWC-5R	EPA 3010A	679925	EPA 6010D	680055
92587096006	GWC-2R	EPA 3010A	679925	EPA 6010D	680055
92587096007	G-EB-1	EPA 3010A	679925	EPA 6010D	680055
92587096008	G-FB-1	EPA 3010A	679925	EPA 6010D	680055
92587096001	GWC-6R	EPA 3005A	679927	EPA 6020B	680111
92587096002	GWC-1R	EPA 3005A	679927	EPA 6020B	680111
92587096003	GWC-3R	EPA 3005A	679927	EPA 6020B	680111
92587096004	GWC-4R	EPA 3005A	679927	EPA 6020B	680111
92587096005	GWC-5R	EPA 3005A	679927	EPA 6020B	680111
92587096006	GWC-2R	EPA 3005A	679927	EPA 6020B	680111
92587096007	G-EB-1	EPA 3005A	679927	EPA 6020B	680111
92587096008	G-FB-1	EPA 3005A	679927	EPA 6020B	680111
92587096001	GWC-6R	EPA 7470A	678404	EPA 7470A	678664
92587096002	GWC-1R	EPA 7470A	678404	EPA 7470A	678664
92587096003	GWC-3R	EPA 7470A	678404	EPA 7470A	678664
92587096004	GWC-4R	EPA 7470A	678404	EPA 7470A	678664
92587096005	GWC-5R	EPA 7470A	678404	EPA 7470A	678664
92587096006	GWC-2R	EPA 7470A	678404	EPA 7470A	678664
92587096007	G-EB-1	EPA 7470A	678404	EPA 7470A	678664
92587096008	G-FB-1	EPA 7470A	678404	EPA 7470A	678664
92587096001	GWC-6R	SM 2540C-2015	678369		
92587096002	GWC-1R	SM 2540C-2015	678369		
92587096003	GWC-3R	SM 2540C-2015	678369		
92587096004	GWC-4R	SM 2540C-2015	678369		
92587096005	GWC-5R	SM 2540C-2015	678370		
92587096006	GWC-2R	SM 2540C-2015	678370		
92587096007	G-EB-1	SM 2540C-2015	678370		
92587096008	G-FB-1	SM 2540C-2015	678705		
92587096001	GWC-6R	EPA 300.0 Rev 2.1 1993	678236		
92587096002	GWC-1R	EPA 300.0 Rev 2.1 1993	678236		
92587096003	GWC-3R	EPA 300.0 Rev 2.1 1993	678236		
92587096004	GWC-4R	EPA 300.0 Rev 2.1 1993	678236		
92587096005	GWC-5R	EPA 300.0 Rev 2.1 1993	678877		
92587096006	GWC-2R	EPA 300.0 Rev 2.1 1993	678877		
92587096007	G-EB-1	EPA 300.0 Rev 2.1 1993	678877		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM LANDFILL
Pace Project No.: 92587096

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587096008	**G-FB-1**	EPA 300.0 Rev 2.1 1993	678877		

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587096

92587096

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

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

Date/Initials Person Examining Contents: 2/6/22

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

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

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

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

Cooler Temp Corrected (°C): 2.5

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

USDA Regulated Soil (☑ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

Project # WO# : 92587096

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	RDN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2			
2		1	1			1																			2			
3		1	1			1																			2			
4		1	1			1																			2			
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WT	G	02-08	1235	–	–		5	2		3							X	X	X	X	X		pH: 5.89
2	~~GWC-5R~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WT	G	02-08	1450	–	–		5	2		3							X	X	X	X	X		pH: 5.19
4	GWC-3R	WT	G	02-08	1830	–	–		5	2		3							X	X	X	X	X		pH: 5.10
5	GWC-4R	WT	G	02-08	1615	–	–		5	2		3							X	X	X	X	X		pH: 5.67
6	~~GWC-2R~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
7	~~G FB 1~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
8	~~G FB 1~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
9		WT	G			–	–																		
10		WT	G			–	–																		
11		WT	G			–	–																		
12		WT	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/9/22	0840		2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER:

DATE Signed: 02-09-22

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

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

March 17, 2022

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

RE: Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 10, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Nicole D'oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM
Christine Weaver, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

SAMPLE SUMMARY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587087001	**GWC-6R**	Water	02/08/22 12:36	02/09/22 10:18
92587087002	**GWC-1R**	Water	02/08/22 14:50	02/09/22 10:18
92587087003	**GWC-3R**	Water	02/08/22 18:30	02/09/22 10:18
92587087004	**GWC-4R**	Water	02/08/22 16:15	02/09/22 10:18
92587087005	**GWC-5R**	Water	02/09/22 16:20	02/10/22 17:00
92587087006	**GWC-2R**	Water	02/09/22 12:00	02/10/22 17:00
92587087007	**G-EB-1**	Water	02/09/22 16:45	02/10/22 17:00
92587087008	**G-FB-1**	Water	02/09/22 12:30	02/10/22 17:00

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587087001	**GWC-6R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087002	**GWC-1R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087003	**GWC-3R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087004	**GWC-4R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087005	**GWC-5R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087006	**GWC-2R**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087007	**G-EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587087008	**G-FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587087001	**GWC-6R**					
EPA 9315	Radium-226	0.233 ± 0.128 (0.179) C:93% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.180 ± 0.266 (0.573) C:80% T:93%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.413 ± 0.394 (0.752)	pCi/L		03/14/22 21:54	
92587087002	**GWC-1R**					
EPA 9315	Radium-226	0.108 ± 0.0996 (0.185) C:92% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.541 ± 0.353 (0.665) C:80% T:88%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.649 ± 0.453 (0.850)	pCi/L		03/14/22 21:54	
92587087003	**GWC-3R**					
EPA 9315	Radium-226	0.0691 ± 0.0992 (0.215) C:90% T:NA	pCi/L		03/10/22 09:21	
EPA 9320	Radium-228	0.320 ± 0.304 (0.617) C:81% T:88%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.389 ± 0.403 (0.832)	pCi/L		03/14/22 21:54	
92587087004	**GWC-4R**					
EPA 9315	Radium-226	0.0114 ± 0.0305 (0.0749) C:193% T:NA	pCi/L		03/10/22 09:16	
EPA 9320	Radium-228	0.308 ± 0.275 (0.544) C:79% T:84%	pCi/L		03/04/22 14:05	
Total Radium Calculation	Total Radium	0.319 ± 0.306 (0.619)	pCi/L		03/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587087005	**GWC-5R**					
EPA 9315	Radium-226	0.0788 ± 0.0906 (0.183) C:95% T:NA	pCi/L		03/10/22 09:16	
EPA 9320	Radium-228	0.401 ± 0.452 (0.949) C:94% T:87%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.480 ± 0.543 (1.13)	pCi/L		03/14/22 21:54	
92587087006	**GWC-2R**					
EPA 9315	Radium-226	0.199 ± 0.117 (0.161) C:92% T:NA	pCi/L		03/10/22 09:16	
EPA 9320	Radium-228	0.221 ± 0.378 (0.824) C:93% T:90%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.420 ± 0.495 (0.985)	pCi/L		03/14/22 21:54	
92587087007	**G-EB-1**					
EPA 9315	Radium-226	0.203 ± 0.141 (0.247) C:86% T:NA	pCi/L		03/11/22 07:49	
EPA 9320	Radium-228	0.574 ± 0.432 (0.847) C:89% T:92%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.777 ± 0.573 (1.09)	pCi/L		03/14/22 21:54	
92587087008	**G-FB-1**					
EPA 9315	Radium-226	0.0513 ± 0.0950 (0.217) C:94% T:NA	pCi/L		03/11/22 07:49	
EPA 9320	Radium-228	0.139 ± 0.430 (0.967) C:88% T:89%	pCi/L		03/04/22 15:33	
Total Radium Calculation	Total Radium	0.190 ± 0.525 (1.18)	pCi/L		03/14/22 21:54	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-6R **Lab ID: 92587087001** Collected: 02/08/22 12:36 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.233 ± 0.128 (0.179) C:93% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.180 ± 0.266 (0.573) C:80% T:93%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.413 ± 0.394 (0.752)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-1R **Lab ID: 92587087002** Collected: 02/08/22 14:50 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.108 ± 0.0996 (0.185) C:92% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.541 ± 0.353 (0.665) C:80% T:88%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.649 ± 0.453 (0.850)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-3R **Lab ID: 92587087003** Collected: 02/08/22 18:30 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0691 ± 0.0992 (0.215) C:90% T:NA**	pCi/L	03/10/22 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.320 ± 0.304 (0.617) C:81% T:88%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.389 ± 0.403 (0.832)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-4R **Lab ID: 92587087004** Collected: 02/08/22 16:15 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0114 ± 0.0305 (0.0749) C:193% T:NA**	pCi/L	03/10/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.308 ± 0.275 (0.544) C:79% T:84%**	pCi/L	03/04/22 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.319 ± 0.306 (0.619)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-5R **Lab ID: 92587087005** Collected: 02/09/22 16:20 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0788 ± 0.0906 (0.183) C:95% T:NA**	pCi/L	03/10/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.401 ± 0.452 (0.949) C:94% T:87%**	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.480 ± 0.543 (1.13)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: GWC-2R **Lab ID: 92587087006** Collected: 02/09/22 12:00 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.199 ± 0.117 (0.161) C:92% T:NA**	pCi/L	03/10/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.221 ± 0.378 (0.824) C:93% T:90%**	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.420 ± 0.495 (0.985)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: G-EB-1 **Lab ID: 92587087007** Collected: 02/09/22 16:45 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.203 ± 0.141 (0.247) C:86% T:NA**	pCi/L	03/11/22 07:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.574 ± 0.432 (0.847) C:89% T:92%**	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.777 ± 0.573 (1.09)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Sample: G-FB-1 **Lab ID: 92587087008** Collected: 02/09/22 12:30 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0513 ± 0.0950 (0.217) C:94% T:NA**	pCi/L	03/11/22 07:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.139 ± 0.430 (0.967) C:88% T:89%**	pCi/L	03/04/22 15:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.190 ± 0.525 (1.18)**	pCi/L	03/14/22 21:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

QC Batch: 486659
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587087005, 92587087006, 92587087007, 92587087008

METHOD BLANK: 2353495 Matrix: Water
Associated Lab Samples: 92587087005, 92587087006, 92587087007, 92587087008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.115 ± 0.191 (0.414) C:101% T:93%	pCi/L	03/04/22 12:08	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

QC Batch: 485935 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587087001, 92587087002, 92587087003, 92587087004, 92587087005, 92587087006, 92587087007, 92587087008

METHOD BLANK: 2349823 Matrix: Water
Associated Lab Samples: 92587087001, 92587087002, 92587087003, 92587087004, 92587087005, 92587087006, 92587087007, 92587087008

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

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

QC Batch: 486654
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587087001, 92587087002, 92587087003, 92587087004

METHOD BLANK: 2353485 Matrix: Water
Associated Lab Samples: 92587087001, 92587087002, 92587087003, 92587087004

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

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM LANDFILL RAD
Pace Project No.: 92587087

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587087001	**GWC-6R**	EPA 9315	485935		
92587087002	**GWC-1R**	EPA 9315	485935		
92587087003	**GWC-3R**	EPA 9315	485935		
92587087004	**GWC-4R**	EPA 9315	485935		
92587087005	**GWC-5R**	EPA 9315	485935		
92587087006	**GWC-2R**	EPA 9315	485935		
92587087007	**G-EB-1**	EPA 9315	485935		
92587087008	**G-FB-1**	EPA 9315	485935		
92587087001	**GWC-6R**	EPA 9320	486654		
92587087002	**GWC-1R**	EPA 9320	486654		
92587087003	**GWC-3R**	EPA 9320	486654		
92587087004	**GWC-4R**	EPA 9320	486654		
92587087005	**GWC-5R**	EPA 9320	486659		
92587087006	**GWC-2R**	EPA 9320	486659		
92587087007	**G-EB-1**	EPA 9320	486659		
92587087008	**G-FB-1**	EPA 9320	486659		
92587087001	**GWC-6R**	Total Radium Calculation	490237		
92587087002	**GWC-1R**	Total Radium Calculation	490237		
92587087003	**GWC-3R**	Total Radium Calculation	490237		
92587087004	**GWC-4R**	Total Radium Calculation	490237		
92587087005	**GWC-5R**	Total Radium Calculation	490237		
92587087006	**GWC-2R**	Total Radium Calculation	490237		
92587087007	**G-EB-1**	Total Radium Calculation	490237		
92587087008	**G-FB-1**	Total Radium Calculation	490237		

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587087

92587087

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

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

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

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

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

Thermometer: ☐ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

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

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

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☑ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

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

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

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

Project #

WO# : 92587087

PM: NMG Due Date: 03/02/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BOLN	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	GWC-6R	WT	G	02-08	1230	–	–		5	2		3						X	X	X	X	X		pH: 5.89
2	~~GWC-5R~~	WT	G			–	–		5	2		3						X	X	X	X	X		pH:
3	GWC-1R	WT	G	02-08	1450	–	–		5	2		3						X	X	X	X	X		pH: 5.89
4	GWC-3R	WT	G	02-08	1830	–	–		5	2		3						X	X	X	X	X		pH: 5.10
5	GWC-4R	WT	G	02-08	1615	–	–		5	2		3						X	X	X	X	X		pH: 5.67
6	~~GWC-2R~~	WT	G			–	–		5	2		3						X	X	X	X	X		pH:
7	~~G-FB-1~~	WT	G			–	–		5	2		3						X	X	X	X	X		pH:
8	~~G-FB-1~~	WT	G			–	–		5	2		3						X	X	X	X	X		pH:
9		WT	G			–	–																	
10		WT	G			–	–																	
11		WT	G			–	–																	
12		WT	G			–	–																	

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/9/22	0840		2/9/22	0840
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/9/22	1018		2/9	1018
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02-09-22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65254
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB concentration:	0.023
M/B Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65254	LCSD65254
Count Date:	3/11/2022	3/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.753	4.772
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.401	4.767
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465
Numerical Performance Indicator:	2.54	-0.02
Percent Recovery:	113.63%	99.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65254	92587078001
Duplicate Sample I.D.	LCSD65254	92587078001DUP
Sample Result (pCi/L, g, F):	5.401	0.273
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136
Sample Duplicate Result (pCi/L, g, F):	4.767	0.177
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465	0.106
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.824	1.094
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

~~***Batch must be re-prepped due to unacceptable precision.***~~ N/A

UAM 3/14/22

3/14/22

UAM 3/14/22

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/2/2022
Worklist:	65312
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2353495
MB concentration:	0.115
M/B 2 Sigma CSU:	0.191
MB MDC:	0.414
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65312	**LCSD65312**
Count Date:	3/4/2022	3/4/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.125	36.125
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.809
Target Conc. (pCi/L, g, F):	4.427	4.468
Uncertainty (Calculated):	0.217	0.219
Result (pCi/L, g, F):	4.037	3.927
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.882	0.873
Numerical Performance Indicator:	-0.84	-1.18
Percent Recovery:	91.18%	87.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS65312	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD65312	
Sample Result (pCi/L, g, F):	4.037	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.882	
Sample Duplicate Result (pCi/L, g, F):	3.927	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.873	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.173	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.67%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

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

Comments:

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/2/2022
Worklist:	65307
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2353485
MB concentration:	0.065
M/B 2 Sigma CSU:	0.235
MB MDC:	0.535
MB Numerical Performance Indicator:	0.54
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65307	**LCSD65307**
Count Date:	3/4/2022	3/4/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.128	36.128
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.809	0.805
Target Conc. (pCi/L, g, F):	4.467	4.488
Uncertainty (Calculated):	0.219	0.220
Result (pCi/L, g, F):	3.614	3.728
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.822	0.844
Numerical Performance Indicator:	-1.96	-1.71
Percent Recovery:	80.92%	83.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65307	Enter Duplicate
Duplicate Sample I.D.	LCSD65307	sample IDs if
Sample Result (pCi/L, g, F):	3.614	other than
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.822	LCS/LCSD in the
Sample Duplicate Result (pCi/L, g, F):	3.728	space below.
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.844	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.189	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65254
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB concentration:	0.023
M/B Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65254	LCSD65254
Count Date:	3/11/2022	3/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.753	4.772
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.401	4.767
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465
Numerical Performance Indicator:	2.54	-0.02
Percent Recovery:	113.63%	99.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65254	92587078001
Duplicate Sample I.D.	LCSD65254	92587078001DUP
Sample Result (pCi/L, g, F):	5.401	0.273
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136
Sample Duplicate Result (pCi/L, g, F):	4.767	0.177
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465	0.106
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.824	1.094
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

~~***Batch must be re-prepped due to unacceptable precision.***~~ N/A

UAM 3/14/22

3/14/22

UAM 3/14/22

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92587087 and 92587096

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

Report #44875R
Review Level: Tier II
Project: 30053438.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92587087 and 92587096 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
GWC-6R	92587087001 92587096001	Water	2/8/2022		X	X	X
GWC-1R	92587087002 92587096002	Water	2/8/2022		X	X	X
GWC-3R	92587087003 92587096003	Water	2/8/2022		X	X	X
GWC-4R	92587087004 92587096004	Water	2/8/2022		X	X	X
GWC-5R	92587087005 92587096005	Water	2/9/2022		X	X	X
GWC-2R	92587087006 92587096006	Water	2/9/2022		X	X	X
G-EB-1	92587087007 92587096007	Water	2/9/2022		X	X	X
G-FB-1	92587087008 92587096008	Water	2/9/2022		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if

it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWC-1R GWC-3R GWC-4R GWC-5R	Arsenic (MB)	Detected sample results <RL and <BAL	“UB” at the RL

Notes:
MB = Method blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample GWC-1R in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample GWC-3R in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Cold Vapor Atomic Absorption (CVAA)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

TDS was detected in the associated equipment blank G-EB-1; however, the associated sample results were greater than the BAL. No qualification of the sample results was required.

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

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

3.1 MS/MSD Analysis

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

MS/MSD analysis was not performed using a sample from this SDG in association with anions analysis.

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample G-FB-1 in association with TDS analysis exhibited an RPD within the control limit.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with anions analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

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

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

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

For all analyses in water matrices, data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- GWC-1R, GWC-3R, GWC-4R, and GWC-5R – Radium-226, Radium-228, and total Radium
- GWC-6R and GWC-2R – Radium-228 and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: March 22, 2022

PEER REVIEW: Dennis Capria

DATE: March 25, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WT	G	02-08	1235	–	–		5	2		3							X	X	X	X	X		pH: 5.89
2	~~GWC-5R~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WT	G	02-08	1450	–	–		5	2		3							X	X	X	X	X		pH: 5.19
4	GWC-3R	WT	G	02-08	1830	–	–		5	2		3							X	X	X	X	X		pH: 5.10
5	GWC-4R	WT	G	02-08	1615	–	–		5	2		3							X	X	X	X	X		pH: 5.67
6	~~GWC-2R~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
7	~~G FB 1~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
8	~~G-FB-1~~	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
9		WT	G			–	–																		
10		WT	G			–	–																		
11		WT	G			–	–																		
12		WT	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter Arcadis	2/9/22	0840		2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER:

DATE Signed: 02-09-22

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587087	No qualifiers assigned						
92587096	GWC-1R	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	GWC-3R	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	GWC-4R	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	GWC-5R	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamination

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

April 11, 2022

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

RE: Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

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

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

CERTIFICATIONS

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587081001	**YGWA-39**	Water	02/08/22 14:55	02/09/22 10:18
92587081002	**YGWA-40**	Water	02/08/22 13:22	02/09/22 10:18
92587081003	**YGWA-47**	Water	02/08/22 11:40	02/09/22 10:18
92587081004	**GWA-2**	Water	02/08/22 11:50	02/09/22 10:18
92587081005	**UP-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587081006	**YGWA-1I**	Water	02/09/22 13:45	02/10/22 17:00
92587081007	**YGWA-1D**	Water	02/09/22 14:45	02/10/22 17:00
92587081008	**YGWA-2I**	Water	02/09/22 17:35	02/10/22 17:00
92587081009	**YGWA-3I**	Water	02/09/22 11:35	02/10/22 17:00
92587081010	**YGWA-3D**	Water	02/09/22 10:20	02/10/22 17:00
92587081011	**UP-EB-1**	Water	02/09/22 13:06	02/10/22 17:00
92587081012	**UP-FB-1**	Water	02/09/22 10:47	02/10/22 17:00
92587081013	**YGWA-17S**	Water	02/09/22 10:20	02/10/22 17:00
92587081014	**YGWA-18S**	Water	02/09/22 12:24	02/10/22 17:00
92587081015	**YGWA-18I**	Water	02/09/22 14:31	02/10/22 17:00
92587081016	**YGWA-20S**	Water	02/09/22 16:19	02/10/22 17:00
92587081017	**YGWA-21I**	Water	02/09/22 17:40	02/10/22 17:00
92587081018	**YGWA-5I**	Water	02/10/22 17:27	02/11/22 16:45
92587081019	**UP-DUP-3**	Water	02/10/22 00:00	02/11/22 16:45
92587081020	**YGWA-14S**	Water	02/10/22 16:20	02/11/22 16:45
92587081021	**UP-DUP-2**	Water	02/10/22 00:00	02/11/22 16:45
92587081022	**YGWA-30I**	Water	02/10/22 09:20	02/11/22 16:45
92587081023	**YGWA-4I**	Water	02/11/22 10:40	02/11/22 16:45
92587081024	**YGWA-5D**	Water	02/10/22 17:46	02/11/22 16:45
92587081025	**UP-EB-2**	Water	02/10/22 11:40	02/11/22 16:45
92587081026	**UP-FB-2**	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081001	**YGWA-39**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081002	**YGWA-40**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081003	**YGWA-47**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081004	**GWA-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081005	**UP-DUP-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081006	**YGWA-1I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081007	**YGWA-1D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081008	**YGWA-2I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081009	**YGWA-3I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081010	**YGWA-3D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081011	**UP-EB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081012	**UP-FB-1**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081013	**YGWA-17S**	EPA 9315	JC2	1	PASI-PA

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

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081014	**YGWA-18S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081015	**YGWA-18I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081016	**YGWA-20S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081017	**YGWA-21I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081018	**YGWA-5I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081019	**UP-DUP-3**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081020	**YGWA-14S**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081021	**UP-DUP-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081022	**YGWA-30I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081023	**YGWA-4I**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081024	**YGWA-5D**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081025	**UP-EB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA

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

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92587081026	**UP-FB-2**	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081001	**YGWA-39**					
EPA 9315	Radium-226	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.834 ± 0.485 (0.771)	pCi/L		03/14/22 21:59	
92587081002	**YGWA-40**					
EPA 9315	Radium-226	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.534 ± 0.447 (0.820)	pCi/L		03/14/22 21:59	
92587081003	**YGWA-47**					
EPA 9315	Radium-226	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.400 ± 0.375 (0.711)	pCi/L		03/14/22 21:59	
92587081004	**GWA-2**					
EPA 9315	Radium-226	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L		03/04/22 12:08	
Total Radium Calculation	Total Radium	0.462 ± 0.386 (0.734)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081005	**UP-DUP-1**					
EPA 9315	Radium-226	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.755 ± 0.461 (0.833)	pCi/L		03/14/22 21:59	
92587081006	**YGWA-1I**					
EPA 9315	Radium-226	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.422 ± 0.698 (1.47)	pCi/L		03/14/22 21:59	
92587081007	**YGWA-1D**					
EPA 9315	Radium-226	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	1.19 ± 0.664 (1.13)	pCi/L		03/14/22 21:59	
92587081008	**YGWA-2I**					
EPA 9315	Radium-226	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.894 ± 0.649 (1.20)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081009	**YGWA-3I**					
EPA 9315	Radium-226	0.817 ± 0.240 (0.170) C:83% T:NA	pCi/L		03/14/22 08:22	
EPA 9320	Radium-228	1.09 ± 0.451 (0.731) C:81% T:89%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	1.91 ± 0.691 (0.901)	pCi/L		03/14/22 21:59	
92587081010	**YGWA-3D**					
EPA 9315	Radium-226	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	3.28 ± 0.894 (0.904)	pCi/L		03/14/22 21:59	
92587081011	**UP-EB-1**					
EPA 9315	Radium-226	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L		03/04/22 12:09	
Total Radium Calculation	Total Radium	0.436 ± 0.375 (0.757)	pCi/L		03/14/22 21:59	
92587081012	**UP-FB-1**					
EPA 9315	Radium-226	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L		03/14/22 08:18	
EPA 9320	Radium-228	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.572 ± 0.405 (0.794)	pCi/L		03/14/22 21:59	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081013	**YGWA-17S**					
EPA 9315	Radium-226	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.133 ± 0.412 (0.878)	pCi/L		03/14/22 21:59	
92587081014	**YGWA-18S**					
EPA 9315	Radium-226	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.0618 ± 0.415 (0.948)	pCi/L		03/14/22 21:59	
92587081015	**YGWA-18I**					
EPA 9315	Radium-226	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.571 ± 0.421 (0.794)	pCi/L		03/14/22 21:59	
92587081016	**YGWA-20S**					
EPA 9315	Radium-226	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	0.504 ± 0.382 (0.745)	pCi/L		03/14/22 21:59	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081017	**YGWA-21I**					
EPA 9315	Radium-226	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L		03/14/22 08:19	
EPA 9320	Radium-228	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L		03/04/22 12:10	
Total Radium Calculation	Total Radium	1.94 ± 0.715 (0.977)	pCi/L		03/14/22 21:59	
92587081018	**YGWA-5I**					
EPA 9315	Radium-226	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.375 ± 0.466 (0.996)	pCi/L		03/21/22 15:36	
92587081019	**UP-DUP-3**					
EPA 9315	Radium-226	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.183 ± 0.618 (1.36)	pCi/L		03/21/22 15:36	
92587081020	**YGWA-14S**					
EPA 9315	Radium-226	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	0.000 ± 0.512 (1.25)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081021	**UP-DUP-2**					
EPA 9315	Radium-226	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L		03/04/22 18:26	
Total Radium Calculation	Total Radium	0.0406 ± 0.405 (1.00)	pCi/L		03/21/22 15:36	
92587081022	**YGWA-30I**					
EPA 9315	Radium-226	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.268 ± 0.405 (0.866)	pCi/L		03/21/22 15:36	
92587081023	**YGWA-4I**					
EPA 9315	Radium-226	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.996 ± 0.555 (0.898)	pCi/L		03/21/22 15:36	
92587081024	**YGWA-5D**					
EPA 9315	Radium-226	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L		03/18/22 10:23	
EPA 9320	Radium-228	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	3.33 ± 0.915 (0.861)	pCi/L		03/21/22 15:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081025	**UP-EB-2**					
EPA 9315	Radium-226	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.168 ± 0.380 (0.850)	pCi/L		03/22/22 15:27	
92587081026	**UP-FB-2**					
EPA 9315	Radium-226	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.202 ± 0.617 (1.39)	pCi/L		03/22/22 15:27	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-39 **Lab ID: 92587081001** Collected: 02/08/22 14:55 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.621 ± 0.193 (0.145) C:97% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.213 ± 0.292 (0.626) C:86% T:87%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.834 ± 0.485 (0.771)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-40 **Lab ID: 92587081002** Collected: 02/08/22 13:22 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.390 ± 0.164 (0.197) C:87% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.144 ± 0.283 (0.623) C:84% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.534 ± 0.447 (0.820)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-47 **Lab ID: 92587081003** Collected: 02/08/22 11:40 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.241 ± 0.130 (0.183) C:91% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.159 ± 0.245 (0.528) C:84% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.400 ± 0.375 (0.711)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: GWA-2 **Lab ID: 92587081004** Collected: 02/08/22 11:50 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.151 ± 0.105 (0.166) C:89% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311 ± 0.281 (0.568) C:87% T:90%**	pCi/L	03/04/22 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.462 ± 0.386 (0.734)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-1 **Lab ID: 92587081005** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.138 ± 0.115 (0.208) C:75% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.617 ± 0.346 (0.625) C:86% T:88%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.755 ± 0.461 (0.833)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-1I **Lab ID: 92587081006** Collected: 02/09/22 13:45 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.211 ± 0.123 (0.190) C:95% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.211 ± 0.575 (1.28) C:78% T:88%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.422 ± 0.698 (1.47)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-1D **Lab ID: 92587081007** Collected: 02/09/22 14:45 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.294 ± 0.135 (0.159) C:93% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.893 ± 0.529 (0.973) C:78% T:89%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.664 (1.13)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-2I **Lab ID: 92587081008** Collected: 02/09/22 17:35 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.205 ± 0.114 (0.150) C:91% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.689 ± 0.535 (1.05) C:77% T:90%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.894 ± 0.649 (1.20)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-3I **Lab ID: 92587081009** Collected: 02/09/22 11:35 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.817 ± 0.240 (0.170) C:83% T:NA**	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.451 (0.731) C:81% T:89%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.91 ± 0.691 (0.901)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-3D **Lab ID: 92587081010** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.41 ± 0.334 (0.200) C:96% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.87 ± 0.560 (0.704) C:82% T:90%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.28 ± 0.894 (0.904)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-EB-1 **Lab ID: 92587081011** Collected: 02/09/22 13:06 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0487 ± 0.0838 (0.189) C:97% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.387 ± 0.291 (0.568) C:83% T:97%**	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.436 ± 0.375 (0.757)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-FB-1 **Lab ID: 92587081012** Collected: 02/09/22 10:47 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0259 ± 0.0622 (0.149) C:95% T:NA**	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.546 ± 0.343 (0.645) C:81% T:93%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.572 ± 0.405 (0.794)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-17S **Lab ID: 92587081013** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.131 ± 0.0871 (0.122) C:95% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.00169 ± 0.325 (0.756) C:78% T:89%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.133 ± 0.412 (0.878)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-18S **Lab ID: 92587081014** Collected: 02/09/22 12:24 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0618 ± 0.0753 (0.152) C:93% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0652 ± 0.340 (0.796) C:81% T:91%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0618 ± 0.415 (0.948)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-18I **Lab ID: 92587081015** Collected: 02/09/22 14:31 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.107 ± 0.0873 (0.149) C:94% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.464 ± 0.334 (0.645) C:76% T:92%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.571 ± 0.421 (0.794)**	pCi/L	03/14/22 21:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-20S **Lab ID: 92587081016** Collected: 02/09/22 16:19 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0382 ± 0.0564 (0.120) C:92% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.466 ± 0.326 (0.625) C:78% T:93%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.504 ± 0.382 (0.745)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-21I **Lab ID: 92587081017** Collected: 02/09/22 17:40 Received: 02/10/22 17:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.790 ± 0.237 (0.195) C:86% T:NA**	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.15 ± 0.478 (0.782) C:81% T:88%**	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.94 ± 0.715 (0.977)**	pCi/L	03/14/22 21:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-5I **Lab ID: 92587081018** Collected: 02/10/22 17:27 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0387 ± 0.0686 (0.155) C:92% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.336 ± 0.397 (0.841) C:85% T:89%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375 ± 0.466 (0.996)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-3 **Lab ID: 92587081019** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.183 ± 0.111 (0.169) C:95% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.150 ± 0.507 (1.19) C:69% T:82%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.183 ± 0.618 (1.36)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-14S **Lab ID: 92587081020** Collected: 02/10/22 16:20 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0197 ± 0.0632 (0.190) C:92% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.199 ± 0.449 (1.06) C:75% T:89%**	pCi/L	03/04/22 12:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.512 (1.25)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-DUP-2 **Lab ID: 92587081021** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0406 ± 0.0923 (0.219) C:63% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.195 ± 0.313 (0.784) C:91% T:90%**	pCi/L	03/04/22 18:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0406 ± 0.405 (1.00)**	pCi/L	03/21/22 15:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-30I **Lab ID: 92587081022** Collected: 02/10/22 09:20 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0634 ± 0.0744 (0.148) C:89% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.205 ± 0.331 (0.718) C:68% T:87%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.268 ± 0.405 (0.866)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-4I **Lab ID: 92587081023** Collected: 02/11/22 10:40 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.501 ± 0.174 (0.154) C:90% T:NA**	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.495 ± 0.381 (0.744) C:69% T:88%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.996 ± 0.555 (0.898)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: YGWA-5D **Lab ID: 92587081024** Collected: 02/10/22 17:46 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.47 ± 0.487 (0.124) C:87% T:NA**	pCi/L	03/18/22 10:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.856 ± 0.428 (0.737) C:69% T:93%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.33 ± 0.915 (0.861)**	pCi/L	03/21/22 15:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-EB-2 **Lab ID: 92587081025** Collected: 02/10/22 11:40 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0353 ± 0.0661 (0.151) C:97% T:NA**	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.133 ± 0.314 (0.699) C:75% T:90%**	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.168 ± 0.380 (0.850)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Sample: UP-FB-2 **Lab ID: 92587081026** Collected: 02/10/22 17:13 Received: 02/11/22 16:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0543 ± 0.0745 (0.158) C:98% T:NA**	pCi/L	03/22/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.148 ± 0.542 (1.23) C:72% T:89%**	pCi/L	03/08/22 18:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.202 ± 0.617 (1.39)**	pCi/L	03/22/22 15:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486614
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

METHOD BLANK: 2353261
Matrix: Water
Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0547 ± 0.0680 (0.137) C:95% T:NA	pCi/L	03/18/22 09:04	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486659
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081021

METHOD BLANK: 2353495 Matrix: Water
Associated Lab Samples: 92587081021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.115 ± 0.191 (0.414) C:101% T:93%	pCi/L	03/04/22 12:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486616
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081025, 92587081026

METHOD BLANK: 2353263 Matrix: Water
Associated Lab Samples: 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00708 ± 0.0659 (0.175) C:97% T:NA	pCi/L	03/22/22 09:52	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 485944
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

METHOD BLANK: 2349863
Matrix: Water
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0634 ± 0.0745 (0.148) C:93% T:NA	pCi/L	03/14/22 08:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486657
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

METHOD BLANK: 2353492
Matrix: Water
Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007, 92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014, 92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.110 ± 0.223 (0.492) C:84% T:94%	pCi/L	03/04/22 12:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

QC Batch: 486660
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

METHOD BLANK: 2353496 Matrix: Water
Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0198 ± 0.286 (0.668) C:70% T:93%	pCi/L	03/08/22 15:19	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081001	YGWA-39	EPA 9315	485944		
92587081002	YGWA-40	EPA 9315	485944		
92587081003	YGWA-47	EPA 9315	485944		
92587081004	GWA-2	EPA 9315	485944		
92587081005	UP-DUP-1	EPA 9315	485944		
92587081006	YGWA-1I	EPA 9315	485944		
92587081007	YGWA-1D	EPA 9315	485944		
92587081008	YGWA-2I	EPA 9315	485944		
92587081009	YGWA-3I	EPA 9315	485944		
92587081010	YGWA-3D	EPA 9315	485944		
92587081011	UP-EB-1	EPA 9315	485944		
92587081012	UP-FB-1	EPA 9315	485944		
92587081013	YGWA-17S	EPA 9315	485944		
92587081014	YGWA-18S	EPA 9315	485944		
92587081015	YGWA-18I	EPA 9315	485944		
92587081016	YGWA-20S	EPA 9315	485944		
92587081017	YGWA-21I	EPA 9315	485944		
92587081018	YGWA-5I	EPA 9315	486614		
92587081019	UP-DUP-3	EPA 9315	486614		
92587081020	YGWA-14S	EPA 9315	486614		
92587081021	UP-DUP-2	EPA 9315	486614		
92587081022	YGWA-30I	EPA 9315	486614		
92587081023	YGWA-4I	EPA 9315	486614		
92587081024	YGWA-5D	EPA 9315	486614		
92587081025	UP-EB-2	EPA 9315	486616		
92587081026	UP-FB-2	EPA 9315	486616		
92587081001	YGWA-39	EPA 9320	486657		
92587081002	YGWA-40	EPA 9320	486657		
92587081003	YGWA-47	EPA 9320	486657		
92587081004	GWA-2	EPA 9320	486657		
92587081005	UP-DUP-1	EPA 9320	486657		
92587081006	YGWA-1I	EPA 9320	486657		
92587081007	YGWA-1D	EPA 9320	486657		
92587081008	YGWA-2I	EPA 9320	486657		
92587081009	YGWA-3I	EPA 9320	486657		
92587081010	YGWA-3D	EPA 9320	486657		
92587081011	UP-EB-1	EPA 9320	486657		
92587081012	UP-FB-1	EPA 9320	486657		
92587081013	YGWA-17S	EPA 9320	486657		
92587081014	YGWA-18S	EPA 9320	486657		
92587081015	YGWA-18I	EPA 9320	486657		
92587081016	YGWA-20S	EPA 9320	486657		
92587081017	YGWA-21I	EPA 9320	486657		
92587081018	YGWA-5I	EPA 9320	486657		
92587081019	UP-DUP-3	EPA 9320	486657		
92587081020	YGWA-14S	EPA 9320	486657		
92587081021	UP-DUP-2	EPA 9320	486659		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT RAD
Pace Project No.: 92587081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081022	**YGWA-30I**	EPA 9320	486660		
92587081023	**YGWA-4I**	EPA 9320	486660		
92587081024	**YGWA-5D**	EPA 9320	486660		
92587081025	**UP-EB-2**	EPA 9320	486660		
92587081026	**UP-FB-2**	EPA 9320	486660		
92587081001	**YGWA-39**	Total Radium Calculation	490241		
92587081002	**YGWA-40**	Total Radium Calculation	490241		
92587081003	**YGWA-47**	Total Radium Calculation	490241		
92587081004	**GWA-2**	Total Radium Calculation	490241		
92587081005	**UP-DUP-1**	Total Radium Calculation	490241		
92587081006	**YGWA-1I**	Total Radium Calculation	490241		
92587081007	**YGWA-1D**	Total Radium Calculation	490241		
92587081008	**YGWA-2I**	Total Radium Calculation	490241		
92587081009	**YGWA-3I**	Total Radium Calculation	490241		
92587081010	**YGWA-3D**	Total Radium Calculation	490241		
92587081011	**UP-EB-1**	Total Radium Calculation	490241		
92587081012	**UP-FB-1**	Total Radium Calculation	490241		
92587081013	**YGWA-17S**	Total Radium Calculation	490241		
92587081014	**YGWA-18S**	Total Radium Calculation	490241		
92587081015	**YGWA-18I**	Total Radium Calculation	490241		
92587081016	**YGWA-20S**	Total Radium Calculation	490241		
92587081017	**YGWA-21I**	Total Radium Calculation	490241		
92587081018	**YGWA-5I**	Total Radium Calculation	491834		
92587081019	**UP-DUP-3**	Total Radium Calculation	491834		
92587081020	**YGWA-14S**	Total Radium Calculation	491834		
92587081021	**UP-DUP-2**	Total Radium Calculation	491834		
92587081022	**YGWA-30I**	Total Radium Calculation	491834		
92587081023	**YGWA-4I**	Total Radium Calculation	491834		
92587081024	**YGWA-5D**	Total Radium Calculation	491834		
92587081025	**UP-EB-2**	Total Radium Calculation	492151		
92587081026	**UP-FB-2**	Total Radium Calculation	492151		

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

92587091

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

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

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

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

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

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

Type of Ice:

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

Cooler Temp Corrected (°C): 2.5

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-39	WT	G	2/8/22	1455	-	-		5	2		3							X	X	X	X			pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	-	-		5	2		3							X	X	X	X			pH: 5.26
3	~~YGWA-11~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
4	~~YGWA-1D~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
5	~~YGWA-2I~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
6	~~YGWA-3I~~	WT	G			-	-		5	2		3							X	X	X	X			pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X			pH:
9	UP-DUP-2	WT	G			-	-		5	2		3							X	X	X	X			pH:
10	YGWA-30I	WT	G			-	-		5	2		3							X	X	X	X			pH:
11	UP-EB-1	WT	G			-	-		5	2		3							X	X	X	X			
12	UP-FB-1	WT	G			-	-		5	2		3							X	X	X	X			

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

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski
SIGNATURE of SAMPLER:
DATE Signed: 2/9/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						Y	Y	Y	Y	Y			pH: 5.to
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
4	~~YGWA-41~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y	Y			pH:
5	~~YGWA-51~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
7	~~YGWA-50~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
8	~~YGWA-175~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
9	~~UGWA-185~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
10	~~YGWA-181~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
11	~~YGWA-205~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:
12	~~YGWA-211~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						Y	Y	Y	Y				pH:

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

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825
/Arcadis	2/9/22	1018	/	2/9	1018

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesh

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency	
State / Location	Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-47~~	WT	G	[illegible]	[illegible]	[illegible]	[illegible]		5	2		3							X	X	X	X			pH:
2	GWA-2	WT	G	2-08	1045	2-08	11:50		5	2		3							X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G	2-08	[illegible]	–	–		5	2		3							X	X	X	X	X		pH: ~~[illegible]~~
4	~~YGWA-4I~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		5	2		3							X	X	X				pH:
6	~~UP-DUP-3~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
9	UGWA-18S	WT	G			–	–		5	2		3							X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		5	2		3							X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840	[signature]	2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/22	1018	[signature]	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 02-09-22

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

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

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 2/10/22 CM

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

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

Thermometer: ☑ IR Gun ID: 214 ☐ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.4 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 3.5

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-39~~	WT	G						5	2		3						Requested Analysis Filtered (Y/N)	X	X	X	X		
2	~~YGWA-40~~	WT	G						5	2		3							X	X	X	X		
3	YGWA-1I	WT	G	2/9/22	1345	--	--		5	2		3							X	X	X	X		
4	YGWA-1D	WT	G	2/9/22	1445	--	--		5	2		3							X	X	X	X		
5	YGWA-2I	WT	G	2/9/22	1355	--	--		5	2		3							X	X	X	X		
6	YGWA-3I	WT	G	2/9/22	1135	--	--		5	2		3							X	X	X	X		
7	YGWA-3D	WT	G	2/9/22	1020	--	--		5	2		3							X	X	X	X		
8	~~YGWA-14S~~	WT	G			--	--		5	2		3							X	X	X	X		
9	~~UP-DUP-2~~	WT	G			--	--		5	2		3							X	X	X	X		
10	~~YGWA-30I~~	WT	G			--	--		5	2		3							X	X	X	X		
11	~~UP-EB-1~~	WT	G			--	--		5	2		3							X	X	X	X		
12	~~UP-FB-1~~	WT	G			--	--		3	2		3							X	X	X	X		

Residual Chlorine (Y/N): pH: ; pH: ; pH: 6.24; pH: 7.12; pH: 5.89; pH: 7.66; pH: 7.07; pH: ; pH: ; pH: ; pH: ;

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suits 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/22	1435		2/10/22	1435
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/10/22	1700		2/10/22	1700
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/10/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-6S	WT	G						5	2		3						X	X	X	X			pH:
2	YGWA-4D	WT	G						5	2		3						X	X	X	X			pH:
3	YGWA-1I	WT	G						5	2		3						X	X	X	X			pH:
4	YGWA-1D	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	YGWA-2I	WT	G						5	2		3						X	X	X	X			pH:
6	YGWA-3I	WT	G						5	2		3						X	X	X	X			pH:
7	YGWA-3D	WT	G						5	2		3						X	X	X	X			pH:
8	YGWA-14S	WT	G						5	2		3						X	X	X	X			pH:
9	UP-DUP-2	WT	G						5	2		3						X	X	X	X			pH:
10	YGWA-30I	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	UP-EB-1	WT	G	2/9/22	1304	–	–		5	2		3						X	X	X	X			
12	UP-FB-1	WT	G	2/9/22	1047	–	–		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435		2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-47~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
2	~~GWA-2~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
3	~~UP-DUP-1~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
4	~~YGWA-4I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~
5	~~MOWA-5I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
6	~~UP-DUP-3~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
7	~~YGWA-5D~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~
8	YGWA-17S	WT	G	2/9/22	1020	–	–		5	2		3						Y	X	X	X	X		pH: 5.53
9	UGWA-18S	WT	G	2/9/22	1224	–	–		5	2		3						Y	X	X	X	X		pH: 5.28
10	YGWA-18I	WT	G	2/9/22	1431	–	–		5	2		3						Y	X	X	X	X		pH: 5.98
11	YGWA-20S	WT	G	2/9/22	1619	–	–		5	2		3						Y	X	X	X	X		pH: 5.91
12	YGWA-21I	WT	G	2/9/22	1740	–	–		5	2		3						Y	X	X	X	X		pH: 6.84

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435	/ Arcadis	2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/ Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

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

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

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92587091

PM: NTC **Due Date:** 02/23/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: JAE 2/11/22

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

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

Thermometer: ☐ IR Gun ID: 214 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) +.1

Cooler Temp Corrected (°C): 4.2

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

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I /II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-4?	WT	G						5	2		3							X	X	X	X			
2	GWA-2	WT	G			-	-		5	2		3							X	X	X	X	X		
3	UP-DUP-1	WT	G			-			5	2		3							X	X	X	X	X		
4	YGWA-4I	WT	G			-	-		5	2		3							X	X	X	X			
5	YGWA-5I	WT	G	2/10/22	1727	-	-		5	2		3							X	X	X	-			5.14
6	UP-DUP-3	WT	G	2/10/22	-	-	-		5	2		3							X	X	X	X			
7	YGWA-5D	WT	G						5	2		3							X	X	X	X			
8	YGWA-17S	WT	G						5	2		3							X	X	X	X			
9	UGWA-10S	WT	G						5	2		3							X	X	X	X			
10	YGWA-10I	WT	G			-	-		5	2		3							X	X	X	X			
11	YGWA-20S	WT	G			-	-		5	2		3							X	X	X	X			
12	YGWA-21I	WT	G			-	-		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/11/22	1445	Khalil Carson/Arcadis	2/11/22	1445
Khalil Carson	2/11/22	1645		2/11/22	1695

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G			--	--		5	2		3							X	X	X	X			pH
2	YGWA-40	WT	G			--	--		5	2		3							X	X	X	X			pH
3	YGWA-1I	WT	G			--	--		5	2		3							X	X	X	X			pH
4	YGWA-1D	WT	G			--	--		5	2		3							X	X	X	X			pH
5	YGWA-2I	WT	G			--	--		5	2		3							X	X	X	X			pH
6	YGWA-3I	WT	G			--	--		5	2		3							X	X	X	X			pH
7	YGWA-3D	WT	G			--	--		5	2		3							X	X	X	X			pH
8	YGWA-14S	WT	G	02/16/22	Hold	--	--		5	2		3							X	X	X	X			pH
9	UP-DUP-2	WT	G	02/16/22		--	--		5	2		3							X	X	X	X			pH 4.50
10	YGWA-30I	WT	G	02/17/22	0920	--	--		5	2		3							X	X	X	X			pH 5.59
11	UP-EB-1	WT	G			--	--		5	2		3							X	X	X	X			pH
12	UP-FB-1	WT	G			--	--		5	2		3							X	X	X	X			pH

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	02/11/22	1645	Joan T	2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/11/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 4 Of 4

Section A
Required Client Information:

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

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G			–	–		5	2		3							X	X	X	X				pH:
2	GWA-2	WT	G			–	–		5	2		3							X	X	X	X		X		pH:
3	UP-DUP-1	WT	G			–	–		5	2		3							X	X	X	X		X		pH:
4	YGWA-4I	WT	G	2/11	1040	–	–		5	2		3							X	X	X	X				pH: 5.95
5	YGWA-5I	WT	G			–	–		5	2		3							X	X	X	[illegible]				pH:
6	UP-DUP-3	WT	G			–	–		5	2		3							X	X	X	X				pH:
7	YGWA-5D	WT	G	2/10	1746	–	–		5	2		3							X	X	X	X				pH: 6.99
8	YGWA-17S	WT	G			–	–		5	2		3							X	X	X	X				pH:
9	UGWA-18S	WT	G			–	–		5	2		3							X	X	X	X				pH:
10	YGWA-18I	WT	G			–	–		5	2		3							X	X	X	X				pH:
11	YGWA-20S	WT	G			–	–		5	2		3							X	X	X	X				pH:
12	YGWA-21I	WT	G			–	–		5	2		3							X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson / Arcadis	02-11-45	1645	Ocorn Pace	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/10/22

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

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Page : 5 Of 5

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Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

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Invoice Information:

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

Regulatory Agency	
State / Location	
Georgia	

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

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

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1	UP-EB-2	WT	G	[illegible]	1140	–	–		5	2		3							X	X	X	X									pH
2	UP-FB-2	WT	G			–	–		5	2		3							X	X	X	X									pH
3						–	–																								
4						–	–																								
5						–	–																								
6						–	–																								
7						–	–																								
8						–	–																								
9						–	–																								
10						–	–																								
11						–	–																								
12						–	–																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	04/11/22	1445	Joann Faull	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

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

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Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~UP-EB-2~~	WT	G						5	2		3							X	X	X	X		
2	UP-FB-2	WT	G	2/10/2013		–	–		5	2		3							X	X	X	X			pH:
3						–	–																		pH:
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Khalil Carson	2/11/22	1645		2/11/22	1645
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Mark Elsner
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65255
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349863
MB concentration:	0.063
M/B Counting Uncertainty:	0.074
MB MDC:	0.148
MB Numerical Performance Indicator:	1.68
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65255	LCSD65255
Count Date:	3/14/2022	3/14/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.500
Target Conc. (pCi/L, g, F):	4.727	4.804
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.451	5.230
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.439	0.486
Numerical Performance Indicator:	-1.22	1.71
Percent Recovery:	94.16%	108.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65255	92587081001
Duplicate Sample I.D.	LCSD65255	92587081001DUP
Sample Result (pCi/L, g, F):	4.451	0.621
Sample Result Counting Uncertainty (pCi/L, g, F):	0.439	0.171
Sample Duplicate Result (pCi/L, g, F):	5.230	0.589
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.486	0.174
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-2.332	0.257
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.47%	5.30%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

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

Comments:

3/14/22

LAM 3/14/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	JC2
Date:	2/27/2022
Worklist:	65254
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2349823
MB concentration:	0.023
M/B Counting Uncertainty:	0.071
MB MDC:	0.175
MB Numerical Performance Indicator:	0.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65254	LCSD65254
Count Date:	3/11/2022	3/11/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.753	4.772
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.401	4.767
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.497	0.465
Numerical Performance Indicator:	2.54	-0.02
Percent Recovery:	113.63%	99.89%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS65254	92587078001
Duplicate Sample I.D.	LCSD65254	92587078001DUP
Sample Result (pCi/L, g, F):	5.401	0.273
Sample Result Counting Uncertainty (pCi/L, g, F):	0.497	0.136
Sample Duplicate Result (pCi/L, g, F):	4.767	0.177
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.465	0.106
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.824	1.094
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.87%	42.81%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

~~***Batch must be re-prepped due to unacceptable precision.***~~ N/A

UAM 3/14/22

3/14/22

UAM 3/14/22

Georgia Power Co. – Plant Yates

Data Review Report

Radium Analyses

SDG #92587081

Analyses Performed By:
Pace Analytical Services – Greensburg, Pennsylvania

Report #45262R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587081 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-39	92587081001	Water	2/8/2022		X		
YGWA-40	92587081002	Water	2/8/2022		X		
YGWA-47	92587081003	Water	2/8/2022		X		
GWA-2	92587081004	Water	2/8/2022		X		
UP-DUP-1	92587081005	Water	2/8/2022	GWA-2	X		
YGWA-1I	92587081006	Water	2/9/2022		X		
YGWA-1D	92587081007	Water	2/9/2022		X		
YGWA-2I	92587081008	Water	2/9/2022		X		
YGWA-3I	92587081009	Water	2/9/2022		X		
YGWA-3D	92587081010	Water	2/9/2022		X		
UP-EB-1	92587081011	Water	2/9/2022		X		
UP-FB-1	92587081012	Water	2/9/2022		X		
YGWA-17S	92587081013	Water	2/9/2022		X		
YGWA-18S	92587081014	Water	2/9/2022		X		
YGWA-18I	92587081015	Water	2/9/2022		X		
YGWA-20S	92587081016	Water	2/9/2022		X		
YGWA-21I	92587081017	Water	2/9/2022		X		
YGWA-5I	92587081018	Water	2/10/2022		X		
UP-DUP-3	92587081019	Water	2/10/2022	YGWA-5I	X		

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587081020	Water	2/10/2022		X		
UP-DUP-2	92587081021	Water	2/10/2022	YGWA-14S	X		
YGWA-30I	92587081022	Water	2/11/2022		X		
YGWA-4I	92587081023	Water	2/11/2022		X		
YGWA-5D	92587081024	Water	2/10/2022		X		
UP-EB-2	92587081025	Water	2/10/2022		X		
UP-FB-2	92587081026	Water	2/10/2022		X		

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 9315 and 9320. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MCD).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

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

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Radium-226	0.151 ± 0.105	0.138 ± 0.115	AC
	Radium-228	0.311 ± 0.281	0.617 ± 0.346	
	Total Radium	0.462 ± 0.386	0.755 ± 0.461	
YGWA-5I / UP-DUP-3	Radium-226	0.0387 ± 0.0686	0.183 ± 0.111	AC
	Radium-228	0.336 ± 0.397	-0.150 ± 0.507	
	Total Radium	0.375 ± 0.466	0.183 ± 0.618	
YGWA-14S / UP-DUP-2	Radium-226	-0.0197 ± 0.0632	0.0406 ± 0.0923	AC
	Radium-228	-0.199 ± 0.449	-0.195 ± 0.313	
	Total Radium	0.000 ± 0.512	0.0406 ± 0.405	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-5I and field duplicate sample UP-DUP-3 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery

between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YGWA-39, YGWA-1D, and YGWA-4I – Radium-228
- GWA-2, UP-DUP-1, YGWA-18S, YGWA-18I, YGWA-20S, YGWA-5I, YGWA-14S, UP-DUP-2, and YGWA-30I – Radium-226, Radium-228, and total Radium
- YGWA-40, YGWA-47, YGWA-1I, YGWA-2I, YGWA-17S, and UP-DUP-3 – Radium-228 and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 26, 2022

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G	2/8/22	1455	-	-		5	2		3							X	X	X	X				pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	-	-		5	2		3							X	X	X	X				pH: 5.26
3	~~YGWA-11~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
4	~~YGWA-1D~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
5	~~YGWA-2I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
6	~~YGWA-3I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			-	-		5	2		3							X	X	X	X				pH:
9	~~UP-DUP-2~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
10	~~YGWA-30I~~	WT	G			-	-		5	2		3							X	X	X	X				pH:
11	~~UP-EB-1~~	WT	G			-	-		5	2		3							X	X	X	X				
12	~~UP-FB-1~~	WT	G			-	-		5	2		3							X	X	X	X				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Address: Atlanta, GA
Email To:
Phone: Fax
Requested Due Date:

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						X	X	X	X				pH 5.to
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X			pH:
4	~~YGWA-41~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
5	~~YGWA-51~~	WT	G			–	–		~~3~~	~~2~~		~~3~~						X	X	X	-				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
7	~~YGWA-50~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X				pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825
/Arcadis	2/9/22	1018	/	2/9	1018

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesh

SIGNATURE of SAMPLER:

DATE Signed: 2/9/22

CHAIN-OF-CUSTODY / Analytical Request Document

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Address:	Atlanta, GA
Email To:	
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Requested Due Date:	

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Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-4T~~	WT	G	[illegible]	[illegible]	[illegible]	[illegible]		5	2		3							X	X	X	X			pH:
2	GWA-2	WT	G	[illegible]	1045	12-08	11:50		5	2		3							X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G	12-08	[illegible]	"	"		5	2		3							X	X	X	X	X		pH: [illegible]
4	~~YGWA-11~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			"	"		5	2		3							X	X	X	'			pH:
6	~~UP-DUP-3~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
9	UGWA-18S	WT	G			"	"		5	2		3							X	X	X	X			pH:
10	YGWA-18I	WT	G			"	"		5	2		3							X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			"	"		5	2		3							X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			"	"		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/22	0840	[signature]	2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/22	1018	[signature]	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Khalil Carter					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 02-09-22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-39~~	WT	G						5	2		3							X	X	X	X			
2	~~YGWA-40~~	WT	G						5	2		3							X	X	X	X			
3	YGWA-1I	WT	G	2/9/22	1345	--	--		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WT	G	2/9/22	1445	--	--		5	2		3							X	X	X	X			pH: 6.24
5	YGWA-2I	WT	G	2/9/22	1735	--	--		5	2		3							X	X	X	X			pH: 7.12
6	YGWA-3I	WT	G	2/9/22	1135	--	--		5	2		3							X	X	X	X			pH: 5.89
7	YGWA-3D	WT	G	2/9/22	1020	--	--		5	2		3							X	X	X	X			pH: 7.66
8	~~YGWA-14S~~	WT	G			--	--		5	2		3							X	X	X	X			pH: 7.07
9	~~UP-DUP-2~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
10	~~YGWA-30I~~	WT	G			--	--		6	2		3							X	X	X	X			pH:
11	~~UP-EB-1~~	WT	G			--	--		5	2		3							X	X	X	X			pH:
12	~~UP-FB-1~~	WT	G			--	--		3	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/22	1435		2/10/22	1433	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	2/10/22	1700		2/10/22	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/10/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Report To:	SCS Contacts
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Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-6S	WT	G						5	2		3						X	X	X	X			pH:
2	YGWA-4D	WT	G						5	2		3						X	X	X	X			pH:
3	YGWA-1I	WT	G						5	2		3						X	X	X	X			pH:
4	YGWA-1D	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	YGWA-2I	WT	G						5	2		3						X	X	X	X			pH:
6	YGWA-3I	WT	G						5	2		3						X	X	X	X			pH:
7	YGWA-3D	WT	G						5	2		3						X	X	X	X			pH:
8	YGWA-14S	WT	G						5	2		3						X	X	X	X			pH:
9	UP-DUP-2	WT	G						5	2		3						X	X	X	X			pH:
10	YGWA-30I	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	UP-EB-1	WT	G	2/9/22	1304	–	–		5	2		3						X	X	X	X			
12	UP-FB-1	WT	G	2/9/22	1047	–	–		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435		2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-47~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
2	~~GWA-2~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
3	~~UP-DUP-1~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
4	~~YGWA-4I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X	X	~~pH:~~ 25
5	~~MGWA-5I~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
6	~~UP-DUP-3~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
7	~~YGWA-5D~~	~~WT~~	~~G~~			–	–		5	2		3						Y	X	X	X	X		~~pH:~~ 25
8	YGWA-17S	WT	G	2/9/22	1020	–	–		5	2		3						Y	X	X	X	X		pH: 5.53
9	UGWA-18S	WT	G	2/9/22	1224	–	–		5	2		3						Y	X	X	X	X		pH: 5.28
10	YGWA-18I	WT	G	2/9/22	1431	–	–		5	2		3						Y	X	X	X	X		pH: 5.98
11	YGWA-20S	WT	G	2/9/22	1619	–	–		5	2		3						Y	X	X	X	X		pH: 5.91
12	YGWA-21I	WT	G	2/9/22	1740	–	–		5	2		3						Y	X	X	X	X		pH: 6.84

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/10/22	1435	/ Arcadis	2/10/22	1435	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/ Arcadis	2/10/22	1700		2/10	1700	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

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Address: Atlanta, GA
Email To:
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Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
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Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I /II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-4T	WT	G						5	2		3						Y	X	X	X	X		pH:
2	GWA-2	WT	G			-	-		5	2		3						Y	X	X	X	X	X	pH:
3	UP-DUP-1	WT	G			-			5	2		3						Y	X	X	X	X	X	pH:
4	YGWA-4I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
5	YGWA-5I	WT	G	2/10/22	1727	-	-		5	2		3						Y	X	X	X	-		pH: 5.14
6	UP-DUP-3	WT	G	2/10/22	-	-	-		5	2		3						Y	X	X	X	X		pH:
7	YGWA-5D	WT	G						5	2		3						Y	X	X	X	X		pH:
8	YGWA-17S	WT	G						5	2		3						Y	X	X	X	X		pH:
9	UGWA-18S	WT	G						5	2		3						Y	X	X	X	X		pH:
10	YGWA-18I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
11	YGWA-20S	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:
12	YGWA-21I	WT	G			-	-		5	2		3						Y	X	X	X	X		pH:

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/11/22	1445	Khalil Carson/Arcadis	2/11/22	1445
Khalil Carson	2/11/22	1645		2/11/22	1695

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 3 Of 7

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G			–	–		5	2		3							X	X	X	X			pH
2	YGWA-40	WT	G			–	–		5	2		3							X	X	X	X			pH
3	YGWA-1I	WT	G			–	–		5	2		3							X	X	X	X			pH
4	YGWA-1D	WT	G			–	–		5	2		3							X	X	X	X			pH
5	YGWA-2I	WT	G			–	–		5	2		3							X	X	X	X			pH
6	YGWA-3I	WT	G			–	–		5	2		3							X	X	X	X			pH
7	YGWA-3D	WT	G			–	–		5	2		3							X	X	X	X			pH
8	YGWA-14S	WT	G	02/10/22	1620	–	–		5	2		3							X	X	X	X			pH 4.50
9	UP-DUP-2	WT	G	02/10/22		–	–		5	2		3							X	X	X	X			pH
10	YGWA-30I	WT	G	02/11/22	0920	–	–		5	2		3							X	X	X	X			pH 5.59
11	UP-EB-1	WT	G			–	–		5	2		3							X	X	X	X			
12	UP-FB-1	WT	G			–	–		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	02/11/22	1645	Joann	2/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/10/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G			–	–		5	2		3							X	X	X	X			pH:
2	GWA-2	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
3	UP-DUP-1	WT	G			–	–		5	2		3							X	X	X	X	X		pH:
4	YGWA-4I	WT	G	2/11	1040	–	–		5	2		3							X	X	X	X			pH: 5.95
5	YGWA-5I	WT	G			–	–		5	2		3							X	X	X	·			pH:
6	UP-DUP-3	WT	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-5D	WT	G	2/10	1746	–	–		5	2		3							X	X	X	X			pH: 6.99
8	YGWA-17S	WT	G			–	–		5	2		3							X	X	X	X			pH:
9	UGWA-18S	WT	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-18I	WT	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-20S	WT	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-21I	WT	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson Arcadis	02-11-25	1645	Joann Pack	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 02/10/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 5 Of 5

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	UP-EB-2	WT	G	[illegible]	1140	–	–		5	2		3							X	X	X	X			pH
2	UP-FB-2	WT	G			–	–		5	2		3							X	X	X	X			pH
3						–	–																		
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[illegible] Carson /Arcadis	04/11/22	[illegible]	Joann [illegible]	4/11/22	1645	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

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Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~UP-EB-2~~	~~WT~~	~~G~~						5	2		3							X	X	X	X		
2	UP-FB-2	WT	G	2/10/2013		–	–		5	2		3							X	X	X	X			pH:
3						–	–																		pH:
4						–	–																		
5						–	–																		
6						–	–																		
7						–	–																		
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/11/22	1445	Khalil Carson	2/11/22	1445
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Khalil Carson	2/11/22	1645		2/11/22	1645
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)						

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: 2/11/22

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587081	No qualifiers assigned						

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 25, 2022

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nicole D'Oleo

Nicole D'Oleo
nicole.d'oleo@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas
Caitlin Tillema, ERM
Christine Weaver, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587091001	**YGWA-39**	Water	02/08/22 14:55	02/09/22 10:18
92587091002	**YGWA-40**	Water	02/08/22 13:22	02/09/22 10:18
92587091003	**YGWA-47**	Water	02/08/22 11:40	02/09/22 10:18
92587091004	**GWA-2**	Water	02/08/22 11:50	02/09/22 10:18
92587091005	**UP-DUP-1**	Water	02/08/22 00:00	02/09/22 10:18
92587091006	**YGWA-1I**	Water	02/09/22 13:45	02/10/22 17:00
92587091007	**YGWA-1D**	Water	02/09/22 14:45	02/10/22 17:00
92587091008	**YGWA-2I**	Water	02/09/22 17:35	02/10/22 17:00
92587091009	**YGWA-3I**	Water	02/09/22 11:35	02/10/22 17:00
92587091010	**YGWA-3D**	Water	02/09/22 10:20	02/10/22 17:00
92587091011	**UP-EB-1**	Water	02/09/22 13:06	02/10/22 17:00
92587091012	**UP-FB-1**	Water	02/09/22 10:47	02/10/22 17:00
92587091013	**YGWA-17S**	Water	02/09/22 10:20	02/10/22 17:00
92587091014	**YGWA-18S**	Water	02/09/22 12:24	02/10/22 17:00
92587091015	**YGWA-18I**	Water	02/09/22 14:31	02/10/22 17:00
92587091016	**YGWA-20S**	Water	02/09/22 16:19	02/10/22 17:00
92587091017	**YGWA-21I**	Water	02/09/22 17:40	02/10/22 17:00
92587091018	**YGWA-5I**	Water	02/10/22 17:27	02/11/22 16:45
92587091019	**UP-DUP-3**	Water	02/10/22 00:00	02/11/22 16:45
92587091020	**YGWA-14S**	Water	02/10/22 16:20	02/11/22 16:45
92587091021	**UP-DUP-2**	Water	02/10/22 00:00	02/11/22 16:45
92587091022	**YGWA-30I**	Water	02/11/22 09:20	02/11/22 16:45
92587091023	**YGWA-4I**	Water	02/11/22 10:40	02/11/22 16:45
92587091024	**YGWA-5D**	Water	02/10/22 17:46	02/11/22 16:45
92587091025	**UP-EB-2**	Water	02/10/22 11:40	02/11/22 16:45
92587091026	**UP-FB-2**	Water	02/10/22 17:13	02/11/22 16:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587091001	**YGWA-39**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091002	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091003	**YGWA-47**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091004	**GWA-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091005	**UP-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091006	**YGWA-1I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091007	**YGWA-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091008	**YGWA-2I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091009	**YGWA-3I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091010	**YGWA-3D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091011	**UP-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091012	**UP-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091013	**YGWA-17S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091014	**YGWA-18S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091015	**YGWA-18I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091016	**YGWA-20S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091017	**YGWA-21I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587091018	**YGWA-5I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091019	**UP-DUP-3**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091020	**YGWA-14S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091021	**UP-DUP-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091022	**YGWA-30I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091023	**YGWA-4I**	EPA 6010D	KH	1

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SAMPLE ANALYTE COUNT

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091024	**YGWA-5D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091025	**UP-EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091026	**UP-FB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091001	**YGWA-39**					
	Performed by	CUSTOMER			02/09/22 12:38	
	pH	5.78	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	15.2	mg/L	1.0	02/23/22 21:07	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 19:41	B
EPA 6020B	Barium	0.041	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Boron	0.13	mg/L	0.040	02/24/22 12:58	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	02/23/22 19:41	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Lithium	0.0080J	mg/L	0.030	02/23/22 19:41	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/23/22 19:41	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/15/22 08:56	
EPA 300.0 Rev 2.1 1993	Sulfate	14.6	mg/L	1.0	02/15/22 08:56	
92587091002	**YGWA-40**					
	Performed by	CUSTOMER			02/09/22 12:38	
	pH	5.26	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	6.0	mg/L	1.0	02/23/22 21:12	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/23/22 19:47	B
EPA 6020B	Barium	0.039	mg/L	0.0050	02/23/22 19:47	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/23/22 19:47	
EPA 6020B	Boron	0.074	mg/L	0.040	02/24/22 13:04	
EPA 6020B	Lithium	0.00076J	mg/L	0.030	02/23/22 19:47	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/23/22 19:47	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/16/22 15:55	
SM 2540C-2015	Total Dissolved Solids	93.0	mg/L	10.0	02/14/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/15/22 09:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	02/15/22 09:10	
92587091003	**YGWA-47**					
	Performed by	CUSTOMER			02/09/22 12:39	
	pH	5.40	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	9.4	mg/L	1.0	02/23/22 21:26	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/23/22 19:53	B
EPA 6020B	Barium	0.030	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	02/23/22 19:53	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/23/22 19:53	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/23/22 19:53	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/23/22 19:53	
SM 2540C-2015	Total Dissolved Solids	151	mg/L	10.0	02/15/22 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/15/22 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	50.9	mg/L	1.0	02/15/22 09:52	M1
92587091004	**GWA-2**					
	Performed by	CUSTOMER			02/09/22 12:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091004	**GWA-2**					
	pH	5.83	Std. Units		02/09/22 12:39	
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:31	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:59	B
EPA 6020B	Barium	0.037	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Cobalt	0.072	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/23/22 19:59	
EPA 6020B	Nickel	0.017	mg/L	0.0050	02/23/22 19:59	
EPA 6020B	Zinc	0.014	mg/L	0.010	02/23/22 19:59	
SM 2540C-2015	Total Dissolved Solids	283	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	3.0	02/15/22 18:19	
92587091005	**UP-DUP-1**					
EPA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:36	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 20:05	B
EPA 6020B	Barium	0.034	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Cobalt	0.055	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:05	
EPA 6020B	Nickel	0.014	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Zinc	0.012	mg/L	0.010	02/23/22 20:05	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Sulfate	102	mg/L	2.0	02/15/22 18:34	
92587091006	**YGWA-1I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	6.24	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	2.1	mg/L	1.0	02/23/22 21:50	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 20:23	B
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/23/22 20:23	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	02/23/22 20:23	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	02/23/22 20:23	
SM 2540C-2015	Total Dissolved Solids	57.0	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/16/22 13:32	
EPA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L	1.0	02/16/22 13:32	
92587091007	**YGWA-1D**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.12	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	14.9	mg/L	1.0	02/23/22 21:55	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/23/22 20:41	B
EPA 6020B	Barium	0.0067	mg/L	0.0050	02/23/22 20:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091007	**YGWA-1D**					
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	02/23/22 20:41	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/23/22 20:41	
EPA 6020B	Molybdenum	0.0093J	mg/L	0.010	02/23/22 20:41	
SM 2540C-2015	Total Dissolved Solids	105	mg/L	10.0	02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/16/22 13:46	M1
EPA 300.0 Rev 2.1 1993	Sulfate	9.3	mg/L	1.0	02/16/22 13:46	M1
92587091008	**YGWA-2I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	5.89	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.4	mg/L	1.0	02/23/22 21:59	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/23/22 20:47	B
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/23/22 20:47	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/23/22 20:47	
EPA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/23/22 20:47	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/16/22 14:28	
EPA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	02/16/22 14:28	
92587091009	**YGWA-3I**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.66	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	23.7	mg/L	1.0	02/23/22 22:42	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:09	B
EPA 6020B	Barium	0.0031J	mg/L	0.0050	02/24/22 17:09	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/24/22 17:09	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	02/24/22 17:09	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	02/16/22 14:42	
EPA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L	1.0	02/16/22 14:42	
92587091010	**YGWA-3D**					
	Performed by	CUSTOMER			02/11/22 10:07	
	pH	7.97	Std. Units		02/11/22 10:07	
EPA 6010D	Calcium	30.3	mg/L	1.0	02/23/22 22:47	M1
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	02/24/22 17:33	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/24/22 17:33	B
EPA 6020B	Barium	0.0051	mg/L	0.0050	02/24/22 17:33	
EPA 6020B	Boron	0.010J	mg/L	0.040	02/24/22 17:33	
EPA 6020B	Lithium	0.026J	mg/L	0.030	02/24/22 17:33	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	02/24/22 17:33	
SM 2540C-2015	Total Dissolved Solids	154	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/16/22 14:55	

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091010	**YGWA-3D**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/16/22 14:55	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/16/22 14:55	
92587091011	**UP-EB-1**					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/24/22 17:39	B
92587091012	**UP-FB-1**					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:45	B
92587091013	**YGWA-17S**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.53	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/23/22 23:25	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 17:51	B
EPA 6020B	Barium	0.017	mg/L	0.0050	02/24/22 17:51	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/24/22 17:51	
EPA 6020B	Boron	0.0098J	mg/L	0.040	02/24/22 17:51	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	02/16/22 16:55	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	02/16/22 16:55	
92587091014	**YGWA-18S**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.28	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	0.87J	mg/L	1.0	02/23/22 23:30	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:09	
EPA 6020B	Beryllium	0.000089J	mg/L	0.00050	02/24/22 18:09	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/22 18:09	B
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/24/22 18:09	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/16/22 17:09	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	02/16/22 17:09	
92587091015	**YGWA-18I**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	5.98	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	5.1	mg/L	1.0	02/23/22 23:35	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/24/22 18:15	B
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/22 18:15	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/24/22 18:15	
SM 2540C-2015	Total Dissolved Solids	103	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/16/22 17:22	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/16/22 17:22	
92587091016	**YGWA-20S**					
	Performed by	CUSTOMER			02/11/22 10:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091016	**YGWA-20S**					
	pH	5.91	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.3	mg/L	1.0	02/23/22 23:40	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 18:21	B
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:21	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	02/24/22 18:21	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/24/22 18:21	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/16/22 17:36	
92587091017	**YGWA-21I**					
	Performed by	CUSTOMER			02/11/22 10:08	
	pH	6.84	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	9.8	mg/L	1.0	02/23/22 23:44	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/22 18:27	B
EPA 6020B	Barium	0.011	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	02/24/22 18:27	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/17/22 02:57	
92587091018	**YGWA-5I**					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	5.14	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	2.5	mg/L	1.0	02/23/22 23:49	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:33	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:33	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/24/22 18:33	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 13:40	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 13:40	
92587091019	**UP-DUP-3**					
EPA 6010D	Calcium	2.6	mg/L	1.0	02/23/22 23:54	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 18:39	B
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/24/22 18:39	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 14:20	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 14:20	
92587091020	**YGWA-14S**					
	Performed by	CUSTOMER			02/14/22 11:36	
	pH	4.50	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/23/22 23:59	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:45	B

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091020	**YGWA-14S**					
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/24/22 18:45	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/24/22 18:45	
EPA 6020B	Boron	0.020J	mg/L	0.040	02/24/22 18:45	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/24/22 18:45	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:34	
EPA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/19/22 14:34	
92587091021	**UP-DUP-2**					
EPA 6010D	Calcium	1.2	mg/L	1.0	02/24/22 00:13	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/24/22 18:51	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 18:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/22 18:51	
EPA 6020B	Boron	0.018J	mg/L	0.040	02/24/22 18:51	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:47	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/19/22 14:47	
92587091022	**YGWA-30I**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.59	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/24/22 00:18	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 18:57	B
EPA 6020B	Barium	0.0077	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Cobalt	0.0038J	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/24/22 18:57	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/19/22 15:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.8	mg/L	1.0	02/19/22 15:01	
92587091023	**YGWA-4I**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	5.95	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/24/22 00:23	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 19:03	B
EPA 6020B	Barium	0.013	mg/L	0.0050	02/24/22 19:03	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/24/22 19:03	
SM 2540C-2015	Total Dissolved Solids	102	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/19/22 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	02/19/22 15:14	
92587091024	**YGWA-5D**					
	Performed by	CUSTOMER			02/14/22 11:37	
	pH	6.99	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/24/22 00:27	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/24/22 19:20	B
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 19:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091024	**YGWA-5D**					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/24/22 19:20	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/24/22 19:20	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	02/24/22 19:20	
SM 2540C-2015	Total Dissolved Solids	127	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/19/22 15:54	
92587091025	**UP-EB-2**					
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/24/22 19:32	B
92587091026	**UP-FB-2**					
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/24/22 19:38	B

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-39 **Lab ID: 92587091001** Collected: 02/08/22 14:55 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:38		
pH	**5.78**	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**15.2**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:41	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-38-2	B
Barium	**0.041**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:41	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 12:58	7440-42-8	
Cadmium	**0.00063**	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:41	7439-92-1	
Lithium	**0.0080J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:41	7439-93-2	
Molybdenum	**0.0035J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**248**	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.4**	mg/L	1.0	0.60	1		02/15/22 08:56	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		02/15/22 08:56	16984-48-8	
Sulfate	**14.6**	mg/L	1.0	0.50	1		02/15/22 08:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-40 **Lab ID: 92587091002** Collected: 02/08/22 13:22 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:38		
pH	**5.26**	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.0**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:12	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:47	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-38-2	B
Barium	**0.039**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:47	7440-39-3	
Beryllium	**0.00028J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:47	7440-41-7	
Boron	**0.074**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/24/22 13:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:47	7439-92-1	
Lithium	**0.00076J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:47	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.2**	mg/L	1.0	0.60	1		02/15/22 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:10	16984-48-8	
Sulfate	**17.9**	mg/L	1.0	0.50	1		02/15/22 09:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-47 **Lab ID: 92587091003** Collected: 02/08/22 11:40 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:39		
pH	**5.40**	Std. Units			1		02/09/22 12:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.4**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:26	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:53	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-38-2	B
Barium	**0.030**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:53	7440-39-3	
Beryllium	**0.000056J**	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:53	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:53	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**151**	mg/L	10.0	10.0	1		02/15/22 16:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/15/22 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:52	16984-48-8	M1
Sulfate	**50.9**	mg/L	1.0	0.50	1		02/15/22 09:52	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: GWA-2 **Lab ID: 92587091004** Collected: 02/08/22 11:50 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/09/22 12:39		
pH	**5.83**	Std. Units			1		02/09/22 12:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.6**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:59	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-38-2	B
Barium	**0.037**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 19:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 19:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:59	7440-47-3	
Cobalt	**0.072**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 19:59	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 19:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:59	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 19:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 19:59	7439-98-7	
Nickel	**0.017**	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 19:59	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:59	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 19:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 19:59	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 19:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**283**	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/15/22 10:34	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		02/15/22 10:34	16984-48-8	
Sulfate	**107**	mg/L	3.0	1.5	3		02/15/22 18:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-1 **Lab ID: 92587091005** Collected: 02/08/22 00:00 Received: 02/09/22 10:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.6**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:05	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-38-2	B
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-47-3	
Cobalt	**0.055**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:05	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 20:05	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:05	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:05	7439-98-7	
Nickel	**0.014**	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 20:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 20:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 20:05	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 20:05	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**271**	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/15/22 10:48	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/15/22 10:48	16984-48-8	
Sulfate	**102**	mg/L	2.0	1.0	2		02/15/22 18:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-1I **Lab ID: 92587091006** Collected: 02/09/22 13:45 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**6.24**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.1**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:50	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:23	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-38-2	B
Barium	**0.0088**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:23	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:23	7439-93-2	
Molybdenum	**0.0055J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**57.0**	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		02/16/22 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 13:32	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	0.50	1		02/16/22 13:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-1D **Lab ID: 92587091007** Collected: 02/09/22 14:45 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.12**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.9**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:41	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-38-2	B
Barium	**0.0067**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41	7440-47-3	
Cobalt	**0.00072J**	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:41	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:41	7439-93-2	
Molybdenum	**0.0093J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**105**	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		02/16/22 13:46	16887-00-6	M1
Fluoride	**0.057J**	mg/L	0.10	0.050	1		02/16/22 13:46	16984-48-8	M1
Sulfate	**9.3**	mg/L	1.0	0.50	1		02/16/22 13:46	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-2I **Lab ID: 92587091008** Collected: 02/09/22 17:35 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**5.89**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.4**	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:47	7440-36-0	
Arsenic	**0.0037J**	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-38-2	B
Barium	**0.0029J**	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:47	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:47	7439-93-2	
Molybdenum	**0.0057J**	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**156**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0J**	mg/L	1.0	0.60	1		02/16/22 14:28	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/16/22 14:28	16984-48-8	
Sulfate	**18.0**	mg/L	1.0	0.50	1		02/16/22 14:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3I **Lab ID: 92587091009** Collected: 02/09/22 11:35 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.66**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.7**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:09	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-38-2	B
Barium	**0.0031J**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:09	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:09	7439-93-2	
Molybdenum	**0.0087J**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**145**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/16/22 14:42	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		02/16/22 14:42	16984-48-8	
Sulfate	**16.0**	mg/L	1.0	0.50	1		02/16/22 14:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-3D **Lab ID: 92587091010** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:07		
pH	**7.97**	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.3**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:47	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0018J**	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:33	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-38-2	B
Barium	**0.0051**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:33	7440-41-7	
Boron	**0.010J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:33	7439-92-1	
Lithium	**0.026J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:33	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**154**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/16/22 14:55	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	0.050	1		02/16/22 14:55	16984-48-8	
Sulfate	**7.2**	mg/L	1.0	0.50	1		02/16/22 14:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-1 **Lab ID: 92587091011** Collected: 02/09/22 13:06 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:39	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-1 **Lab ID: 92587091012** Collected: 02/09/22 10:47 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:45	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-17S **Lab ID: 92587091013** Collected: 02/09/22 10:20 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.53**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.8**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:51	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-38-2	B
Barium	**0.017**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:51	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:51	7440-41-7	
Boron	**0.0098J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.9**	mg/L	1.0	0.60	1		02/16/22 16:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 16:55	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		02/16/22 16:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-18S **Lab ID: 92587091014** Collected: 02/09/22 12:24 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.28**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.87J**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:30	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:09	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-38-2	B
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:09	7440-39-3	
Beryllium	**0.000089J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:09	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:09	7440-47-3	B
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:09	7439-92-1	
Lithium	**0.0015J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**60.0**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		02/16/22 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:09	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		02/16/22 17:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-18I **Lab ID: 92587091015** Collected: 02/09/22 14:31 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.98**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.1**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:35	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:15	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-38-2	B
Barium	**0.021**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:15	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**103**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		02/16/22 17:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:22	16984-48-8	
Sulfate	**0.51J**	mg/L	1.0	0.50	1		02/16/22 17:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-20S **Lab ID: 92587091016** Collected: 02/09/22 16:19 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**5.91**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.3**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:40	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:21	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-38-2	B
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:21	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:21	7439-92-1	
Lithium	**0.00082J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**72.0**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		02/16/22 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 17:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-21I **Lab ID: 92587091017** Collected: 02/09/22 17:40 Received: 02/10/22 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/11/22 10:08		
pH	**6.84**	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.8**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:27	7440-36-0	
Arsenic	**0.0036J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-38-2	B
Barium	**0.011**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-47-3	
Cobalt	**0.0078**	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:27	7439-92-1	
Lithium	**0.0061J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**131**	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.7**	mg/L	1.0	0.60	1		02/17/22 02:57	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/17/22 02:57	16984-48-8	
Sulfate	**3.9**	mg/L	1.0	0.50	1		02/17/22 02:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5I **Lab ID: 92587091018** Collected: 02/10/22 17:27 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:36		
pH	**5.14**	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:49	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:33	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:33	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**77.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/19/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 13:40	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		02/19/22 13:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-3 **Lab ID: 92587091019** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.6**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:54	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:39	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:39	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/19/22 14:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:20	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		02/19/22 14:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-14S **Lab ID: 92587091020** Collected: 02/10/22 16:20 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:36		
pH	**4.50**	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:45	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-38-2	B
Barium	**0.0088**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:45	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:45	7440-41-7	
Boron	**0.020J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:45	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**56.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/19/22 14:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:34	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	0.50	1		02/19/22 14:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-DUP-2 **Lab ID: 92587091021** Collected: 02/10/22 00:00 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:13	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:51	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-38-2	B
Barium	**0.0084**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:51	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:51	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**53.0**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/19/22 14:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:47	16984-48-8	
Sulfate	**6.1**	mg/L	1.0	0.50	1		02/19/22 14:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-30I **Lab ID: 92587091022** Collected: 02/11/22 09:20 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**5.59**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:57	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-38-2	B
Barium	**0.0077**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:57	7440-47-3	
Cobalt	**0.0038J**	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:57	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**66.0**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		02/19/22 15:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:01	16984-48-8	
Sulfate	**2.8**	mg/L	1.0	0.50	1		02/19/22 15:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-4I **Lab ID: 92587091023** Collected: 02/11/22 10:40 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**5.95**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.5**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:03	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-38-2	B
Barium	**0.013**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:03	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**102**	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		02/19/22 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:14	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	0.50	1		02/19/22 15:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: YGWA-5D **Lab ID: 92587091024** Collected: 02/10/22 17:46 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		02/14/22 11:37		
pH	**6.99**	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**24.8**	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:20	7440-36-0	
Arsenic	**0.0040J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-38-2	B
Barium	**0.0084**	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:20	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:20	7439-92-1	
Lithium	**0.0076J**	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:20	7439-93-2	
Molybdenum	**0.00096J**	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**127**	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/19/22 15:54	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/19/22 15:54	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		02/19/22 15:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-EB-2 **Lab ID: 92587091025** Collected: 02/10/22 11:40 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:37	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:32	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Sample: UP-FB-2 **Lab ID: 92587091026** Collected: 02/10/22 17:13 Received: 02/11/22 16:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:38	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680120 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558408 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 19:59	

LABORATORY CONTROL SAMPLE: 3558409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

Parameter	Units	92587089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	9.3	1	1	10.5	10.5	117	119	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680226 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558817 — Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/22 22:33	

LABORATORY CONTROL SAMPLE: 3558818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0J	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558819 3558820

Parameter	Units	92587091010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.3	1	1	30.2	29.9	-12	-45	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680115
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3558393 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Copper	mg/L	ND	0.0050	0.00050	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Nickel	mg/L	ND	0.0050	0.00071	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Silver	mg/L	ND	0.0050	0.00044	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	
Vanadium	mg/L	ND	0.010	0.0019	02/23/22 18:18	
Zinc	mg/L	ND	0.010	0.0070	02/23/22 18:18	

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	104	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	107	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558395 3558396

Parameter	Units	92587089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Copper	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Nickel	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 680225
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558813
Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 16:57	
Arsenic	mg/L	0.0015J	0.0050	0.0011	02/24/22 16:57	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 16:57	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 16:57	
Boron	mg/L	ND	0.040	0.0086	02/24/22 16:57	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 16:57	
Chromium	mg/L	0.0019J	0.0050	0.0011	02/24/22 16:57	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 16:57	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 16:57	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 16:57	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 16:57	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 16:57	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 16:57	

LABORATORY CONTROL SAMPLE: 3558814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558815 3558816

Parameter	Units	92587091009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	110	75-125	3	20	
Arsenic	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	104	75-125	2	20	
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	102	106	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Boron	mg/L	ND	1	1	1.1	1.1	109	106	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	0.021J	0.1	0.1	0.13	0.13	114	113	75-125	1	20	
Molybdenum	mg/L	0.0087J	0.1	0.1	0.12	0.12	107	110	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678406
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

METHOD BLANK: 3550211 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007, 92587091008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 14:36	

LABORATORY CONTROL SAMPLE: 3550212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

Parameter	Units	92587089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0019	0.0018	77	74	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678756
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

METHOD BLANK: 3551942 Matrix: Water
Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017, 92587091018, 92587091019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/18/22 13:04	

LABORATORY CONTROL SAMPLE: 3551943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551944 3551945

Parameter	Units	92588161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0022	88	87	75-125	1	20	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679675 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3556124 Matrix: Water
Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/22/22 10:33	

LABORATORY CONTROL SAMPLE: 3556125

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

Parameter	Units	92587091020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0026	96	101	75-125	5	20	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678110
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091001, 92587091002

METHOD BLANK: 3548928 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/14/22 15:13	

LABORATORY CONTROL SAMPLE: 3548929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 3548930

Parameter	Units	92587701001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	25	

SAMPLE DUPLICATE: 3548931

Parameter	Units	92587089005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678369
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3550014 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:02	

LABORATORY CONTROL SAMPLE: 3550015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3550016

Parameter	Units	92587091003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	25	

SAMPLE DUPLICATE: 3550017

Parameter	Units	92587322007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1080	7	25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678370 — Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 — Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

METHOD BLANK: 3550019 — Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016, 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:29	

LABORATORY CONTROL SAMPLE: 3550020

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 3550021

Parameter	Units	92587705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	37.0	3	25	

SAMPLE DUPLICATE: 3550022

Parameter	Units	92587091011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679091 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3553375 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679094
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587091022, 92587091023

METHOD BLANK: 3553381 Matrix: Water
Associated Lab Samples: 92587091022, 92587091023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 17:00	

LABORATORY CONTROL SAMPLE: 3553382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	365	91	80-120	

SAMPLE DUPLICATE: 3553383

Parameter	Units	92587090008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	772	800	4	25	

SAMPLE DUPLICATE: 3553384

Parameter	Units	92587090019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	48.0	58.0	19	25	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678235
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091001, 92587091002

METHOD BLANK: 3549593 Matrix: Water
Associated Lab Samples: 92587091001, 92587091002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549595 3549596

Parameter	Units	92585602018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597 3549598

Parameter	Units	92587089005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678236
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3549599 Matrix: Water
Associated Lab Samples: 92587091003, 92587091004, 92587091005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE: 3549600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549601 3549602

Parameter	Units	92587091003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549603 3549604

Parameter	Units	92587240001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	10	M1

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678537
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

METHOD BLANK: 3551059 Matrix: Water
Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, 92587091016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE: 3551060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551061 3551062

Parameter	Units	92585949014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	62.2	59.5	124	119	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.0	2.9	120	114	90-110	5	10	M1
Sulfate	mg/L	ND	50	50	62.0	59.6	124	119	90-110	4	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063 3551064

Parameter	Units	92587091007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	50	50	63.8	61.5	126	121	90-110	4	10	M1
Fluoride	mg/L	0.057J	2.5	2.5	3.1	3.0	123	119	90-110	3	10	M1
Sulfate	mg/L	9.3	50	50	71.8	69.6	125	121	90-110	3	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 678877
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091017

METHOD BLANK: 3552679 Matrix: Water
Associated Lab Samples: 92587091017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE: 3552680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552681 3552682

Parameter	Units	92587091017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552683 3552684

Parameter	Units	92587687006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.8	50.8	101	101	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

QC Batch: 679365
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3554816 Matrix: Water
Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE: 3554817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554818 3554819

Parameter	Units	92587091018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3554820 3554821

Parameter	Units	92587090007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091001	**YGWA-39**				
92587091002	**YGWA-40**				
92587091003	**YGWA-47**				
92587091004	**GWA-2**				
92587091006	**YGWA-1I**				
92587091007	**YGWA-1D**				
92587091008	**YGWA-2I**				
92587091009	**YGWA-3I**				
92587091010	**YGWA-3D**				
92587091013	**YGWA-17S**				
92587091014	**YGWA-18S**				
92587091015	**YGWA-18I**				
92587091016	**YGWA-20S**				
92587091017	**YGWA-21I**				
92587091018	**YGWA-5I**				
92587091020	**YGWA-14S**				
92587091022	**YGWA-30I**				
92587091023	**YGWA-4I**				
92587091024	**YGWA-5D**				
92587091001	**YGWA-39**	EPA 3010A	680120	EPA 6010D	680402
92587091002	**YGWA-40**	EPA 3010A	680120	EPA 6010D	680402
92587091003	**YGWA-47**	EPA 3010A	680120	EPA 6010D	680402
92587091004	**GWA-2**	EPA 3010A	680120	EPA 6010D	680402
92587091005	**UP-DUP-1**	EPA 3010A	680120	EPA 6010D	680402
92587091006	**YGWA-1I**	EPA 3010A	680120	EPA 6010D	680402
92587091007	**YGWA-1D**	EPA 3010A	680120	EPA 6010D	680402
92587091008	**YGWA-2I**	EPA 3010A	680120	EPA 6010D	680402
92587091009	**YGWA-3I**	EPA 3010A	680226	EPA 6010D	680419
92587091010	**YGWA-3D**	EPA 3010A	680226	EPA 6010D	680419
92587091011	**UP-EB-1**	EPA 3010A	680226	EPA 6010D	680419
92587091012	**UP-FB-1**	EPA 3010A	680226	EPA 6010D	680419
92587091013	**YGWA-17S**	EPA 3010A	680226	EPA 6010D	680419
92587091014	**YGWA-18S**	EPA 3010A	680226	EPA 6010D	680419
92587091015	**YGWA-18I**	EPA 3010A	680226	EPA 6010D	680419
92587091016	**YGWA-20S**	EPA 3010A	680226	EPA 6010D	680419
92587091017	**YGWA-21I**	EPA 3010A	680226	EPA 6010D	680419
92587091018	**YGWA-5I**	EPA 3010A	680226	EPA 6010D	680419
92587091019	**UP-DUP-3**	EPA 3010A	680226	EPA 6010D	680419
92587091020	**YGWA-14S**	EPA 3010A	680226	EPA 6010D	680419
92587091021	**UP-DUP-2**	EPA 3010A	680226	EPA 6010D	680419
92587091022	**YGWA-30I**	EPA 3010A	680226	EPA 6010D	680419
92587091023	**YGWA-4I**	EPA 3010A	680226	EPA 6010D	680419
92587091024	**YGWA-5D**	EPA 3010A	680226	EPA 6010D	680419
92587091025	**UP-EB-2**	EPA 3010A	680226	EPA 6010D	680419
92587091026	**UP-FB-2**	EPA 3010A	680226	EPA 6010D	680419
92587091001	**YGWA-39**	EPA 3005A	680115	EPA 6020B	680441
92587091002	**YGWA-40**	EPA 3005A	680115	EPA 6020B	680441

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091003	YGWA-47	EPA 3005A	680115	EPA 6020B	680441
92587091004	GWA-2	EPA 3005A	680115	EPA 6020B	680441
92587091005	UP-DUP-1	EPA 3005A	680115	EPA 6020B	680441
92587091006	YGWA-1I	EPA 3005A	680115	EPA 6020B	680441
92587091007	YGWA-1D	EPA 3005A	680115	EPA 6020B	680441
92587091008	YGWA-2I	EPA 3005A	680115	EPA 6020B	680441
92587091009	YGWA-3I	EPA 3005A	680225	EPA 6020B	680450
92587091010	YGWA-3D	EPA 3005A	680225	EPA 6020B	680450
92587091011	UP-EB-1	EPA 3005A	680225	EPA 6020B	680450
92587091012	UP-FB-1	EPA 3005A	680225	EPA 6020B	680450
92587091013	YGWA-17S	EPA 3005A	680225	EPA 6020B	680450
92587091014	YGWA-18S	EPA 3005A	680225	EPA 6020B	680450
92587091015	YGWA-18I	EPA 3005A	680225	EPA 6020B	680450
92587091016	YGWA-20S	EPA 3005A	680225	EPA 6020B	680450
92587091017	YGWA-21I	EPA 3005A	680225	EPA 6020B	680450
92587091018	YGWA-5I	EPA 3005A	680225	EPA 6020B	680450
92587091019	UP-DUP-3	EPA 3005A	680225	EPA 6020B	680450
92587091020	YGWA-14S	EPA 3005A	680225	EPA 6020B	680450
92587091021	UP-DUP-2	EPA 3005A	680225	EPA 6020B	680450
92587091022	YGWA-30I	EPA 3005A	680225	EPA 6020B	680450
92587091023	YGWA-4I	EPA 3005A	680225	EPA 6020B	680450
92587091024	YGWA-5D	EPA 3005A	680225	EPA 6020B	680450
92587091025	UP-EB-2	EPA 3005A	680225	EPA 6020B	680450
92587091026	UP-FB-2	EPA 3005A	680225	EPA 6020B	680450
92587091001	YGWA-39	EPA 7470A	678406	EPA 7470A	678665
92587091002	YGWA-40	EPA 7470A	678406	EPA 7470A	678665
92587091003	YGWA-47	EPA 7470A	678406	EPA 7470A	678665
92587091004	GWA-2	EPA 7470A	678406	EPA 7470A	678665
92587091005	UP-DUP-1	EPA 7470A	678406	EPA 7470A	678665
92587091006	YGWA-1I	EPA 7470A	678406	EPA 7470A	678665
92587091007	YGWA-1D	EPA 7470A	678406	EPA 7470A	678665
92587091008	YGWA-2I	EPA 7470A	678406	EPA 7470A	678665
92587091009	YGWA-3I	EPA 7470A	678756	EPA 7470A	679374
92587091010	YGWA-3D	EPA 7470A	678756	EPA 7470A	679374
92587091011	UP-EB-1	EPA 7470A	678756	EPA 7470A	679374
92587091012	UP-FB-1	EPA 7470A	678756	EPA 7470A	679374
92587091013	YGWA-17S	EPA 7470A	678756	EPA 7470A	679374
92587091014	YGWA-18S	EPA 7470A	678756	EPA 7470A	679374
92587091015	YGWA-18I	EPA 7470A	678756	EPA 7470A	679374
92587091016	YGWA-20S	EPA 7470A	678756	EPA 7470A	679374
92587091017	YGWA-21I	EPA 7470A	678756	EPA 7470A	679374
92587091018	YGWA-5I	EPA 7470A	678756	EPA 7470A	679374
92587091019	UP-DUP-3	EPA 7470A	678756	EPA 7470A	679374
92587091020	YGWA-14S	EPA 7470A	679675	EPA 7470A	679921
92587091021	UP-DUP-2	EPA 7470A	679675	EPA 7470A	679921
92587091022	YGWA-30I	EPA 7470A	679675	EPA 7470A	679921
92587091023	YGWA-4I	EPA 7470A	679675	EPA 7470A	679921

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091024	**YGWA-5D**	EPA 7470A	679675	EPA 7470A	679921
92587091025	**UP-EB-2**	EPA 7470A	679675	EPA 7470A	679921
92587091026	**UP-FB-2**	EPA 7470A	679675	EPA 7470A	679921
92587091001	**YGWA-39**	SM 2540C-2015	678110		
92587091002	**YGWA-40**	SM 2540C-2015	678110		
92587091003	**YGWA-47**	SM 2540C-2015	678369		
92587091004	**GWA-2**	SM 2540C-2015	678369		
92587091005	**UP-DUP-1**	SM 2540C-2015	678369		
92587091006	**YGWA-1I**	SM 2540C-2015	678370		
92587091007	**YGWA-1D**	SM 2540C-2015	678370		
92587091008	**YGWA-2I**	SM 2540C-2015	678370		
92587091009	**YGWA-3I**	SM 2540C-2015	678370		
92587091010	**YGWA-3D**	SM 2540C-2015	678370		
92587091011	**UP-EB-1**	SM 2540C-2015	678370		
92587091012	**UP-FB-1**	SM 2540C-2015	678370		
92587091013	**YGWA-17S**	SM 2540C-2015	678370		
92587091014	**YGWA-18S**	SM 2540C-2015	678370		
92587091015	**YGWA-18I**	SM 2540C-2015	678370		
92587091016	**YGWA-20S**	SM 2540C-2015	678370		
92587091017	**YGWA-21I**	SM 2540C-2015	678370		
92587091018	**YGWA-5I**	SM 2540C-2015	679091		
92587091019	**UP-DUP-3**	SM 2540C-2015	679091		
92587091020	**YGWA-14S**	SM 2540C-2015	679091		
92587091021	**UP-DUP-2**	SM 2540C-2015	679091		
92587091022	**YGWA-30I**	SM 2540C-2015	679094		
92587091023	**YGWA-4I**	SM 2540C-2015	679094		
92587091024	**YGWA-5D**	SM 2540C-2015	679091		
92587091025	**UP-EB-2**	SM 2540C-2015	679091		
92587091026	**UP-FB-2**	SM 2540C-2015	679091		
92587091001	**YGWA-39**	EPA 300.0 Rev 2.1 1993	678235		
92587091002	**YGWA-40**	EPA 300.0 Rev 2.1 1993	678235		
92587091003	**YGWA-47**	EPA 300.0 Rev 2.1 1993	678236		
92587091004	**GWA-2**	EPA 300.0 Rev 2.1 1993	678236		
92587091005	**UP-DUP-1**	EPA 300.0 Rev 2.1 1993	678236		
92587091006	**YGWA-1I**	EPA 300.0 Rev 2.1 1993	678537		
92587091007	**YGWA-1D**	EPA 300.0 Rev 2.1 1993	678537		
92587091008	**YGWA-2I**	EPA 300.0 Rev 2.1 1993	678537		
92587091009	**YGWA-3I**	EPA 300.0 Rev 2.1 1993	678537		
92587091010	**YGWA-3D**	EPA 300.0 Rev 2.1 1993	678537		
92587091011	**UP-EB-1**	EPA 300.0 Rev 2.1 1993	678537		
92587091012	**UP-FB-1**	EPA 300.0 Rev 2.1 1993	678537		
92587091013	**YGWA-17S**	EPA 300.0 Rev 2.1 1993	678537		
92587091014	**YGWA-18S**	EPA 300.0 Rev 2.1 1993	678537		
92587091015	**YGWA-18I**	EPA 300.0 Rev 2.1 1993	678537		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES POOLED UPGRADIENT
Pace Project No.: 92587091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587091016	**YGWA-20S**	EPA 300.0 Rev 2.1 1993	678537		
92587091017	**YGWA-21I**	EPA 300.0 Rev 2.1 1993	678877		
92587091018	**YGWA-5I**	EPA 300.0 Rev 2.1 1993	679365		
92587091019	**UP-DUP-3**	EPA 300.0 Rev 2.1 1993	679365		
92587091020	**YGWA-14S**	EPA 300.0 Rev 2.1 1993	679365		
92587091021	**UP-DUP-2**	EPA 300.0 Rev 2.1 1993	679365		
92587091022	**YGWA-30I**	EPA 300.0 Rev 2.1 1993	679365		
92587091023	**YGWA-4I**	EPA 300.0 Rev 2.1 1993	679365		
92587091024	**YGWA-5D**	EPA 300.0 Rev 2.1 1993	679365		
92587091025	**UP-EB-2**	EPA 300.0 Rev 2.1 1993	679365		
92587091026	**UP-FB-2**	EPA 300.0 Rev 2.1 1993	679365		

Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92587091

92587091

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/22

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 **Correction Factor:** Add/Subtract (°C) +0.2

Cooler Temp Corrected (°C): 2.5

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

Project #

WO# : 92587091

PM: NMG Due Date: 02/23/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2					
2		1	1			1																		2					
3		1	1			1																		2					
4		1	1			1																		2					
5		1	1			1																		2					
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WT	G	2/8/22	1455	–	–		5	2	3							X	X	X	X			pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	–	–		5	2	3							X	X	X	X			pH: 5.26
3	~~YGWA-1I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
4	~~YGWA-1D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
5	~~YGWA-2I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
6	~~YGWA-3I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
9	~~UP-DUP-2~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
10	~~YGWA-30I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
11	~~UP-EB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			pH:
12	~~UP-FB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kurt Lapszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of

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Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App IV (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3							X	X	X	X			pH: 5.70
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X	X		pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X	X		pH:
4	~~YGWA-4I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X				pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~							X	X	X	X			pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	~~YGWA-1I~~	WT	G						5	2		3						X	X	X	X			pH:
2	GWA-2	WT	G		1045	02-08	1150		5	2		3						X	X	X	X	X		pH: 5.83
3	UP-DUP-1	WT	G	02-08		–	–		5	2		3						X	X	X	X	X		pH:
4	~~YGWA-1I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		5	2		3						X	X	X	·			pH:
6	~~UP-DUP-3~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
9	UGWA-18S	WT	G			–	–		5	2		3						X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		5	2		3						X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		5	2		3						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840		2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: DATE Signed: 02-09-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Georgia Power Co. – Plant Yates

Data Review Report

Metals and General Chemistry Analyses

SDG #92587091

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia

Report #44872R
Review Level: Tier II
Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587091 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-39	92587091001	Water	2/8/2022			X	X
YGWA-40	92587091002	Water	2/8/2022			X	X
YGWA-47	92587091003	Water	2/8/2022			X	X
GWA-2	92587091004	Water	2/8/2022			X	X
UP-DUP-1	92587091005	Water	2/8/2022	GWA-2		X	X
YGWA-1I	92587091006	Water	2/9/2022			X	X
YGWA-1D	92587091007	Water	2/9/2022			X	X
YGWA-2I	92587091008	Water	2/9/2022			X	X
YGWA-3I	92587091009	Water	2/9/2022			X	X
YGWA-3D	92587091010	Water	2/9/2022			X	X
UP-EB-1	92587091011	Water	2/9/2022			X	X
UP-FB-1	92587091012	Water	2/9/2022			X	X
YGWA-17S	92587091013	Water	2/9/2022			X	X
YGWA-18S	92587091014	Water	2/9/2022			X	X
YGWA-18I	92587091015	Water	2/9/2022			X	X
YGWA-20S	92587091016	Water	2/9/2022			X	X
YGWA-21I	92587091017	Water	2/9/2022			X	X
YGWA-5I	92587091018	Water	2/10/2022			X	X
UP-DUP-3	92587091019	Water	2/10/2022	YGWA-5I		X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587091020	Water	2/10/2022			X	X
UP-DUP-2	92587091021	Water	2/10/2022	YGWA-14S		X	X
YGWA-30I	92587091022	Water	2/11/2022			X	X
YGWA-4I	92587091023	Water	2/11/2022			X	X
YGWA-5D	92587091024	Water	2/10/2022			X	X
UP-EB-2	92587091025	Water	2/10/2022			X	X
UP-FB-2	92587091026	Water	2/10/2022			X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, and 7470A; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YGWA-39 YGWA-40 YGWA-47 GWA-2 UP-DUP-1 YGWA-1I YGWA-1I YGWA-2I	Arsenic (EB, FB)	Detected sample results <RL and <BAL	“UB” at the RL

Sample Locations	Analytes	Sample Result	Qualification
YGWA-3I YGWA-3D YGWA-17S YGWA-18S YGWA-18I YGWA-20S YGWA-21I YGWA-5I UP-DUP-3 YGWA-14S UP-DUP-2 YGWA-30I YGWA-4I YGWA-5D	Arsenic (EB, FB, MB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-18S	Chromium (MB)		

Notes:
EB = Equipment blank
FB = Field blank
MB = Method blank
RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YGWA-3D in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWA-3I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-14S in association with SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Calcium	25.6	25.6	0.0%
	Barium	0.037	0.034	8.5%
	Cobalt	0.072	0.055	26.8%
	Copper	0.0012 J	0.0012 J	AC
	Lithium	0.0031 J	0.0027 J	
	Nickel	0.017	0.014	
	Zinc	0.014	0.012	
YGWA-5I / UP-DUP-3	Calcium	2.5	2.6	AC
	Barium	0.020	0.020	
	Lithium	0.0036 J	0.0037 J	
YGWA-14S / UP-DUP-2	Calcium	1.3	1.2	AC
	Barium	0.0088	0.0084	
	Beryllium	0.00025 J	0.00022 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Boron	0.020 J	0.018 J	
	Selenium	0.0014 J	0.0050 U	

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YGWA-21I and YGWA-5I in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-47 and YGWA-1D in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-47	Sulfate	73%	AC (75%)
YGWA-1D	Chloride	> 125%	AC (121%)

Note:
AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using samples YGWA-47 and UP-EB-1 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	TDS	283	271	4.4%
	Chloride	5.7	5.7	0.0%
	Sulfate	107	102	4.8%
	Fluoride	0.064 J	0.059 J	AC
YGWA-5I – UP-DUP-3	TDS	77.0	67.0	13.9%
	Chloride	4.4	4.4	AC
	Sulfate	2.4	2.4	
YGWA-14S / UP-DUP-2	TDS	56.0	53.0	5.5%
	Sulfate	6.2	6.1	1.6%
	Chloride	4.7	4.7	AC

Note:
AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: March 21, 2022

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-39	WT	G	2/8/22	1455	–	–		5	2	3							X	X	X	X		pH: 5.78
2	YGWA-40	WT	G	2/8/22	1522	–	–		5	2	3							X	X	X	X		pH: 5.26
3	~~YGWA-1I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
4	~~YGWA-1D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
5	~~YGWA-2I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
6	~~YGWA-3I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
7	~~YGWA-3D~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
8	~~YGWA-14S~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
9	~~UP-DUP-2~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
10	~~YGWA-30I~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		pH:
11	~~UP-EB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		
12	~~UP-FB-1~~	~~WT~~	~~G~~			–	–		5	2	3							X	X	X	X		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kurt Lapszynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	
Phone:	Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App IV (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	2/8/22	1140	–	–		5	2		3						X	X	X	X		X	pH: 5.70
2	~~GWA-2~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
3	~~UP-DUP-1~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X	X		pH:
4	~~YGWA-4I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
5	~~YGWA-5I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
6	~~UP-DUP-3~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
7	~~YGWA-5D~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
8	~~YGWA-17S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
9	~~UGWA-18S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
10	~~YGWA-18I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
11	~~YGWA-20S~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:
12	~~YGWA-21I~~	WT	G			–	–		~~5~~	~~2~~		~~3~~						X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/22	0825	/Arcadis	2/9/22	0825	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/22	1018		2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:		Purchase Order #:		Pace Quote:	
Phone:	Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	~~YGWA-1I~~	WT	G	[illegible]	[illegible]	[illegible]	[illegible]		5	2		3						X	X	X	X				pH:
2	GWA-2	WT	G	[illegible]	1045	02-08	1150		5	2		3						X	X	X	X	X			pH: 5.83
3	UP-DUP-1	WT	G	02-08	[illegible]	–	–		5	2		3						X	X	X	X	X			pH: [illegible]
4	~~YGWA-1I~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
5	~~YGWA-5I~~	WT	G			–	–		5	2		3						X	X	X					pH:
6	~~UP-DUP-3~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
7	~~YGWA-5D~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
8	~~YGWA-17S~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
9	UGWA-18S	WT	G			–	–		5	2		3						X	X	X	X				pH:
10	YGWA-18I	WT	G			–	–		5	2		3						X	X	X	X				pH:
11	~~YGWA-20S~~	WT	G			–	–		5	2		3						X	X	X	X				pH:
12	~~YGWA-21I~~	WT	G			–	–		5	2		3						X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	2/9/22	0840	[signature]	2/9/22	0840	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/22	1018	[signature]	2/9	1018	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 02-09-22

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587091	YGWA-39	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-40	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-47	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Sulfate	50.9	mgL	J	MS %R < LCL
	GWA-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Chloride	1.0	mgL	J	MS %R > UCL
	YGWA-2I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-17S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-18S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Chromium	0.0050	mgL	UB	Blank contamination
	YGWA-18I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-20S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-21I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-3	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-14S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-30I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-4I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination

Abbreviations:
%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
UCL = upper control limit

Qualifiers:
J = estimated result
UB = not detected due to blank contamination

Appendix B

Field Sampling Reports

August 2021 Event

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	Gypsum Landfill
Date:	8/16/2021
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	8/16/2021	12:15:00	26.66	38.35	--
GWC-5R	8/16/2021	12:27:00	27.35	42.77	--
GWA-2	8/16/2021	12:34:00	35.73	52.13	--
GWC-6R	8/16/2021	12:43:00	33.59	51.87	--
GWC-1R	8/16/2021	12:54:00	21.26	36.41	--
GWC-4R	8/16/2021	12:59:00	15.46	30.20	--
GWC-2R	8/16/2021	13:05:00	27.70	44.00	--

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Jake Swanson / Ash Willis

Instrument Calibration

Date: 8/18/2021 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 519163 (Ash Willis)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	235.4	235.4	235.4	235.4

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

*half day of field work

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Jake Swanson / Ash Willis

Instrument Calibration

Date: 8/20/21 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 509072 (Ash Willis)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 8/20/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 509072 (Ash Willis)
DO	% saturation	100	--	100	100
Conductivity	us/cm	8000	--	8000	8000
pH	S.U.	4.00	--	4.00	4.00
pH	S.U.	7.00	--	7.00	7.00
pH	S.U.	10.00	--	10.00	10.00
ORP	mV	232.0	--	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nphelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

-- calibration not conducted

Groundwater Sampling Form

Project Number	30052922	**Well ID**	GWA-2			**Date**	08/20/2021
Project Location	Gypsum Landfill		**Weather(°F)**	It is Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	35.74	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	16.39	**Gallons in Well**	2.66
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**	0.58	**Sample ID**	GWA-2	**Sampled by**	Jake Swanson
Purge Start	10:54	**Gallons Purged**	1.53	**Replicate/ Code No.**	Dup-1 and G-EB-1	**Color**	Clear
Purge End	11:52						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:54:01	00:00	100	35.74	6.00	457.65	11.04	7.89	21.9	113.52
10:59:01	05:00	100	35.96	5.99	438.01	4.75	6.35	22.3	122.75
11:04:01	10:00	100	36.16	5.99	427.30	6.24	4.55	22.4	132.24
11:09:01	15:00	100	36.21	5.98	424.13	7.65	4.16	22.7	143.10
11:14:01	20:00	100	36.21	5.98	421.49	3.79	3.64	22.8	151.83
11:19:01	25:00	100	36.21	5.96	418.08	8.07	3.38	23.0	159.28
11:24:01	30:00	100	36.21	5.94	416.63	9.96	3.08	23.3	164.77
11:29:01	35:00	100	36.21	5.92	415.66	9.63	2.82	23.3	168.77
11:34:01	40:00	100	36.21	5.90	415.73	5.60	2.50	23.3	171.89
11:39:01	45:00	100	36.21	5.90	413.73	12.10	2.33	23.4	173.87
11:44:01	50:00	100	36.21	5.88	413.54	11.91	2.18	23.6	174.95
11:47:01	53:00	100	36.21	5.87	411.89	15.44	2.09	23.5	175.52
11:52:01	58:00	100	36.21	5.86	411.76	18.15	1.99	23.6	175.28

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	3	None
TDS	500 mL Plastic	3	None
RAD Chem	1L Plastic	6	HNO3
Metals	250 mL Plastic	3	HNO3

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Comments: Lamotte turbidity readings (in minutes)
Time=NTU
10:54=9.34
10:59=6.13
11:04=5.87
11:09=5.43
11:14=4.06
11:19=3.46
11:24=3.17
11:29=2.89
11:34=2.69
11:39=2.52
11:47=2.43
11:52=2.38

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	GWC-1R			**Date**	08/18/2021
Project Location	Gypsum Landfill		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.11	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.29	**Total Depth (ft-bmp)**	36.41	**Water Column(ft)**	15.12	**Gallons in Well**	2.46
MP Elevation	773.27	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:25	**Well Volumes Purged**	0.44	**Sample ID**	GWC-1R	**Sampled by**	Jake Swanson
Purge Start	11:38	**Gallons Purged**	1.09	**Replicate/ Code No.**	G-FB-1	**Color**	Clear
Purge End	12:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:38:03	00:00	100	21.28	5.14	1415.34	3.91	7.05	22.3	192.15
11:43:03	05:00	100	22	5.09	1412.83	4.98	6.74	22.5	202.09
11:48:03	10:00	100	22.07	5.07	1415.91	2.76	6.79	22.0	208.38
11:49:12	11:09	100	22.07	5.06	1399.45	2.56	6.75	21.8	209.45
11:54:12	16:09	100	22.1	5.10	1410.54	2.46	6.78	22.7	211.92
11:59:12	21:09	100	22.11	5.12	1417.32	3.40	6.48	24.0	215.01
12:04:12	26:09	100	22.12	5.12	1426.15	2.74	6.38	24.6	217.81
12:09:12	31:09	100	22.13	5.09	1432.76	2.57	6.39	24.1	220.58
12:14:12	36:09	100	22.14	5.10	1448.29	1.63	6.45	23.3	223.58
12:19:12	41:09	100	22.14	5.08	1443.01	1.93	6.40	24.6	224.32

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride	250 mL Plastic	1	None

Comments:

Lamotte turbidity readings (in minutes)
Time=NTU
11:43= 5.34
11:49=2.77
11:54= 2.34
11:59=4.56
12:04=6.22
12:09=3.78
12:14=3.23
12:19=3.02

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	GWC-2R			**Date**	08/18/2021
Project Location	Gypsum Landfill			**Weather(°F)**	86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.		
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	33.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.74	**Total Depth (ft-bmp)**	44	**Water Column(ft)**	16.26	**Gallons in Well**	2.64
MP Elevation	769.76	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:30	**Well Volumes Purged**	0.20	**Sample ID**	GWC-2R	**Sampled by**	Jake Swanson
Purge Start	15:59	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:59:25	00:00	100	27.74	5.26	664.66	6.35	6.03	24.9	209.00
16:04:25	05:00	100	27.89	5.09	666.22	2.28	5.12	23.4	218.44
16:09:25	10:00	100	27.93	5.00	673.65	1.88	4.96	22.7	226.89
16:14:25	15:00	100	27.96	4.95	680.77	2.63	4.90	22.5	229.72
16:19:25	20:00	100	27.96	4.96	681.16	2.23	4.88	22.3	229.52

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride	250 mL Plastic	1	None

Comments:

Lamotte turbidity readings (in minutes)
Time=NTU
16:04= 2.87
16:09=2.70
16:14= 2.90
16:19=2.88

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	GWC-3R			**Date**	08/18/2021
Project Location	Gypsum Landfill		**Weather(°F)**	Sunny			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	28.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26.71	**Total Depth (ft-bmp)**	38.35	**Water Column(ft)**	11.64	**Gallons in Well**	1.89
MP Elevation	775.25	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:35	**Well Volumes Purged**	1.19	**Sample ID**	GWC-3R	**Sampled by**	Ash Willis
Purge Start	15:03	**Gallons Purged**	2.25	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:03:37	00:00	100	26.8	4.57	473.68	120.70	6.08	36.5	87.65
15:08:37	05:00	100	26.8	4.58	477.59	133.14	5.65	39.3	96.23
15:13:37	10:00	100	26.8	4.66	479.89	188.23	5.55	41.2	103.18
15:18:37	15:00	100	26.78	4.53	487.52	199.89	5.57	42.6	105.85
15:23:37	20:00	100	26.78	4.49	483.54	225.84	5.46	43.5	110.51
15:28:37	25:00	100	26.78	4.52	483.30	288.37	5.34	44.4	111.88
15:33:37	30:00	100	26.78	4.52	479.07	297.99	5.36	45.2	114.55
15:38:37	35:00	100	26.78	4.51	475.19	271.32	5.42	44.9	118.48
15:43:37	40:00	100	26.81	4.54	463.96	335.74	5.35	44.9	124.16
15:48:37	45:00	100	26.83	4.57	451.02	363.47	5.53	41.3	113.47
15:53:37	50:00	100	26.89	4.65	436.35	393.55	5.68	37.8	109.34
15:58:37	55:00	100	26.94	4.70	424.95	454.81	6.02	35.1	110.11
16:03:37	00:00	100	26.94	4.69	396.19	465.25	6.42	32.1	111.11
16:08:37	05:00	100	26.94	4.70	382.09	486.93	6.24	32.8	112.29
16:13:37	10:00	100	26.94	4.71	359.11	527.40	5.90	34.4	113.63
16:18:37	15:00	100	26.94	4.72	345.30	579.87	6.33	35.0	113.25
16:23:37	20:00	100	26.94	4.73	338.03	633.41	6.04	35.2	113.42
16:28:37	25:00	100	26.94	4.73	319.33	684.05	6.11	35.2	113.16

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	500 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Comments: LaMotte turbidity meter readings (Time: NTU) 1505: 12.98; 1510: 11.18; 1515: 10.92; 1520: 8.41; 1525: 8.63; 1530: 7.04; 1535: 7.91; 1540: 6.51; 1545: 6.38; 1550: 6.29; 1555: 5.77; 1600: 5.19; 1605: 3.85; 1610: 3.22; 1615: 2.57; 1620: 2.58; 1625: 2.69; 1630: 2.38

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	GWC-4R			**Date**	08/18/2021
Project Location	Gypsum Landfill		**Weather(°F)**	86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.9	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.21	**Total Depth (ft-bmp)**	30.2	**Water Column(ft)**	14.99	**Gallons in Well**	2.44
MP Elevation	757.48	**Pump Intake (ft-bmp)**	25	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:25	**Well Volumes Purged**	0.38	**Sample ID**	GWC-4R	**Sampled by**	Jake Swanson
Purge Start	13:29	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:29:59	00:00	100	15.21	5.48	1327.71	4.54	2.01	25.7	206.39
13:34:59	05:00	100	15.28	5.48	1349.46	2.80	1.37	28.0	195.31
13:39:59	10:00	100	15.39	5.47	1331.04	4.52	2.20	26.7	190.21
13:44:59	15:00	100	15.61	5.51	1336.00	8.35	1.33	26.3	189.22
13:49:59	20:00	100	15.56	5.48	1287.58	13.35	1.37	27.1	192.02
13:54:59	25:00	100	15.52	5.46	1267.31	22.35	1.53	27.5	194.48
13:59:59	30:00	100	15.54	5.46	1237.31	34.15	1.57	27.8	195.49
14:04:59	35:00	100	15.54	5.46	1209.64	51.64	1.48	28.2	196.76

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride	250 mL Plastic	1	None

Comments:

Lamotte turbidity readings
Time=NTU
13:34= 4.36
13:39=4.12
13:44= 3.77
13:49=3.17
13:54=3.12
13:59=3.10
14:04=3.02

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	GWC-5R			**Date**	08/18/2021
Project Location	Gypsum Landfill			**Weather(°F)**	86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.		
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	32.47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.4	**Total Depth (ft-bmp)**	42.77	**Water Column(ft)**	15.37	**Gallons in Well**	2.5
MP Elevation	782.45	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:54	**Well Volumes Purged**	0.70	**Sample ID**	GWC-5R	**Sampled by**	Ash Willis
Purge Start	10:24	**Gallons Purged**	1.75	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:53						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:24:48	00:00	100	27.36	5.93	1793.50	45.49	8.84	24.9	130.46
10:29:48	05:00	100	28	5.01	1953.70	28.57	8.50	24.1	135.43
10:34:48	10:00	75	27.97	5.34	1965.41	25.79	8.25	23.9	141.15
10:39:48	15:00	75	27.97	5.73	1941.21	22.69	8.18	23.3	144.20
10:44:48	20:00	75	27.96	5.53	1916.98	30.74	8.10	23.0	142.53
10:49:48	25:00	75	27.97	6.08	1962.11	36.22	7.92	24.5	144.73
10:54:48	30:00	75	27.97	5.53	1930.70	57.20	8.01	24.9	142.30
10:59:48	35:00	75	27.97	5.79	1930.60	64.02	7.93	25.1	142.38
11:04:48	40:00	75	27.97	4.98	1910.18	13.06	8.63	24.5	125.04
11:09:48	45:00	75	27.97	4.75	1913.53	8.65	8.70	23.9	127.98
11:14:48	50:00	75	27.98	4.72	1915.71	6.65	8.65	23.7	131.76
11:19:48	55:00	75	27.97	4.72	1905.97	5.13	8.56	23.6	133.91
11:24:48	00:00	75	27.97	4.72	1894.59	6.33	8.60	23.3	136.43
11:29:48	05:00	75	27.97	4.73	1887.20	7.65	8.47	24.0	136.58
11:34:48	10:00	75	27.97	4.73	1881.56	10.14	8.40	24.0	138.41
11:39:48	15:00	75	27.97	4.75	1883.54	14.61	8.42	23.5	138.21
11:44:48	20:00	75	27.97	4.76	1890.15	24.21	8.15	23.5	139.60
11:49:48	25:00	75	27.97	4.76	1898.43	31.72	8.24	23.3	140.09

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Comments: Fulcrum crashed during save. Confirmation turbidity readings were between 3.6 and 4.7

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:		Well Locked at Arrival:	
Condition of Well:		Well Locked at Departure:	
Well Completion:	NA	Key Number To Well:	NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	GWC-6R			**Date**	08/18/2021
Project Location	Gypsum Landfill		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	41.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.78	**Total Depth (ft-bmp)**	51.87	**Water Column(ft)**	18.09	**Gallons in Well**	2.94
MP Elevation	788.98	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:45	**Well Volumes Purged**	0.32	**Sample ID**	GWC-6R	**Sampled by**	Jake Swanson
Purge Start	09:00	**Gallons Purged**	0.94	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:00:29	00:00	100	33.78	6.40	1152.88	1.30	7.92	21.9	99.09
09:05:29	05:00	100	34	6.02	1019.02	1.26	6.59	21.5	123.60
09:10:29	10:00	100	34	5.90	952.00	1.23	5.59	21.3	136.32
09:11:07	10:38	100	34	5.89	951.00	1.31	5.53	21.4	137.66
09:16:07	15:38	100	34	5.84	927.33	1.44	5.09	21.6	144.07
09:21:07	20:38	100	34	5.85	915.68	1.62	4.97	21.8	149.66
09:26:07	25:38	100	34	5.84	901.27	1.57	4.78	21.9	154.37
09:31:07	30:38	100	34	5.83	891.00	1.56	4.63	21.6	159.50
09:36:07	35:38	100	34	5.82	886.90	1.93	4.54	21.3	164.69

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Chloride	250 mL Plastic	1	None

Comments:

Lamotte turbidity readings (in minutes)
Time=NTU
9:05= 2.25
9:11=2.41
9:16= 2.33
9:21=1.89
9:26=2.01
9:31=2.23
9:36=2.89

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute

mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-5R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:27:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad. Well I'd reads GWC-r5				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-2R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	13:05:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-4R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:59:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-1R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-6R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:43:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:34:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-3R
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	12:15:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☐	☑	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad. Well I'd reads GWC-R3 Well needs tow slip cap.				
8	Date by when corrective actions are needed:				

February 2022 Event

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	Gypsum Landfill
Date:	2/7/2022
Sampler:	Mark Chest
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWA-2	2/7/2022	11:05:00	36.39	52.13	--
GWC-6R	2/7/2022	11:16:00	34.08	51.87	--
GWC-1R	2/7/2022	11:19:00	21.24	36.41	--
GWC-4R	2/7/2022	11:23:00	15.09	30.20	--
GWC-2R	2/7/2022	11:31:00	27.93	44.00	--
GWC-3R	2/7/2022	11:36:00	27.20	38.35	--
GWC-5R	2/7/2022	11:38:00	27.92	42.77	--

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/8/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware & Kim Lapszynski)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	NA*	100
Conductivity	us/cm	1409	8000	1409	NA*	8000
pH	S.U.	4.00	4.00	4.00	NA*	4.00
pH	S.U.	7.00	7.08	7.06	NA*	7.00
pH	S.U.	10.00	10.01	9.99	NA*	10.00
ORP	mV	220.0	252.1	220.0	NA*	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	20.2	9.7	NA*	20.1
100	NTU	102	20	NA*	99.6
800	NTU	801	101	NA*	803
10 / <0.10	NTU	10.3	804	NA*	10.1

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	NA*	100	100
Conductivity	us/cm	1409	1413	NA*	1409	8000
pH	S.U.	4.00	4.00	NA*	4.00	4.00
pH	S.U.	7.00	7.06	NA*	7.00	7.00
pH	S.U.	10.00	10.08	NA*	10.00	10.00
ORP	mV	220.0	237.8	NA*	220.0	232.0

HACH/Geotech Standard	Units	HACH	HACH U89261X	Geotech V94550X (Kim Lapszynski)	HACH
20	NTU	--	19.7	**	--
100	NTU	--	100	**	--
800	NTU	--	794	**	--
10 / <0.10	NTU	10.2	9.88	**	10.1

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Equipment not available or broken

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/9/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100.3	100
Conductivity	us/cm	1409	1413	1409	1407	1409
pH	S.U.	4.00	4.01	4..00	3.97	4.00
pH	S.U.	7.00	7.12	7.06	7.00	7.02
pH	S.U.	10.00	10.16	10.00	9.99	10.08
ORP	mV	220.0	256.8	220.0	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	20.2	19.9
100	NTU	99.6	100.0	101	99.8
800	NTU	791	800.0	800	797
10 / <0.10	NTU	10.0	< 0.10	9.25	9.18

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	99.9	NA*
Conductivity	us/cm	1409	1413	1409	1411	NA*
pH	S.U.	4.00	--	4.00	4.02	NA*
pH	S.U.	7.00	7.00	7.02	7.01	NA*
pH	S.U.	10.00	--	10.08	9.92	NA*
ORP	mV	220.0	231	220.0	220.0	NA*

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.7	NA*
100	NTU	--	**	100	NA*
800	NTU	--	**	799	NA*
10 / <0.10	NTU	10.2	**	9.87	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

* Unable to Calibration due to long purge time at midday

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/10/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.06	7.06	7.02
pH	S.U.	10.00	10.12	10.12	10.08	10.08
ORP	mV	220.0	246.1	252.8	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	19.8	20.7
100	NTU	101	100.0	101	104
800	NTU	797	800.0	799	827
10 / <0.10	NTU	10.1	< 0.10	9.35	10

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	YSI 556 100686 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1406	1409	1409
pH	S.U.	4.00	--	7.00	4.00	4.00
pH	S.U.	7.00	7.00	4.00	7.02	7.02
pH	S.U.	10.00	--	9.99	10.04	10.08
ORP	mV	220.0	230	220	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	--	**	19.9	**
100	NTU	--	**	102	**
800	NTU	--	**	788	**
10 / <0.10	NTU	9.96	**	9.57	9.94

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not conducted

** Mid-day Calibration was conducted but data not recorded

February 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration

Date: 02/11/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100
Conductivity	us/cm	1409	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.06	7.02	7.02
pH	S.U.	10.00	10.16	10.12	10.05
ORP	mV	220.0	220.0	220.0	220.0

HACH/Geotech Standard	Units	Geotech V100820X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	20.0	20.0	19.8
100	NTU	100.0	104	99.6
800	NTU	800.0	793	788
10 / <0.10	NTU	< 0.10	9.47	10.2

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	NA*	100	NA*
Conductivity	us/cm	1409	NA*	1409	NA*
pH	S.U.	4.00	NA*	4.00	NA*
pH	S.U.	7.00	NA*	7.02	NA*
pH	S.U.	10.00	NA*	10.04	NA*
ORP	mV	220.0	NA*	220.0	NA*

HACH/Geotech Standard	Units	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	NA*	**	NA*
100	NTU	NA*	**	NA*
800	NTU	NA*	**	NA*
10 / <0.10	NTU	NA*	**	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

-- calibration not conducted

* Half day

** Mid-day Calibration was conducted but data not recorded

Groundwater Sampling Form

Updated : 2/9/2022 7:24:30 AM -05:00

Project Number	30053438	**Well ID**	GWA-2			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	38.8 degrees F and Clear. The wind is blowing N at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.42	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	15.71	**Gallons in Well**	2.55
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:45	**Well Volumes Purged**	0.26	**Sample ID**	GWA-2	**Sampled by**	Khalil Carson
Purge Start	10:14	**Gallons Purged**	0.66	**Replicate/ Code No.**	UP-DUP-1	**Color**	Clear
Purge End	10:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:14:00	00:00	100	36.42	5.84	450.71	7.44	1.28	15.0	181.10
10:19:00	05:00	100	37.25	5.80	427.58	5.06	1.18	15.1	184.46
10:24:00	09:56	100	37.4	5.80	420.36	2.75	1.04	15.2	184.80
10:29:00	14:56	100	37.52	5.82	417.21	1.67	0.93	15.4	179.34
10:34:00	19:56	100	37.45	5.83	415.26	0.95	0.95	14.5	178.52
10:39:00	24:56	100	37.45	5.83	414.33	0.79	0.97	14.5	174.43

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride,Fluoride,Sulfate	250 mL Plastic	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/16/2022 8:41:56 PM -05:00

Project Number	30053438	**Well ID**	GWC-5R			**Date**	02/09/2022
Project Location	Gypsum Landfill		**Weather(°F)**	57 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	32.47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.85	**Total Depth (ft-bmp)**	42.77	**Water Column(ft)**	14.92	**Gallons in Well**	2.42
MP Elevation	782.45	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:20	**Well Volumes Purged**	1.75	**Sample ID**	GWC-5R	**Sampled by**	Khalil Carson
Purge Start	13:04	**Gallons Purged**	4.23	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:50						

Time	Total Elapsed	Rate (mL/min)	Depth to Water (ft)	(standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox mV)
13:04:00	00:00	100	27.85	5.63	1724.49	32.61	9.27.	16.8	167.44
13:09:00	05:00	100	28.1	4.83	1834.37	13.80	7.67	18.2	179.15
13:14:00	10:00	100	28.1	4.74	1882.91	24.34	9.04	18.3	185.99
13:19:00	15:00	100	28.1	4.72	1895.57	23.02	13.3	18.3	190.54
13:24:00	20:00	100	28.1	4.70	1906.57	23.11	11.3	18.4	194.82
13:29:00	25:00	100	28.25	4.69	1905.95	28.39	9.83	18.4	197.96
13:34:00	30:00	100	28.15	4.70	1897.11	24.18	8.76	18.3	200.44
13:39:00	35:00	100	28.15	4.70	1887.55	19.20	9.17	18.4	202.40
13:44:00	40:00	100	28.15	4.71	1878.84	24.80	8.54	18.4	204.81
13:49:00	45:00	100	28.15	4.72	1869.85	27.36	8.58	18.4	206.52
13:54:00	50:00	100	28.15	4.73	1856.06	25.19	8.46	18.4	208.00
13:59:00	55:00	100	28.15	4.74	1841.97	40.26	7.51	18.2	209.62
14:04:00	00:00	80	28.15	4.75	1830.40	32.69	9.95	18.3	210.79
14:09:00	05:00	80	28.15	4.76	1823.35	8.00	10.2	18.7	210.86
14:14:00	10:00	80	28.15	4.76	1822.01	11.02	8.38	18.8	211.96
14:19:00	15:00	80	28.15	4.76	1826.22	23.66	9.73	18.9	213.29
14:24:00	20:00	80	28.15	4.76	1822.31	28.32	9.24	18.7	214.62
14:29:00	25:00	80	28.15	4.76	1816.47	13.64	9.33	18.8	215.49
14:34:00	30:00	80	28.15	4.76	1809.89	14.60	8.33	18.7	216.28
14:39:00	35:00	80	28.15	4.77	1805.33	7.94	7.37	18.9	217.04
14:44:00	40:00	80	28.15	4.77	1799.63	11.67	7.01	18.7	217.92
14:49:00	45:00	80	28.15	4.78	1794.33	17.04	7.93	18.8	218.41
14:54:00	50:00	80	28.15	4.78	1791.35	33.84	7.98	18.8	219.10
14:59:00	55:00	80	28.15	4.78	1783.11	22.85	7.94	18.6	219.99
15:04:00	00:00	80	28.15	4.78	1779.14	17.69	7.96	18.6	220.31

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

15:09:00	05:00	80	28.15	4.78	1775.06	12.27	7.33	18.6	220.82
15:14:00	10:00	80	28.15	4.78	1770.22	18.10	6.04	18.5	221.26
15:19:00	15:00	80	28.15	4.78	1765.55	9.66	6.89	18.1	222.07
15:24:00	20:00	80	28.15	4.78	1763.60	13.45	6.02	17.9	223.11
15:29:00	25:00	80	28.15	4.78	1765.14	18.87	5.79	18.1	223.63
15:34:00	30:00	80	28.15	4.79	1759.00	13.76	6.79	18.0	223.25
15:39:00	35:00	80	28.15	4.79	1756.40	15.96	6.71	18.0	223.55
15:44:00	40:00	80	28.15	4.80	1752.41	9.62	6.09	17.8	223.76
15:49:00	45:00	80	28.15	4.80	1747.87	11.70	5.75	17.7	224.60
15:54:00	50:00	80	28.15	4.81	1746.98	10.76	5.53	17.6	225.25
15:59:00	55:00	80	28.15	4.81	1740.95	12.75	5.93	17.4	225.69
16:04:00	00:00	80	28.15	4.81	1741.35	8.77	4.82	17.4	226.05
16:09:00	05:00	80	28.15	4.82	1738.72	8.91	6.09	17.3	226.12

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments:

Equipment blank 1645

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/16/2022 8:41:57 PM -05:00

Project Number	30053438	**Well ID**	GWC-6R			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	53 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	41.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.12	**Total Depth (ft-bmp)**	51.87	**Water Column(ft)**	17.75	**Gallons in Well**	2.88
MP Elevation	788.98	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:30	**Well Volumes Purged**	0.23	**Sample ID**	GWC-6R	**Sampled by**	Khalil Carson
Purge Start	11:56	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:56:00	00:00	100	34.12	5.87	710.80	0.00.	5.25	15.9	164.80
12:01:00	05:00	100	34.82	5.88	706.12	0.51	5.16	16.1	169.27
12:06:00	10:00	100	34.82	5.89	715.90	0.45	4.98	16.1	171.69
12:11:00	15:00	100	34.82	5.87	728.78	0.48	4.89	16.0	175.11
12:16:00	20:00	100	34.82	5.89	741.66	0.31	4.91	16.0	174.80
12:21:00	25:00	100	34.82	5.89	750.03	0.45	4.93	16.1	175.60

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Florine ,Sulfate	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/16/2022 8:41:58 PM -05:00

Project Number	30053438	**Well ID**	GWC-1R			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	53 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.11	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.2	**Total Depth (ft-bmp)**	36.41	**Water Column(ft)**	15.21	**Gallons in Well**	2.47
MP Elevation	773.27	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:50	**Well Volumes Purged**	0.27	**Sample ID**	GWC-1R	**Sampled by**	Khalil Carson
Purge Start	14:15	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:15:00	00:00	100	21.2	5.28	1364.55	8.91	7.00	17.0	237.79
14:20:00	05:00	100	21.86	5.11	1399.13	5.85	6.97	17.0	238.07
14:25:00	10:00	100	21.9	5.12	1433.21	4.25	7.08	16.8	235.04
14:30:00	15:00	100	21.9	5.13	1458.36	2.38	6.90	16.9	233.99
14:35:00	20:00	100	21.9	5.16	1466.67	2.01	6.80	16.9	233.02
14:40:00	25:00	100	21.9	5.16	1478.24	1.56	6.83	16.8	229.96

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Chloride,Fluoride,Sulfate	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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Updated : 2/16/2022 8:42:08 PM -05:00

Project Number	30053438	**Well ID**	GWC-3R			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	53 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	28.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.15	**Total Depth (ft-bmp)**	38.35	**Water Column(ft)**	11.2	**Gallons in Well**	1.82
MP Elevation	775.25	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	18:30	**Well Volumes Purged**	0.87	**Sample ID**	GWC-3R	**Sampled by**	Khalil Carson
Purge Start	17:26	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:26:00	00:00	100	27.15	6.56	330.80	0.81	9.14	16.7	170.54
17:31:00	05:00	100	27.78	4.64	441.64	8.99	6.70	17.6	202.45
17:36:00	10:00	100	27.78	4.71	380.49	15.41	6.79	17.5	207.05
17:41:00	15:00	100	27.78	4.80	344.57	16.54	6.90	17.5	207.08
17:46:00	20:00	100	27.78	4.85	338.01	19.02	6.94	17.5	207.67
17:51:00	25:00	100	27.78	4.90	318.25	9.03	7.00	17.5	207.54
17:56:00	30:00	100	27.9	4.94	309.12	8.63	7.05	17.4	207.36
18:01:00	35:00	100	27.9	4.97	303.89	7.87	7.05	17.5	207.27
18:06:00	40:00	100	27.9	5.00	292.04	7.85	7.09	17.4	207.11
18:11:00	45:00	100	27.94	5.02	288.40	5.06	7.11	17.4	207.76
18:16:00	50:00	100	27.94	5.04	282.34	4.66	7.14	17.4	207.90
18:21:00	55:00	100	27.94	5.04	280.16	4.56	7.14	17.4	208.96
18:26:00	00:00	100	27.94	5.10	277.36	2.14	7.10	17.1	207.64

Constituent Sampled	Container	Number	Preservative
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Fluoride ,Sulfate	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/16/2022 8:42:10 PM -05:00

Project Number	30053438	**Well ID**	GWC-4R			**Date**	02/08/2022
Project Location	Gypsum Landfill		**Weather(°F)**	53 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.9	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.08	**Total Depth (ft-bmp)**	30.2	**Water Column(ft)**	15.12	**Gallons in Well**	2.46
MP Elevation	757.48	**Pump Intake (ft-bmp)**	25	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:15	**Well Volumes Purged**	0.32	**Sample ID**	GWC-4R	**Sampled by**	Khalil Carson
Purge Start	15:42	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:42:00	00:00	100	15.12	5.88	1057.35	10.11	5.55	17.3	210.80
15:47:00	05:00	100	15.42	5.83	1054.81	0.00	5.31	17.1	237.73
15:52:00	10:00	100	15.42	5.86	1052.70	0.06	5.30	17.0	253.23
15:57:00	15:00	100	15.42	5.73	1156.81	2.58	2.37	17.3	249.38
16:02:00	20:00	100	15.42	5.71	1163.32	3.52	1.81	17.4	239.89
16:07:00	25:00	100	15.42	5.70	1150.25	2.74	1.81	17.1	234.41
16:12:00	30:00	100	15.42	5.67	1138.08	1.88	1.63	17.2	231.18

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,Fluoride,Sulfate	250 mL Plastic	1	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/16/2022 8:42:11 PM -05:00

Project Number	30053438	**Well ID**	GWC-2R			**Date**	02/09/2022
Project Location	Gypsum Landfill		**Weather(°F)**	57 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	33.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.9	**Total Depth (ft-bmp)**	44	**Water Column(ft)**	16.1	**Gallons in Well**	2.62
MP Elevation	769.76	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**	1.82	**Sample ID**	GWC-2R	**Sampled by**	Khalil Carson
Purge Start	08:52	**Gallons Purged**	4.76	**Replicate/ Code No.**	G-FB-1	**Color**	Clear
Purge End	12:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:52:00	00:00	100	27.9	5.48	614.39	217.9	4.06	12.9	206.09
08:57:00	05:00	100	28.12	5.10	637.16	416.5	3.82	13.4	207.08
09:02:00	10:00	100	28.12	5.08	642.18	173.0	3.95	13.4	200.93
09:07:00	15:00	100	28.12	5.15	628.10	125.0	3.47	13.1	194.26
09:12:00	20:00	100	28.12	5.16	638.32	126.0	3.97	13.1	193.53
09:17:00	25:00	100	28.12	5.18	640.34	91.50	4.01	13.8	187.64
09:22:00	30:00	100	28.12	5.21	639.83	85.80	4.11	13.8	182.75
09:27:00	35:00	100	28.12	5.20	642.13	82.5	4.24	14.1	178.42
09:32:00	40:00	100	28.12	5.21	635.93	76.2	4.04	14.0	173.37
09:37:00	45:00	100	28.12	5.20	639.13	66.9	4.22	14.2	171.04
09:42:00	50:00	100	28.12	5.22	638.55	58.0	4.33	14.6	169.56
09:47:00	55:00	100	28.12	5.22	634.52	49.7	4.23	14.6	168.88
09:52:00	00:00	100	28.12	5.20	634.87	34.3	4.19	15.1	167.41
09:57:00	05:00	100	28.12	5.21	634.55	35.3	4.28	15.3	167.15
10:02:00	10:00	100	28.12	5.20	634.32	31.6	4.33	15.8	166.64
10:07:00	15:00	100	28.12	5.21	635.22	24.1	4.36	15.7	167.93
10:12:00	20:00	100	28.12	5.20	632.57	25.8	4.18	15.9	169.25
10:17:00	25:00	100	28.12	5.21	630.02	22.6	4.13	15.4	168.75
10:22:00	30:00	100	28.12	5.21	627.29	20.2	4.25	15.6	169.43
10:27:00	35:00	100	28.12	5.20	629.69	17.5	4.21	16.2	169.73
10:32:00	40:00	100	28.12	5.21	629.57	19.9	4.35	16.0	170.00
10:37:00	45:00	100	28.12	5.20	627.09	16.5	4.28	16.2	169.92
10:42:00	50:00	100	28.12	5.21	625.99	14.2	4.28	16.4	169.99
10:47:00	55:00	100	28.12	5.20	626.77	15.8	4.30	16.2	170.90
10:52:00	00:00	100	28.12	5.20	625.77	15.1	4.34	16.2	172.56

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

10:57:00	05:00	100	28.12	5.17	627.92	15.0	4.29	16.2	173.78
11:02:00	10:00	100	28.12	5.14	629.75	13.3	4.29	16.1	175.80
11:07:00	15:00	100	28.12	5.15	626.51	10.1	4.40	16.0	176.81
11:12:00	20:00	100	28.12	5.14	628.56	10.3	4.33	16.2	177.13
11:17:00	25:00	100	28.12	5.14	629.16	9.90	4.38	16.1	177.43
11:22:00	30:00	100	28.12	5.16	628.36	9.33	4.43	16.1	177.52
11:27:00	35:00	100	28.12	5.17	627.67	6.99	4.46	15.9	177.80
11:32:00	40:00	100	28.12	5.17	628.68	6.78	4.32	15.8	178.11
11:37:00	45:00	100	28.12	5.16	631.04	6.54	4.45	15.8	178.85
11:42:00	50:00	100	28.12	5.17	629.74	5.41	4.34	16.1	179.52
11:47:00	55:00	100	28.12	5.19	627.55	6.09	4.40	16.3	179.51
11:52:00	00:00	100	28.12	5.20	627.96	5.02	4.41	16.3	179.23

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	2	None
RAD Chem	1L Plastic	4	HNO3
Metals	250 mL Plastic	2	HNO3
Chloride,Fluoride ,Sulfate	500 mL Plastic	2	None

Comments:

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:05:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-6R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-3R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:36:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-1R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-4R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:23:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-2R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:31:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-5R
Person Gauging:	Mark Chest
Date:	2/7/2022
Time:	11:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	None				
8	Date by when corrective actions are needed:				

Appendix C

Statistical Analysis Results

August 2021 Event

Appendix III Statistically Significant Increase Summary (August 2021)

Appendix III Parameter	Monitoring Wells
Boron	GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, TWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

GROUNDWATER STATS CONSULTING

February 28, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates CCR Landfill Gypsum Stack
August/September 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2021 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Landfill Gypsum Stack. 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 United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I

        - **Gypsum Landfill:** GWA-2
        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Note that in addition to the wells listed above, well GWA-1, which has not been sampled since 2004, provides historical upgradient data for a handful of Georgia EPD constituents. GWA-1 is only plotted on time series graphs and box plots as reference data, and no formal statistics using this well are included in this report.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The Coal Combustion Residuals (CCR) and Georgia EPD programs consist of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium
- **Georgia EPD Appendix I & II:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of all downgradient well/constituent pairs containing 100% non-detects for Appendix I & II, as well as Appendix IV parameters, follow this letter. During previous scan events, molybdenum was not detected; therefore, it was not required to be sampled. All Appendix IV constituents, however, are currently sampled. In some cases, upgradient wells at a given unit were not historically sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their historical respective Scan events at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for these constituents during all sample events:

- Yates AP-2: mercury and thallium
- Yates AMA-R6: thallium

Combined upgradient well data from all units at Plant Yates are utilized to construct interwell prediction limits and upper tolerance limits for Appendix III and IV parameters, respectively. The absence of samples from some upgradient wells due to the reasons discussed above affects the overall number of samples used for construction of interwell limits among all units at Plant Yates. Background data sets from upgradient wells may appear to be incomplete but this is a result of no sample collection requirements for all of the same sample events which does not greatly affect the calculated limits.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (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).

In time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. For intrawell prediction limits, the most recent reporting limit for a given well/constituent will be substituted for any non-detect values. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Based on the previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method 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 in the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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. Power curves were based on the following statistical methods:

Georgia EPD Appendix I & II Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 15 (Silver was historically non-detect at all wells)
- # Downgradient wells: 6

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (fluoride and pH)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, sulfate, and TDS)
- # Constituents: 7
- # Downgradient wells: 6

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals, as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with parametric limits is based on an annual 10% (5% per semi-annual event) as recommend by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009).

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. 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.

Background Screening Summaries – State and Federal

Georgia EPD Appendix I & II Constituents – Conducted in August 2019

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, one outlier was identified. Although there were no cases of this present in the datasets, 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.

Tukey's test method did not identify outliers for the highest measurements of zinc in wells GWA-2, GWC-3R and GWC-4R; however, these values were flagged in the database so that resulting statistical limits will be lower and more conservative, i.e., sensitive to changes in concentration. A list of all flagged outliers is presented in the Outlier Summary (Appendix C).

Additionally, 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 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.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made. 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, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

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 from 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.

Statistically significant decreasing trends were noted for a few constituents, and one statistically significant increasing trend was identified for barium in well GWC-6R. The data sets are still relatively small, and the magnitudes of these trends were low relative to the average concentrations. Therefore, no adjustments were required to any of the records except for barium in wells GWC-4R and GWC-5R. Earlier measurements for barium in these wells were considerably higher than currently reported measurements. In order to construct prediction limits that are lower and more conservative from a regulatory perspective, only the more recent portion of these records were used for the statistical limits. All background data will be re-evaluated during the next background update. A summary of these background data ranges follows this letter.

CCR Appendix III Constituents – Conducted in April 2019

Using the Tukey box plot method, one outlier was identified. The outlier identified by Tukey's method was not flagged in the database as it was similar to remaining measurements within the same well and neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the

time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made.

The results of the trend analyses were included in the previous screening and showed a few statistically significant decreasing trends. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short in 2019; therefore, no adjustments were made to the data sets. However, when decreasing trends persist over a longer time frame for intrawell parameters in downgradient wells or interwell parameters in upgradient wells, some records may need to be truncated in order to maintain conservative limits

Evaluation of Georgia EPD Appendix I & II Constituents – August/September 2021

Intrawell Prediction Limits

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data through August 2018, except for the cases mentioned above and listed in the background date range table. The prediction limits are presented in Figure D. Compliance data are compared to these intrawell background limits during each subsequent semi-annual sampling event. Additionally, no statistical analyses were

included for well/constituent pairs with 100% non-detects, which includes silver for all wells with the exception of downgradient well GWC-5R as noted below.

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 the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. Statistical exceedances were identified in the following wells (Figure D):

- Beryllium: GWC-5R
- Cobalt: GWC-3R
- Selenium: GWC-1R and GWC-3R
- Zinc: GWA-2 (upgradient) and GWC-5R

Note that the reported August 2021 observations for beryllium and selenium are at or below their respective Maximum Contaminant Levels (MCL) of 0.004 mg/L and 0.05 mg/L. While no detections above the reporting limit have been observed for silver at any wells, a trace value of 0.00084 mg/L was reported during the August 2021 event at downgradient well GWC-5R and was compared to a prediction limit of 0.005 mg/L. Therefore, no exceedance was identified.

Trend Test Evaluation – Appendix I & II

When prediction limit exceedances occur in any of the 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. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Since upgradient wells across all units at Plant Yates were not used in constructing intrawell limits for Appendix I & II parameters, not all upgradient wells were included in trend test analyses. Upgradient well GWA-2 is the only well directly upgradient of the Plant Yates Gypsum Landfill; therefore, it was included in the trend analyses for the well/constituent pairs with intrawell prediction limit exceedances. A summary and graphical presentation of the trend test results follows this letter (Figure E). The following statistically significant trend was noted:

Increasing

- Zinc: GWC-5R

Evaluation of Appendix III Parameters – August/September 2021

Intrawell Prediction Limits

For fluoride and pH, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through February 2019 (Figure F). The August/September 2021 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were identified for the following well/constituent pairs:

- pH (lower limit): GWC-5R

Note that the exceedance in well GWC-5R for pH resulted from the number of significant figures included in the limit.

Interwell Prediction Limits

For Appendix III parameters that are analyzed using interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), background (upgradient) well data from all the Yates units were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data from all of the Yates units through September 2021 (Figure G). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent.

The August/September 2021 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-4R
- Calcium: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R
- Chloride: GWC-2R and GWC-4R
- Sulfate: GWC-1R, GWC-2R, GWC-5R, and GWC-6R
- TDS: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R

Trend Test Evaluation – Appendix III

Data from downgradient well/constituent pairs found to exceed their respective intrawell and interwell prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test. Trend tests were also performed for upgradient well GWA-2 for intrawell prediction limits and for all upgradient wells across all Yates units for interwell prediction limits (Figures H and I, respectively). Statistically significant trends were identified among the following downgradient well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing
- None

Decreasing
- pH: GWC-5R

Trends – Interwell Prediction Limit Exceedances

Increasing
- Calcium: YGWA-1D, YGWA-21I, YGWA-17S, and GWA-2 (all upgradient), GWC-2R (downgradient)
- Chloride: YGWA-17S and YGWA-20S (all upgradient)
- Sulfate: YGWA-1D, YGWA-3D, YGWA-5I, and GWA-2 (all upgradient)
- TDS: GWC-2R

Decreasing
- Boron: YGWA-40 and YGWA-47 (upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-39, YGWA-40, and YGWA-47 (all upgradient)
- TDS: YGWA-5D, YGWA-40, and YGWA-47 (all upgradient)

When trends are noted upgradient of the facility, it is an indication that groundwater concentrations are naturally changing over time.

Statistical Analysis of Appendix IV Parameters – August/September 2021

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.074 mg/L for cobalt at upgradient well GWA-2 from the August 2021 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The more recent reported measurements since August 2020 were previously flagged as these measurements were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2021 from all the Yates units for Appendix IV constituents (Figure J). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under Georgia EPD Rule 391-3-4-.10(6)(a). 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 Appendix IV constituents for the August/September 2021 sample event for the State rule (Figure K).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well using all historical data since 2016 (Figure L). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs with 100% non-detects since 2016. 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 Georgia EPD Rules 391-3-4-.10(6)(a). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals and complete graphical results follow this letter. No exceedances were identified for the confidence intervals.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates CCR Landfill Gypsum Stack. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina Rayner
Groundwater Statistician

Andrew Collins
Project Manager

100% Non-Detects - Appendix I & II

Analysis Run 10/29/2021 7:30 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Arsenic (mg/L)
GWA-1

Beryllium (mg/L)
GWA-1, GWA-2, GWC-6R

Cadmium (mg/L)
GWA-2, GWC-6R

Lead (mg/L)
GWC-6R

Molybdenum (mg/L)
GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Selenium (mg/L)
GWA-2

Silver (mg/L)
GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

100% Non-Detects - Appendix IV Downgradient

Analysis Run 10/28/2021 5:40 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWC-6R

Cadmium (mg/L)
GWC-6R

Lead (mg/L)
GWC-6R

Molybdenum (mg/L)
GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

Date Ranges

Date: 10/28/2021 5:27 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/8/2018

GWC-5R background:8/14/2013-8/7/2018

Appendix I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**GWC-5R**	**0.003**	**n/a**	**8/18/2021**	**0.0033**	**Yes**	**18**	**n/a**	**n/a**	**38.89**	**n/a**	**n/a**	**0.005373**	**NP Intra (normality) 1 of 2**
Cobalt (mg/L)	**GWC-3R**	**0.005**	**n/a**	**8/18/2021**	**0.01**	**Yes**	**18**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	**GWC-1R**	**0.01**	**n/a**	**8/18/2021**	**0.019**	**Yes**	**18**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	**GWC-3R**	**0.01**	**n/a**	**8/18/2021**	**0.017**	**Yes**	**18**	**n/a**	**n/a**	**61.11**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Zinc (mg/L)	**GWA-2**	**0.009584**	**n/a**	**8/20/2021**	**0.014**	**Yes**	**23**	**0.004991**	**0.002**	**4.348**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	**GWC-5R**	**0.01798**	**n/a**	**8/18/2021**	**0.026**	**Yes**	**15**	**0.00738**	**0.004189**	**0**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/20/2021	0.003ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.003ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.0016J	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.0028J	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0021J	No	18	n/a	n/a	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	8/20/2021	0.036	No	27	0.05023	0.01305	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09203	n/a	8/18/2021	0.076	No	18	0.04614	0.01903	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/18/2021	0.033	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.1072	n/a	8/18/2021	0.014	No	18	0.1832	0.05976	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.0778	n/a	8/18/2021	0.04	No	19	0.1732	0.04443	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.06311	n/a	8/18/2021	0.013	No	14	0.03304	0.01162	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-6R	0.1025	n/a	8/18/2021	0.035	No	24	0.04776	0.02401	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/18/2021	0.0003J	No	18	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.00022J	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/18/2021	0.0011	No	18	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.00011J	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	**GWC-5R**	**0.003**	**n/a**	**8/18/2021**	**0.0033**	**Yes**	**18**	**n/a**	**n/a**	**38.89**	**n/a**	**n/a**	**0.005373**	**NP Intra (normality) 1 of 2**
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/18/2021	0.00017J	No	18	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0025	n/a	8/18/2021	0.00016J	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/18/2021	0.00022J	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/18/2021	0.0005ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001	No	18	n/a	n/a	44.44	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.0015J	No	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	82.61	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.0023J	No	18	n/a	n/a	27.78	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0015J	No	24	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003J	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.008717	n/a	8/18/2021	0.0014J	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-2R	0.04742	n/a	8/18/2021	0.00066J	No	23	0.02477	0.009863	4.348	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	**GWC-3R**	**0.005**	**n/a**	**8/18/2021**	**0.01**	**Yes**	**18**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Cobalt (mg/L)	GWC-4R	0.007137	n/a	8/18/2021	0.0027J	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00053J	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	8/20/2021	0.0012J	No	22	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.00067J	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0022J	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.00083J	No	19	n/a	n/a	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/20/2021	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/18/2021	0.0002ND	No	24	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.021	n/a	8/20/2021	0.014	No	22	n/a	n/a	13.64	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.01331	n/a	8/18/2021	0.0028J	No	13	-6.05	0.655	38.46	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.01015	n/a	8/18/2021	0.005ND	No	18	0.003546	0.00274	44.44	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.0026J	No	18	n/a	n/a	77.78	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.005956	n/a	8/18/2021	0.0016J	No	13	0.002281	0.00139	30.77	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.0012J	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.01**	**n/a**	**8/18/2021**	**0.019**	**Yes**	**18**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.0042J	No	23	n/a	n/a	69.57	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-3R**	**0.01**	**n/a**	**8/18/2021**	**0.017**	**Yes**	**18**	**n/a**	**n/a**	**61.11**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	GWC-4R	0.01548	n/a	8/18/2021	0.0046J	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04273	n/a	8/18/2021	0.017	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0016J	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00084J	No	13	n/a	n/a	100	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	21	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/20/2021	0.01ND	No	24	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	76.19	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Zinc (mg/L)	**GWA-2**	**0.009584**	**n/a**	**8/20/2021**	**0.014**	**Yes**	**23**	**0.004991**	**0.002**	**4.348**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	GWC-1R	0.007102	n/a	8/18/2021	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-2R	0.01249	n/a	8/18/2021	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01462	n/a	8/18/2021	0.011	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	**GWC-5R**	**0.01798**	**n/a**	**8/18/2021**	**0.026**	**Yes**	**15**	**0.00738**	**0.004189**	**0**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality) 1 of 2

Appendix I & II Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Zinc (mg/L)	**GWC-5R**	**0.001961**	**170**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix I & II Trend Test Summary - Prediction Limit Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWC-5R	0.0000398	50	124	No	27	25.93	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-161	No	32	34.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-3R	0	22	124	No	27	74.07	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	-20	-124	No	27	48.15	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-3R	-0.00004976	-59	-124	No	27	40.74	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	0.000108	54	146	No	30	10	n/a	n/a	0.01	NP
Zinc (mg/L)	**GWC-5R**	**0.001961**	**170**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWC-5R**	**5.711**	**4.765**	**8/18/2021**	**4.76**	**Yes**	**9**	**5.238**	**0.1758**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	8/20/2021	0.06J	No	9	0.1174	0.03628	0	None	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.22	n/a	8/18/2021	0.16	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/18/2021	0.056J	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	7.106	5.427	8/20/2021	5.86	No	21	6.266	0.401	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	5.52	4.49	8/18/2021	5.08	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/18/2021	4.96	No	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.28	4.31	8/18/2021	4.73	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-4R	6.245	4.827	8/18/2021	5.46	No	10	5.536	0.2783	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	**GWC-5R**	**5.711**	**4.765**	**8/18/2021**	**4.76**	**Yes**	**9**	**5.238**	**0.1758**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**
pH (S.U.)	GWC-6R	6.687	5.169	8/18/2021	5.82	No	19	5.928	0.3559	0	None	No	0.0006268	Param Intra 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/18/2021	0.029J	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/18/2021	0.14	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**8/18/2021**	**4.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	8/18/2021	0.021J	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**8/18/2021**	**154**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**8/18/2021**	**45.8**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	8/18/2021	20.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**8/18/2021**	**56.2**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**8/18/2021**	**159**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**8/18/2021**	**74.5**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	8.5	n/a	8/18/2021	5.2	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**8.5**	**n/a**	**8/18/2021**	**26.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	8.5	n/a	8/18/2021	4.6	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**8.5**	**n/a**	**8/18/2021**	**150**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	8.5	n/a	8/18/2021	2.3	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	8.5	n/a	8/18/2021	5.4	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-1R**	**160**	**n/a**	**8/18/2021**	**675**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**8/18/2021**	**223**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	8/18/2021	114	No	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/18/2021	118	No	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**8/18/2021**	**946**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**8/18/2021**	**345**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**217.3**	**n/a**	**8/18/2021**	**1200**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**217.3**	**n/a**	**8/18/2021**	**474**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	217.3	n/a	8/18/2021	214	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**217.3**	**n/a**	**8/18/2021**	**630**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**217.3**	**n/a**	**8/18/2021**	**1660**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**217.3**	**n/a**	**8/18/2021**	**682**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Appendix III Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	**GWC-5R**	**-0.09154**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Test Summary - Intrawell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	GWA-2 (bg)	-0.03819	-145	-146	No	30	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWC-5R**	**-0.09154**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Test Summary - Interwell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.000923	-50	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.4027	92	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1782	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05961	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05007	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4824	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8704	-97	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.1339	13	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0008768	-36	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0	1	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-30	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0	0	63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.00007668	10	63	No	17	29.41	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-18	-63	No	17	70.59	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-13	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.005469	-53	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-14	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-25	-63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.004253	27	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-21	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-11	-63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	14	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-39	-63	No	17	58.82	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**4.423**	**71**	**53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	3.808	9	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**7.598**	**63**	**53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	3.444	29	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	7.109	43	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	4.534	12	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.01957	-45	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.12**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07527**	**-79**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7142**	**68**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.1058**	**-73**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.06963	56	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.218**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.3107	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.6588	26	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5989	46	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5549	41	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.8022	-47	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.845**	**-69**	**-48**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.2132	21	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-2.169**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.07389	58	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1877	43	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.955	50	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	3.199	11	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1776	42	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.06344	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2062	62	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.002869	-40	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02701	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1349	-41	-63	No	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-2I (bg)	-0.04401	-47	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02202	-32	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.3996	26	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2116	37	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.1004	41	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**23.3**	**74**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	7.337	1	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	26.07	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.034	-3	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-3.022	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.08247	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1098	59	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1768	-60	-63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1647	-50	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.025**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.2433	-23	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	30	63	No	17	64.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1968	-22	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.4455	27	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.07072	-31	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.378**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4885**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-3I (bg)	1.181	61	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-40 (bg)**	**-10.75**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-21.6**	**-78**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.1495	44	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.658**	**-104**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09609**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	10.15	3	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**64.22**	**57**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	11.94	12	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-27.21	-9	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	21.01	9	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 3:43 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS			
Constituent Name	**MCL**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006	0.0047	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.071	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.035	0.035
Combined Radium, Total (pCi/L)	5	6.92	6.92
Fluoride, Total (mg/L)	4	0.68	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.014	0.014
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	18	0.002928	0.0003064	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	18	0.002623	0.0008911	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	18	0.002714	0.0008336	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	18	0.003708	0.001916	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	18	0.004547	0.001319	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	18	0.004073	0.001584	72.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	18	0.004498	0.001462	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0024	0.00092	0.01	No	18	0.002131	0.001646	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	18	0.002994	0.002096	50	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	18	0.05153	0.01848	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.0526	0.04389	2	No	18	0.04824	0.007204	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03169	0.01989	2	No	18	0.02579	0.009758	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	18	0.02429	0.008831	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	18	0.02087	0.01027	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.06957	0.04746	2	No	18	0.05852	0.01827	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	18	0.001095	0.001387	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	18	0.001584	0.001459	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007298	0.0003243	0.004	No	18	0.0006344	0.0006449	5.556	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	18	0.002513	0.001121	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.00219	0.0007502	0.004	No	18	0.001619	0.001192	5.556	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	18	0.0003978	0.0001705	72.22	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	18	0.0003794	0.0001762	66.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	18	0.0003511	0.0001623	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	18	0.0004778	0.00009428	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009532	0.000579	0.005	No	18	0.0007661	0.0003093	5.556	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.0015	0.001	0.1	No	18	0.001967	0.001676	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	18	0.00402	0.001888	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.0009	0.1	No	18	0.002006	0.001665	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	18	0.003843	0.001926	72.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.0024	0.0018	0.1	No	18	0.002311	0.0007332	5.556	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	18	0.001966	0.001412	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	18	0.002074	0.001962	27.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02103	0.0104	0.035	No	18	0.01571	0.008785	5.556	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	18	0.005689	0.002558	61.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.0031	0.0006	0.035	No	18	0.002331	0.002179	16.67	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	18	0.003723	0.00212	72.22	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	18	0.005	0	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.037	0.5505	6.92	No	14	0.7939	0.3436	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.466	0.6398	6.92	No	14	1.053	0.5835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.073	0.2435	6.92	No	14	0.7206	0.7039	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6158	0.2042	6.92	No	14	0.41	0.2905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8872	0.2357	6.92	No	14	0.6058	0.4502	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.117	0.4306	6.92	No	14	0.8079	0.5687	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	17	0.08882	0.02118	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	17	0.1165	0.1218	70.59	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	17	0.1285	0.1251	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	17	0.09882	0.02027	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.056	4	No	17	0.1135	0.0967	52.94	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	17	0.1012	0.05134	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	18	0.0008955	0.0003042	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.00007	0.0013	No	18	0.0006402	0.0004642	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.001	0.000082	0.0013	No	18	0.0006459	0.0004571	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.001	0.000041	0.0013	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00007	0.0013	No	18	0.0006945	0.0004455	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.03	No	15	0.007229	0.01179	20	None	No	0.01	NP (normality)

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No	15	0.00928	0.01074	20	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	15	0.02421	0.012	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	15	0.02037	0.0141	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	15	0.01669	0.01473	53.33	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	15	0.01018	0.01249	26.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	18	0.0001922	0.00003323	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	18	0.0001949	0.00007887	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	18	0.0001921	0.00003347	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	18	0.0001821	0.00005289	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	18	0.006067	0.004707	22.22	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.003979	0.002554	0.05	No	18	0.003267	0.001178	11.11	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.0091	0.0021	0.05	No	18	0.0058	0.004065	16.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.005	0.003	0.05	No	18	0.004839	0.002778	5.556	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.0263	0.01833	0.05	No	18	0.02232	0.006591	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004023	0.002459	0.05	No	18	0.003317	0.001294	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	18	0.0009483	0.0002192	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	18	0.0009474	0.0002232	94.44	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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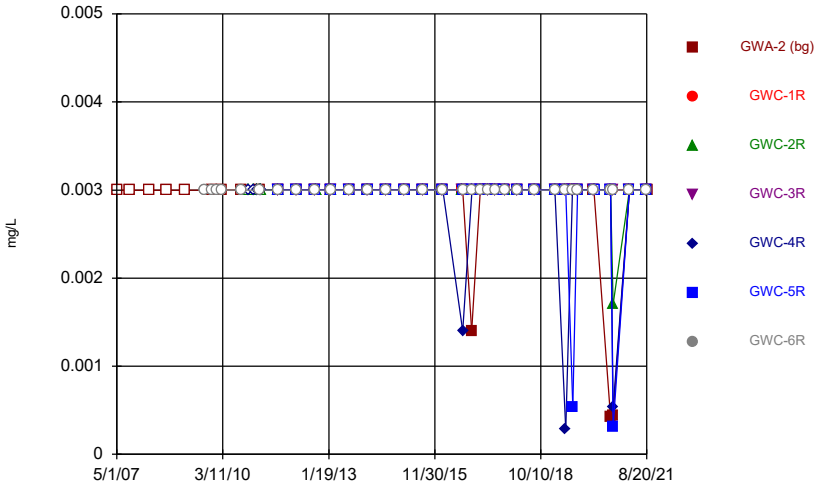

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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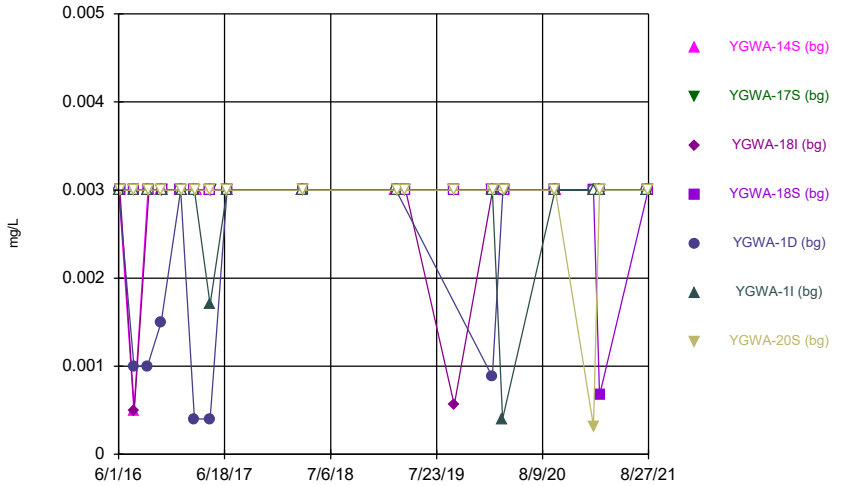

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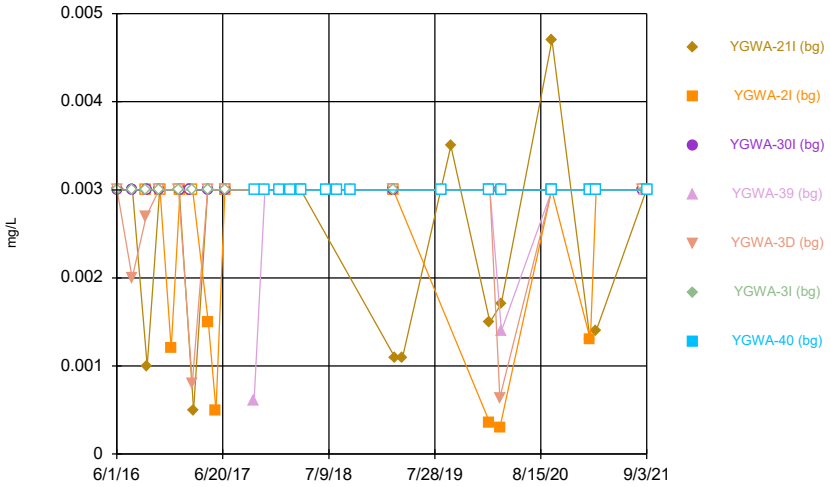

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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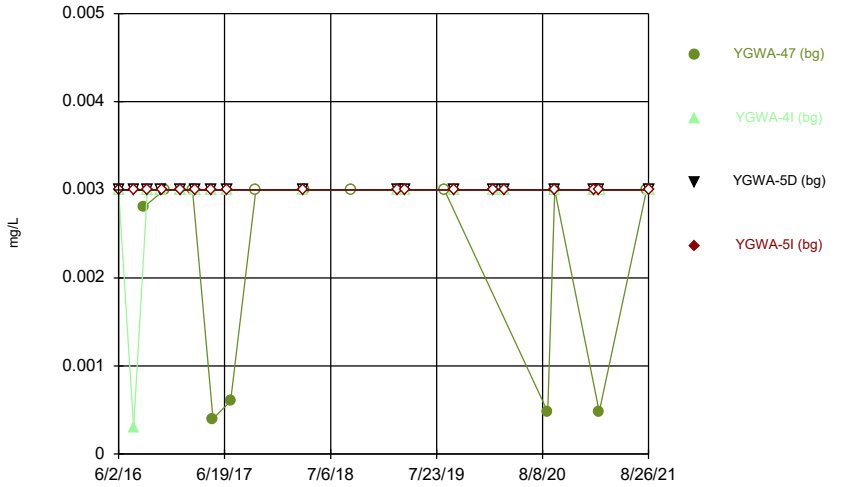

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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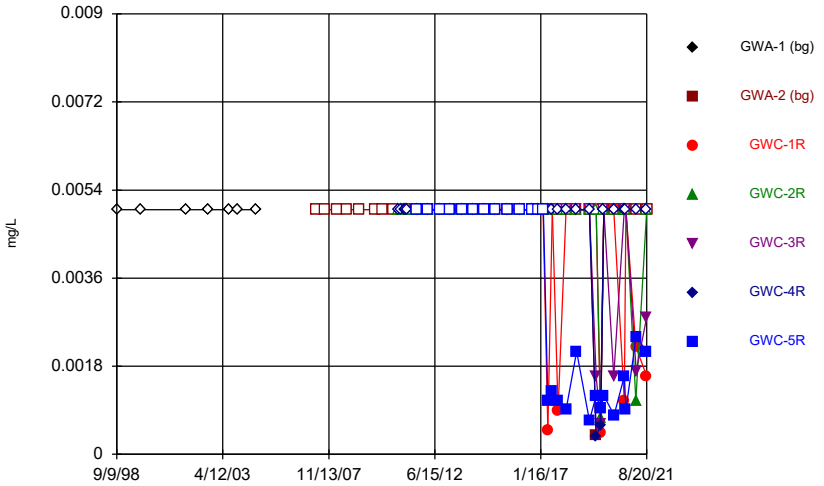

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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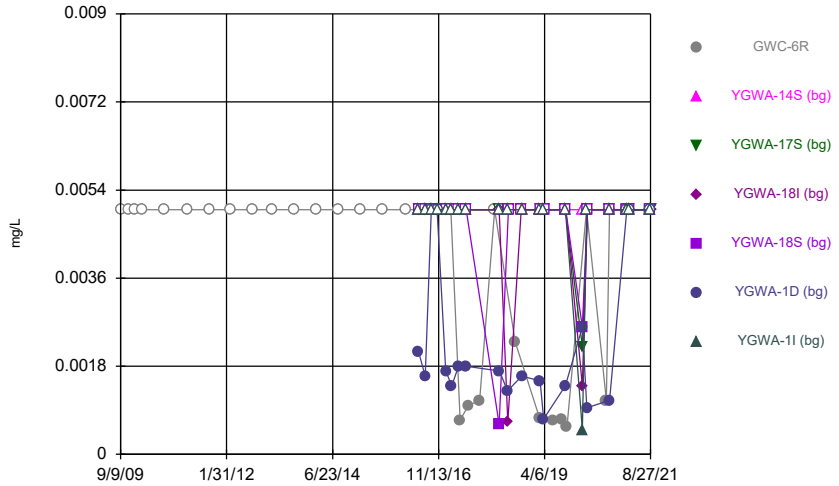

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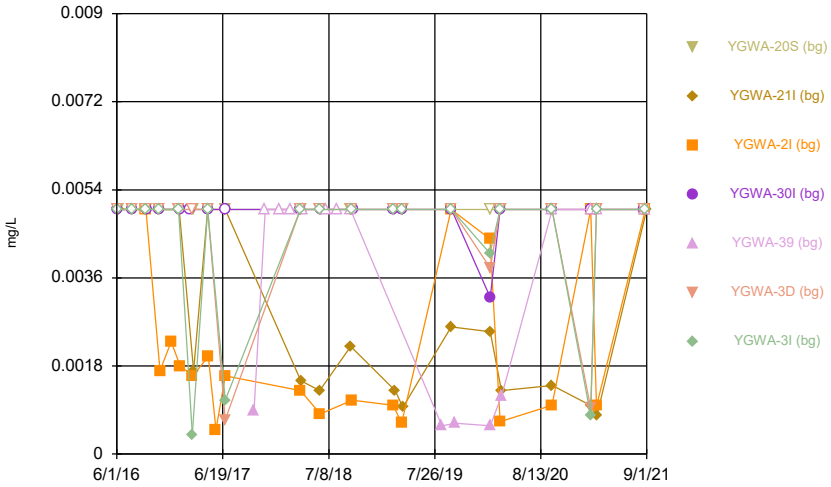

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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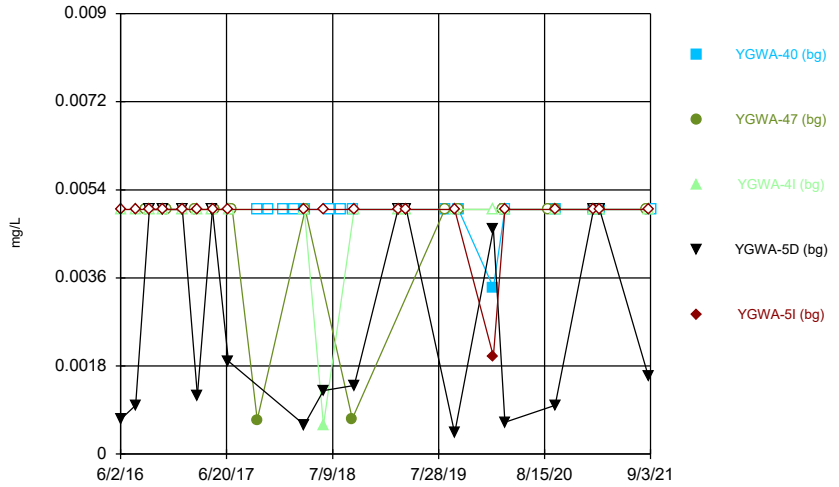

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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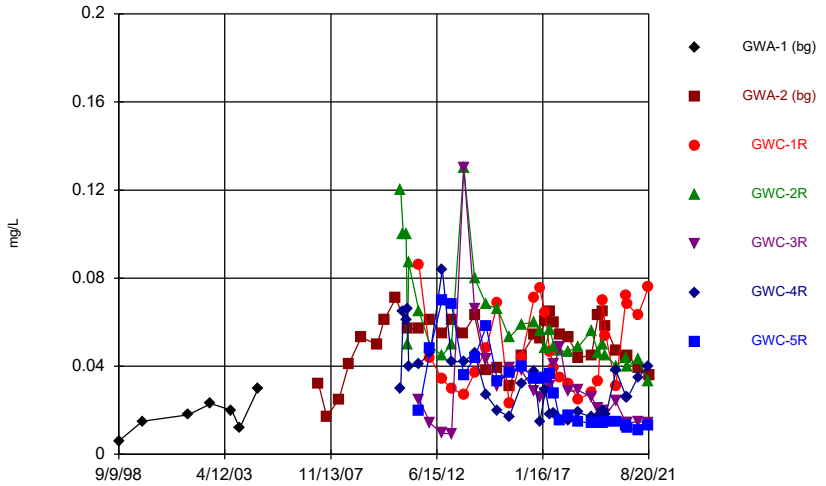

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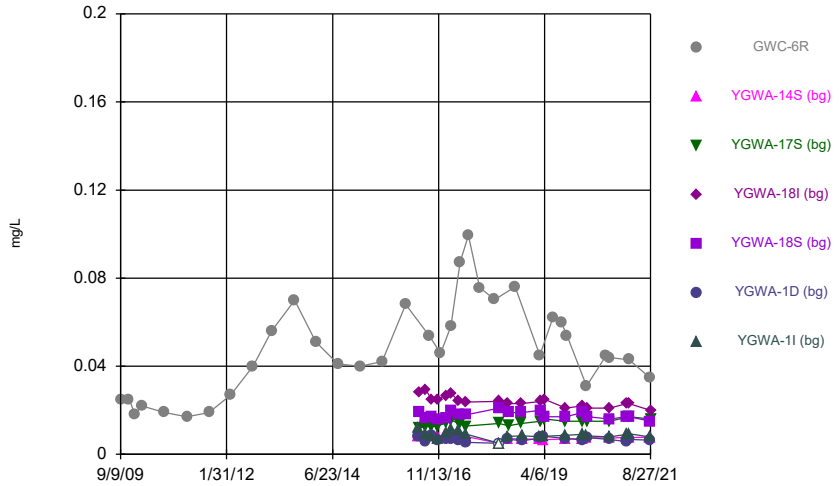

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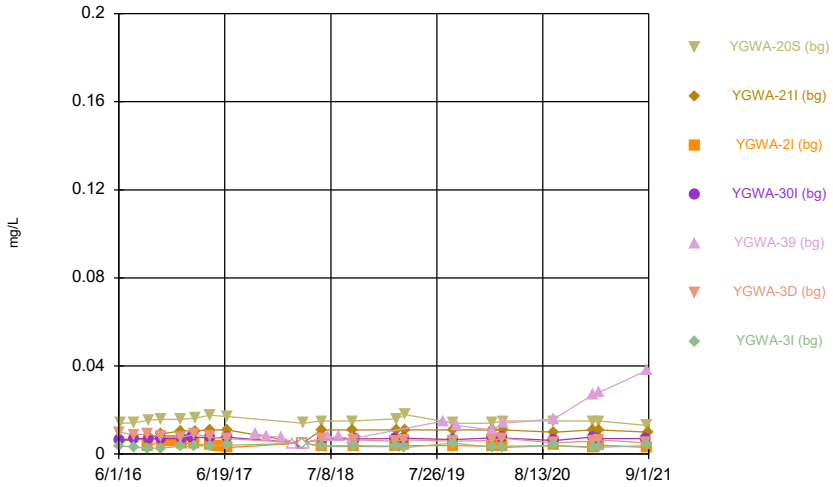

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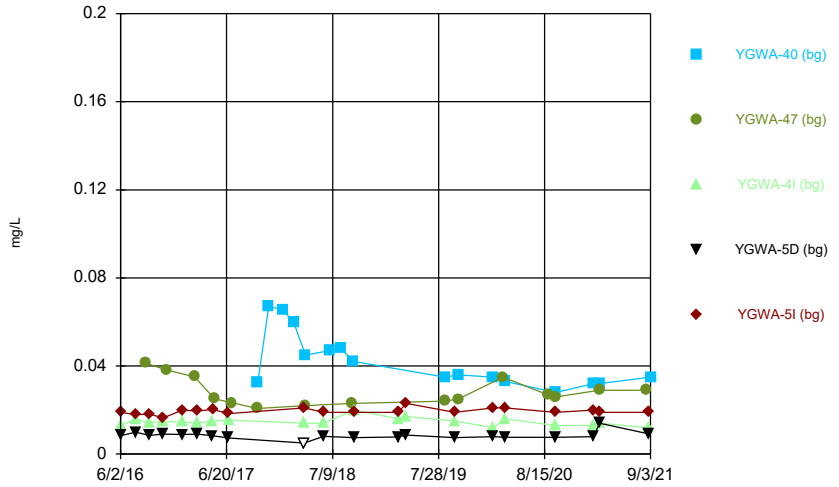

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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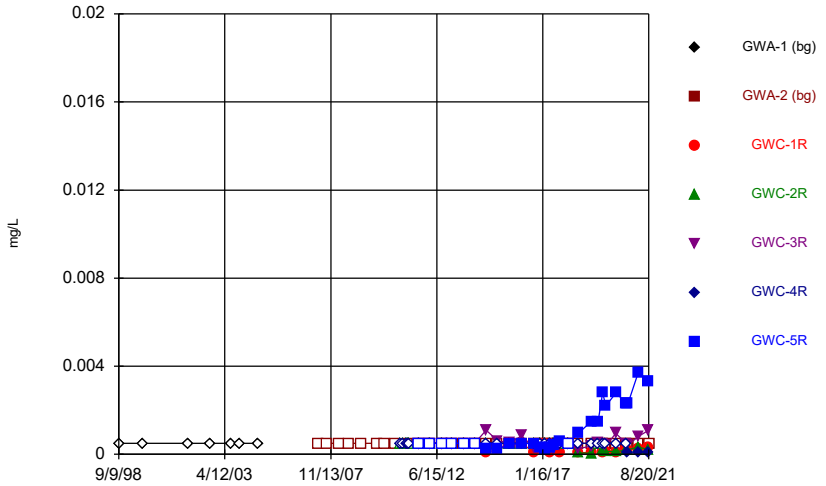

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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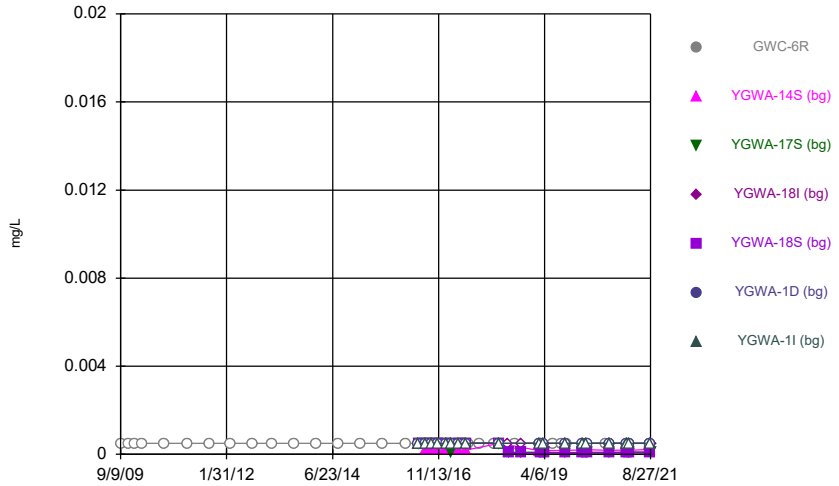

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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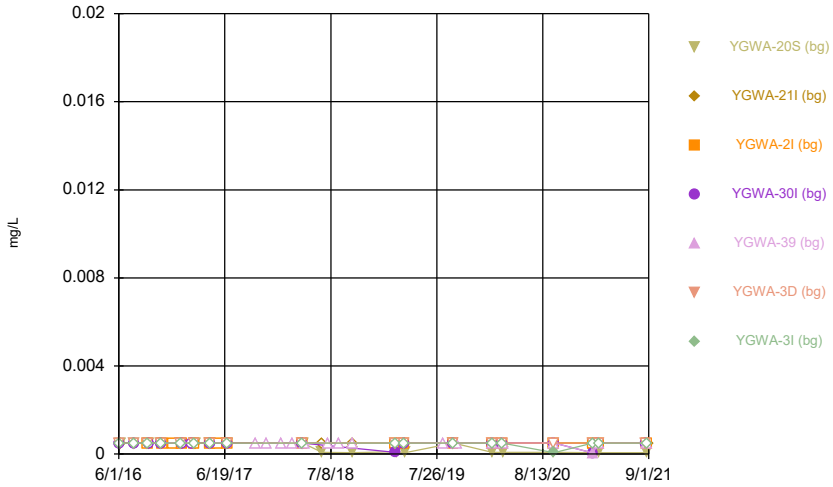

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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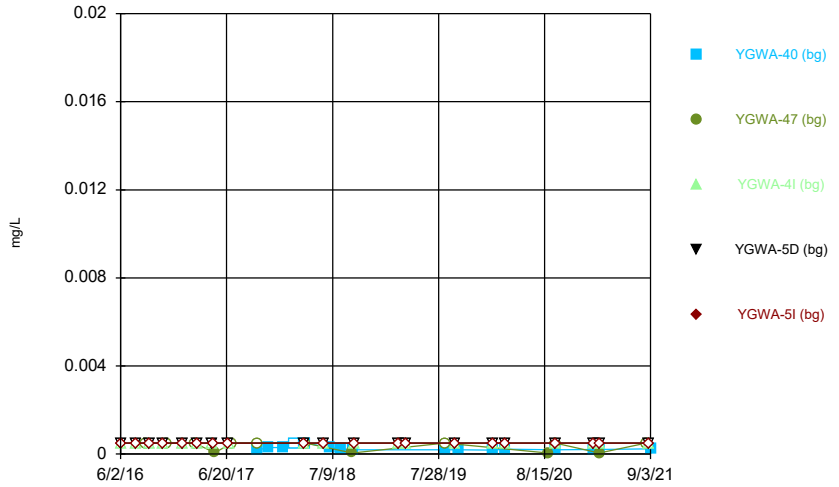

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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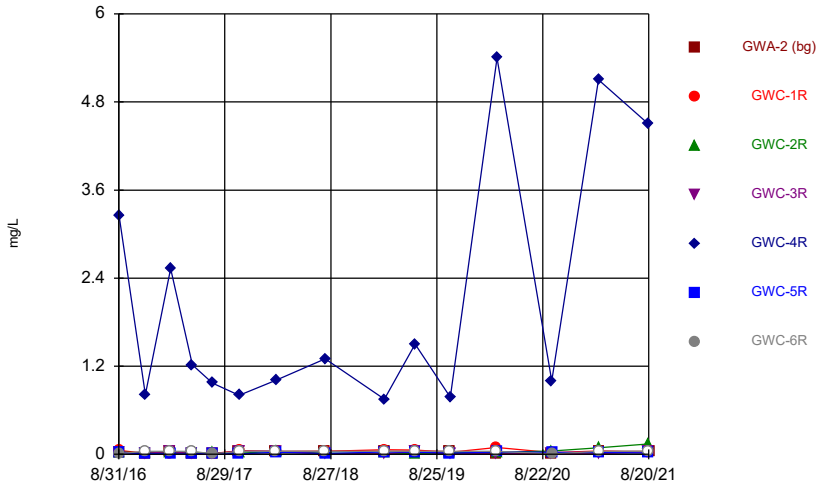

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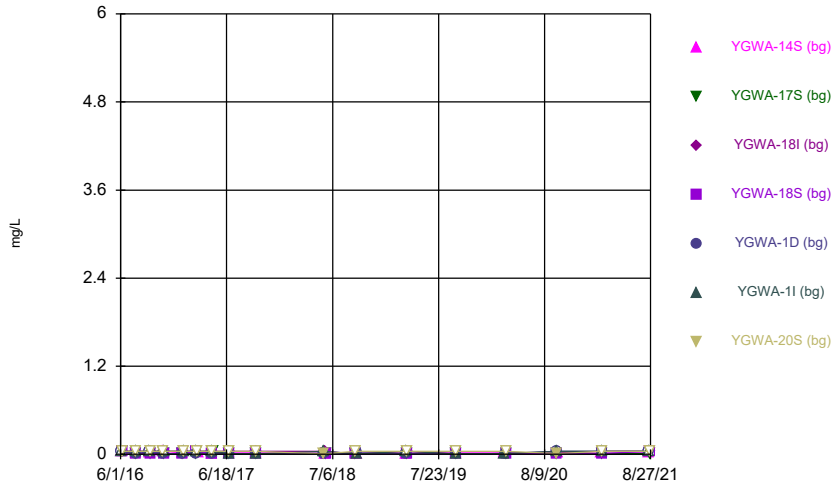
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

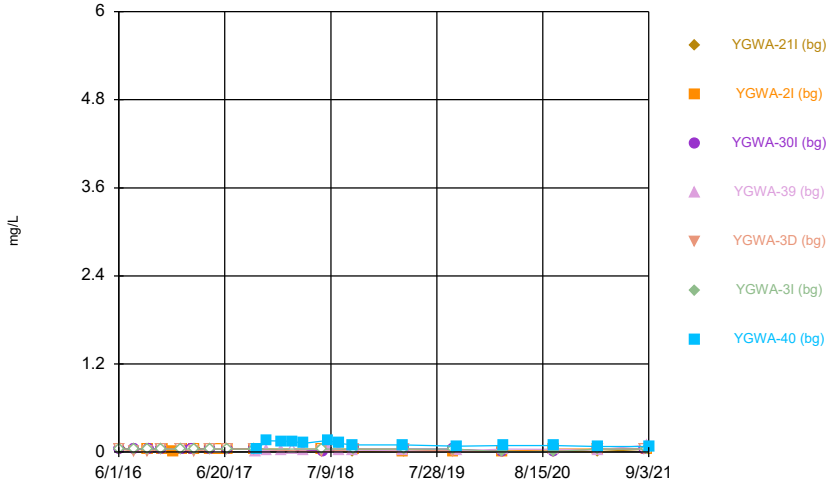
Time Series



Constituent: Boron Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

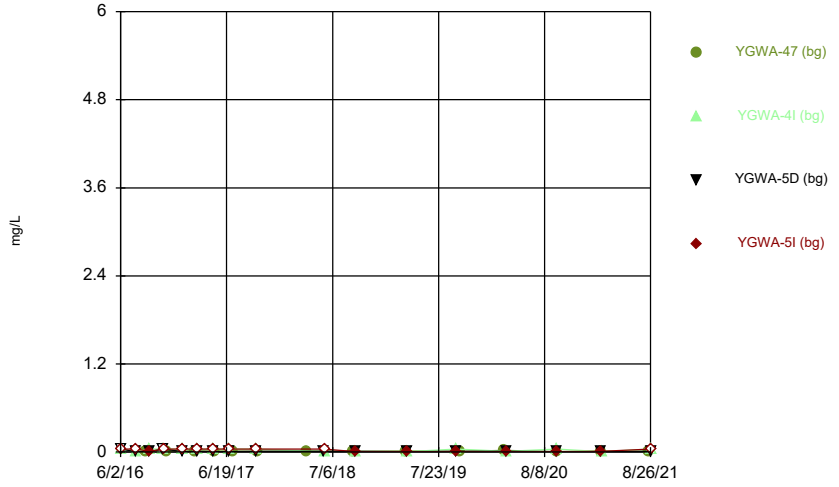
Time Series



Constituent: Boron Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

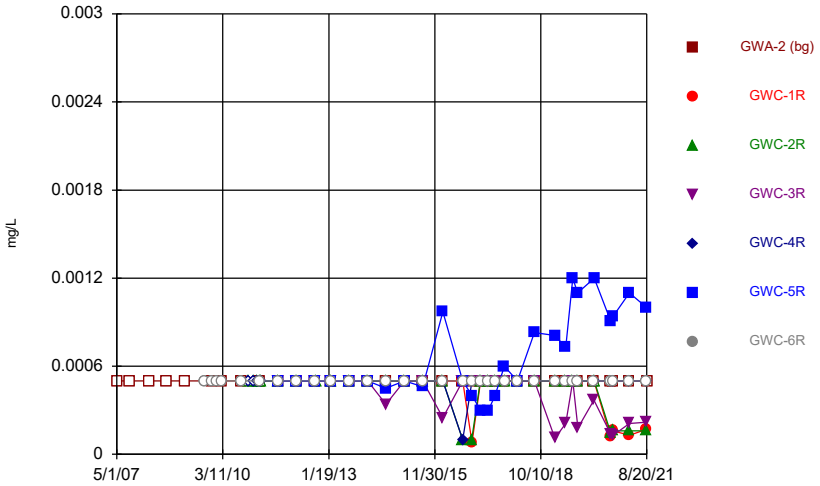
Time Series



Constituent: Boron Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

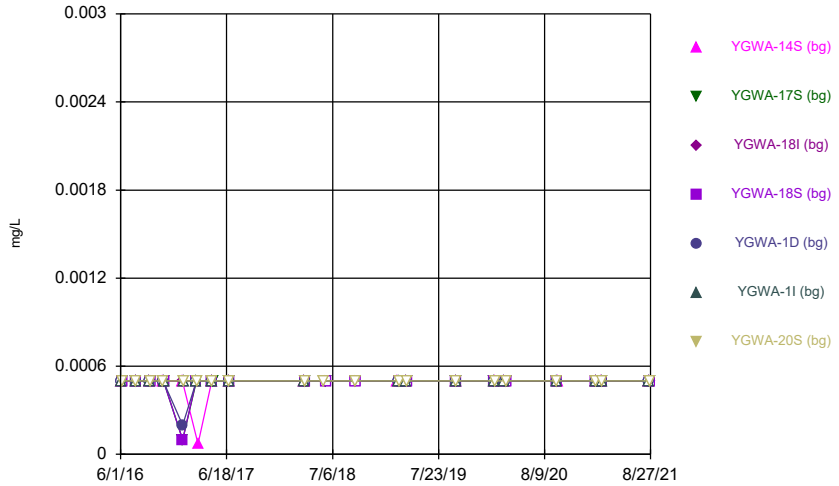
Time Series



Constituent: Cadmium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

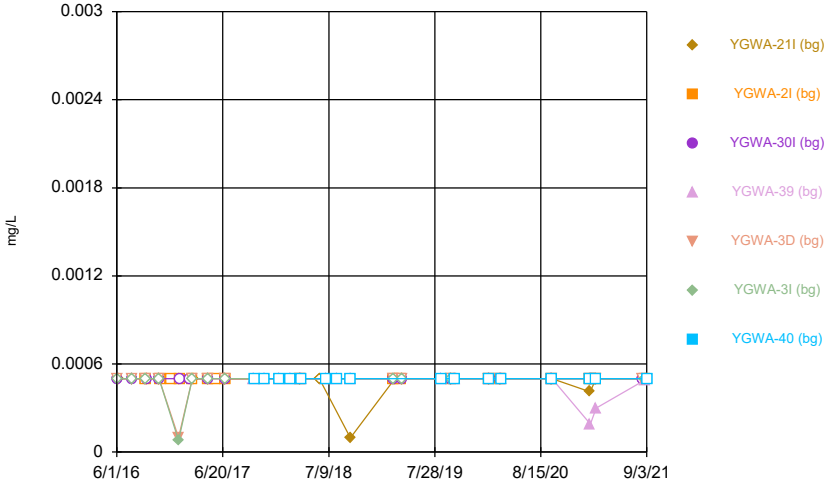
Time Series



Constituent: Cadmium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

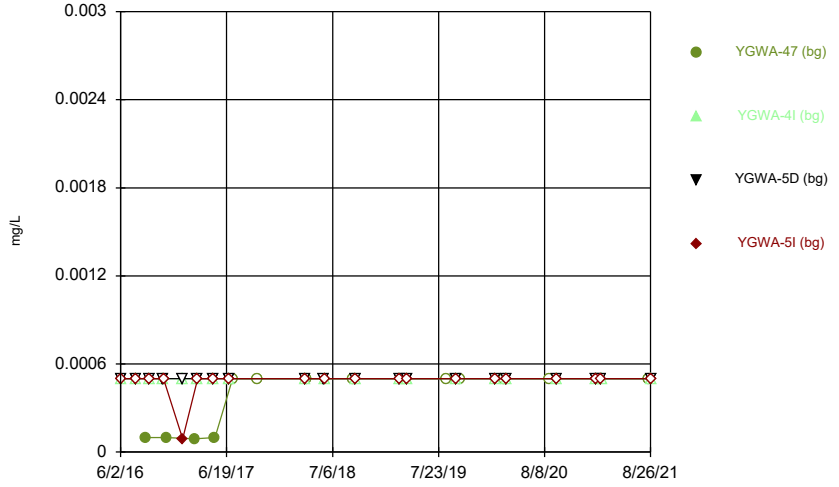
Time Series



Constituent: Cadmium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

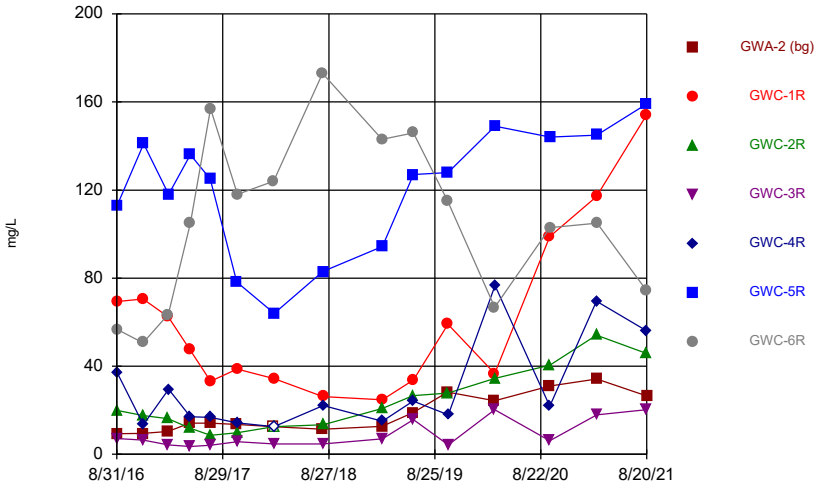
Time Series



Constituent: Cadmium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

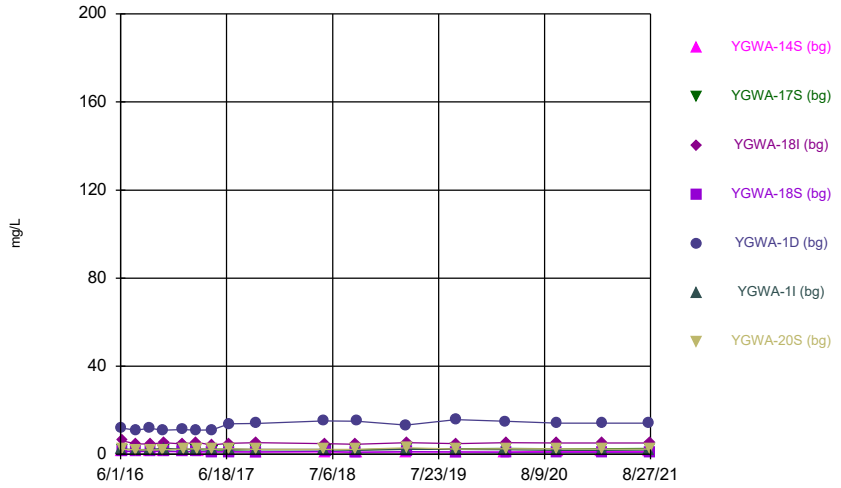
Time Series



Constituent: Calcium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

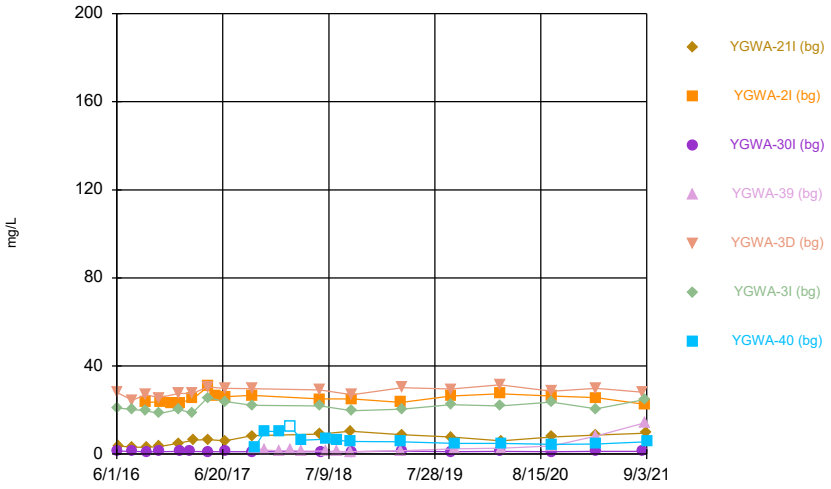
Time Series



Constituent: Calcium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

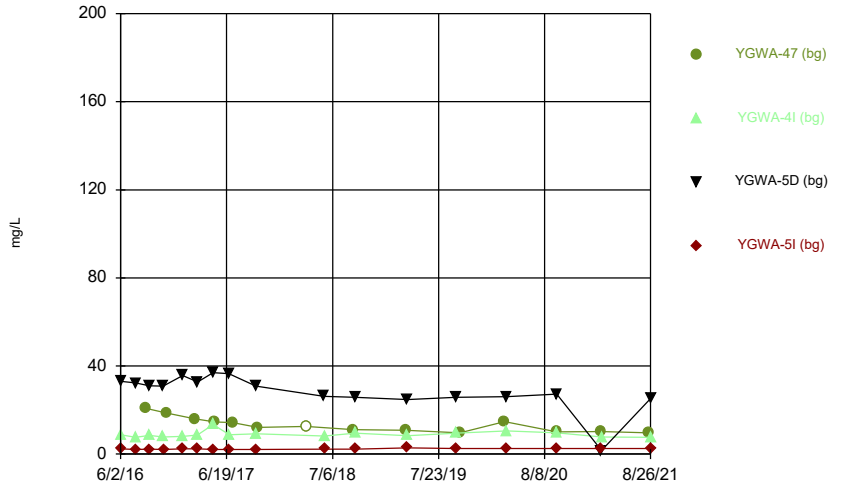
Time Series



Constituent: Calcium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

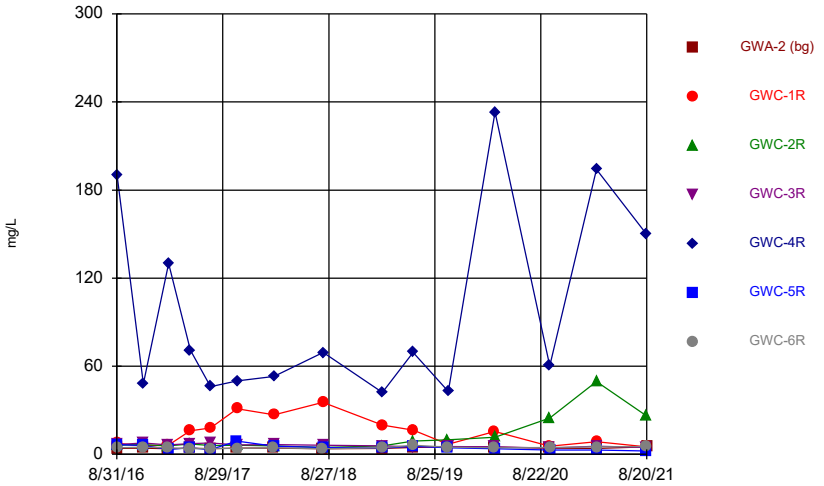
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Calcium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

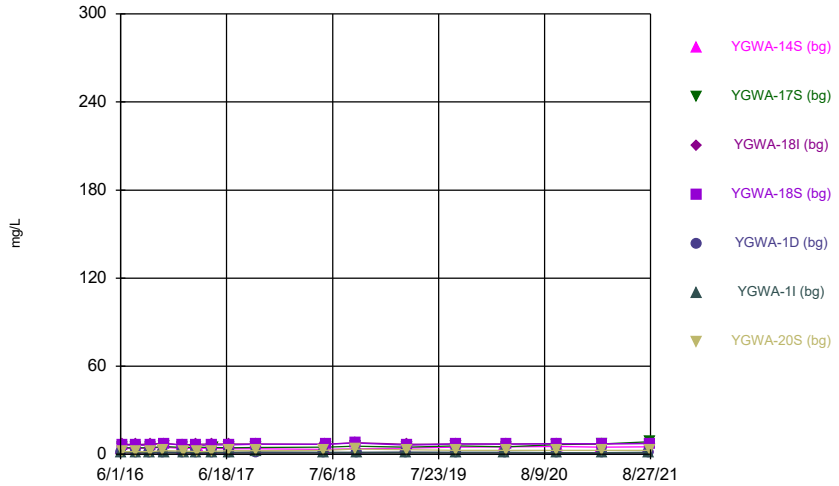
Time Series



Constituent: Chloride Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

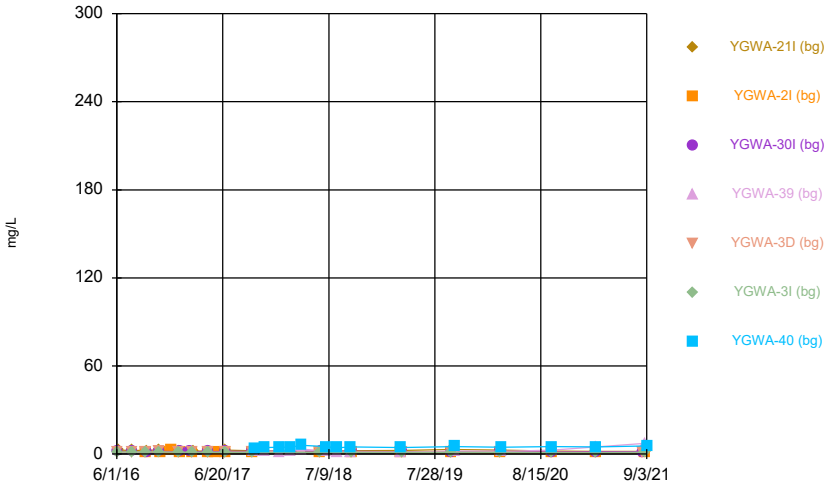
Time Series



Constituent: Chloride Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

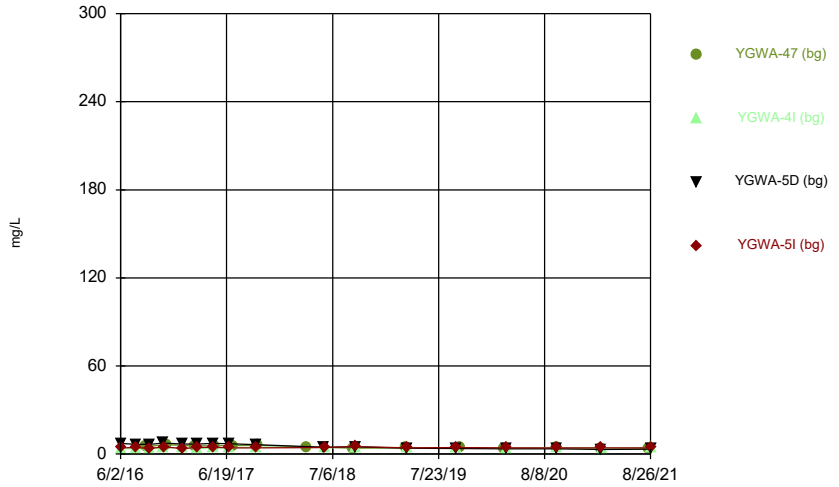
Time Series



Constituent: Chloride Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

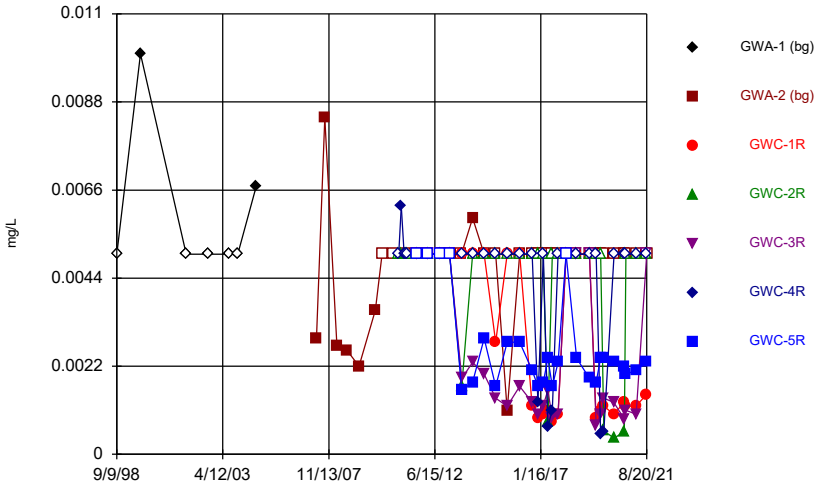
Time Series



Constituent: Chloride Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

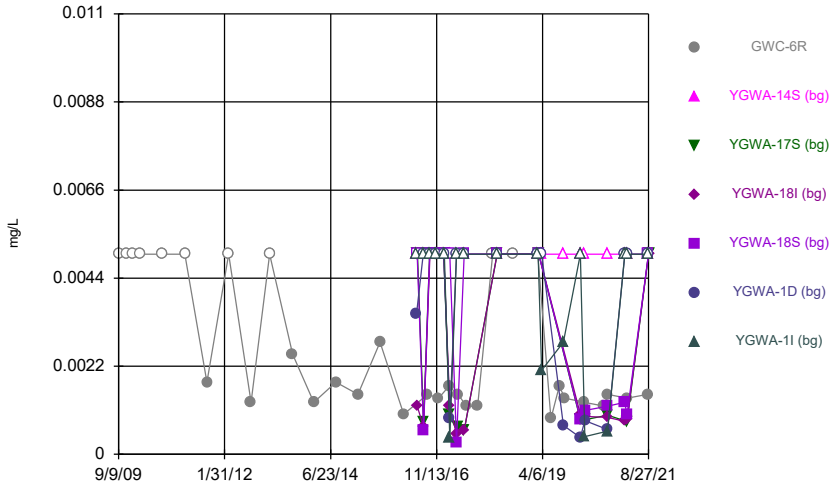
Time Series



Constituent: Chromium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

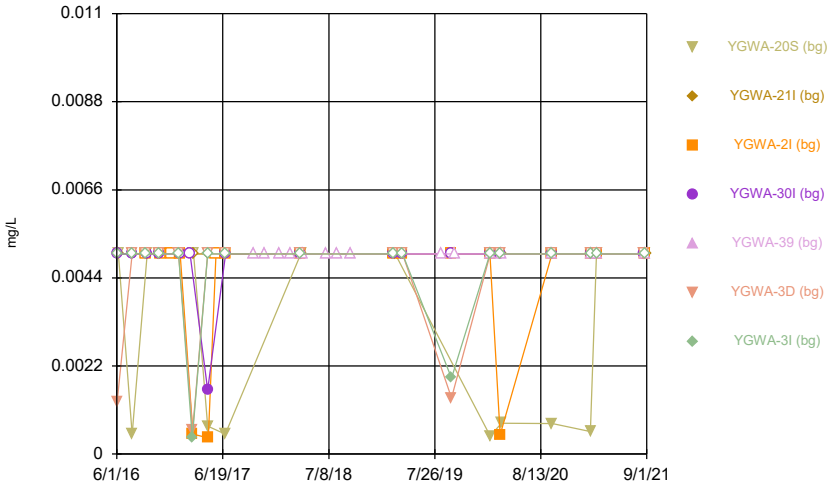
Time Series



Constituent: Chromium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

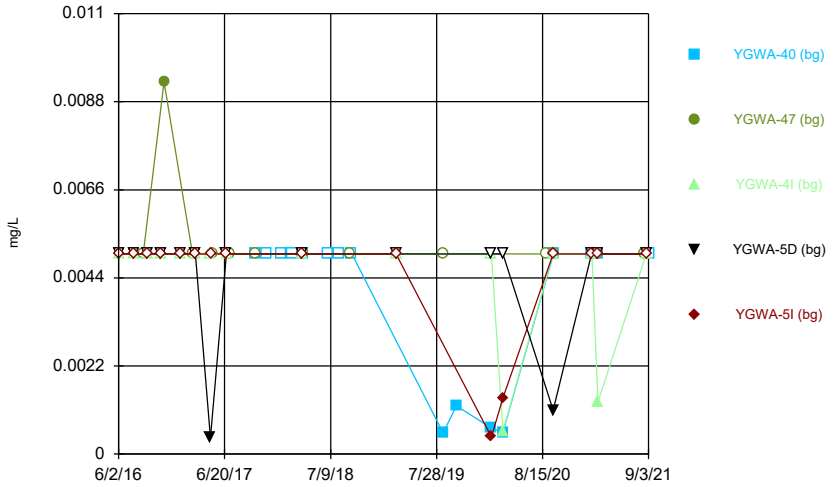
Time Series



Constituent: Chromium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

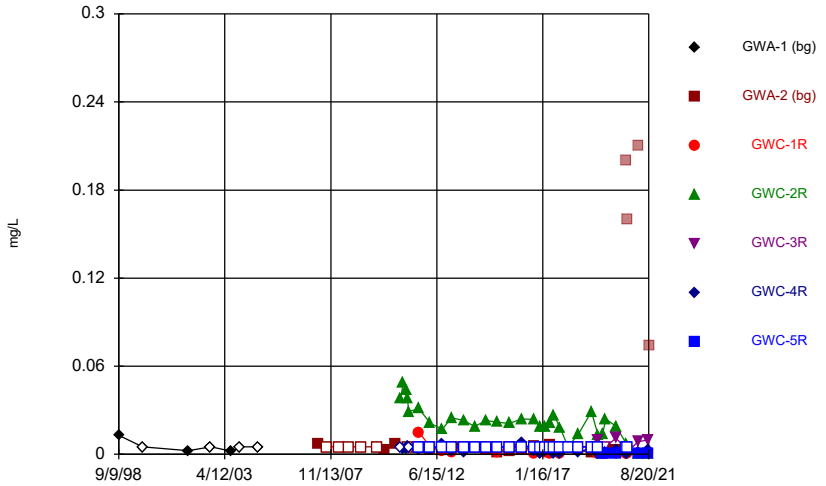
Time Series



Constituent: Chromium Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

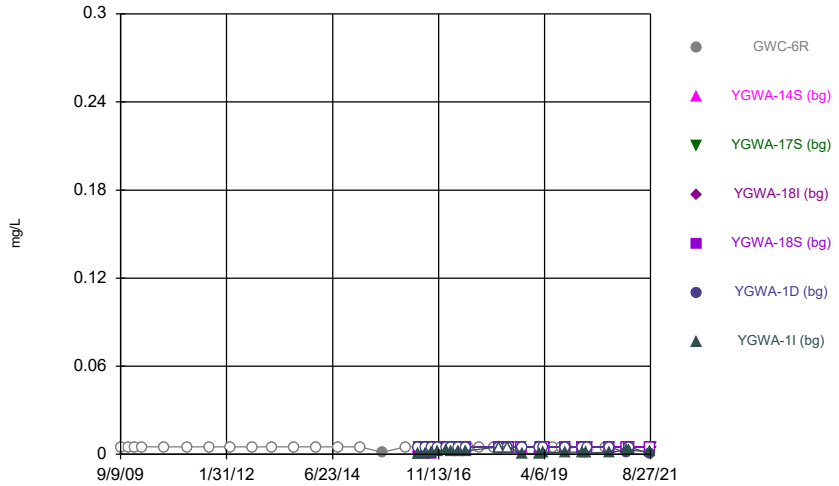
Time Series



Constituent: Cobalt Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

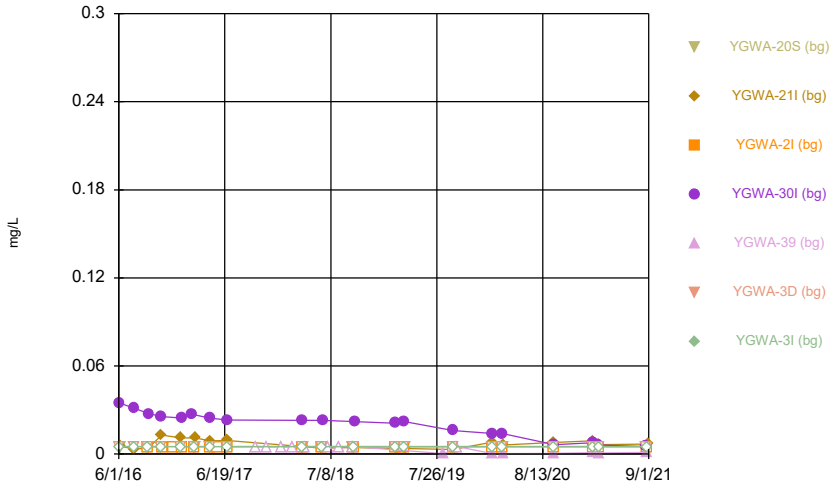
Time Series



Constituent: Cobalt Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

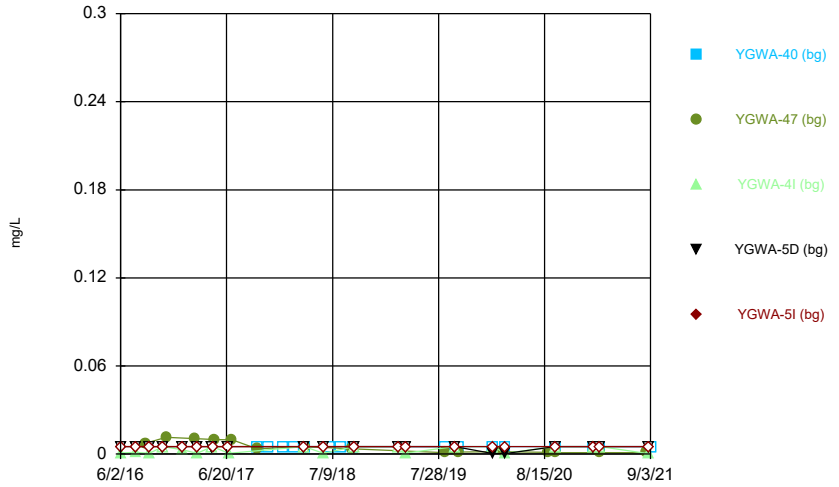
Time Series



Constituent: Cobalt Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

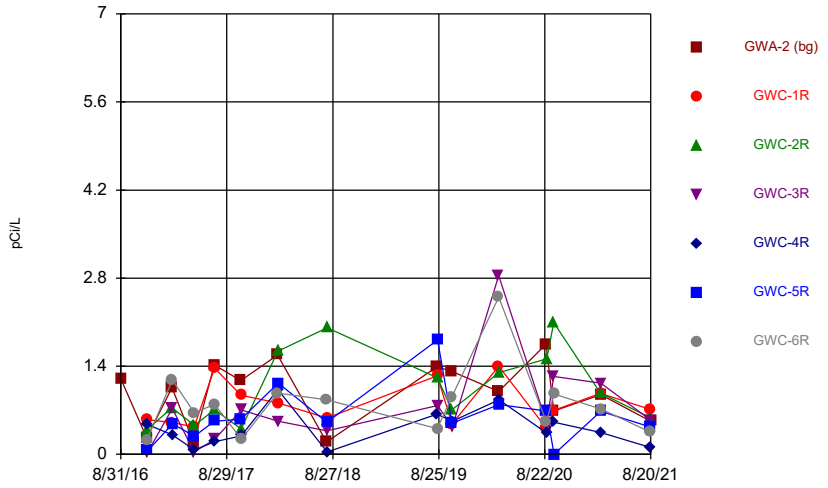
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

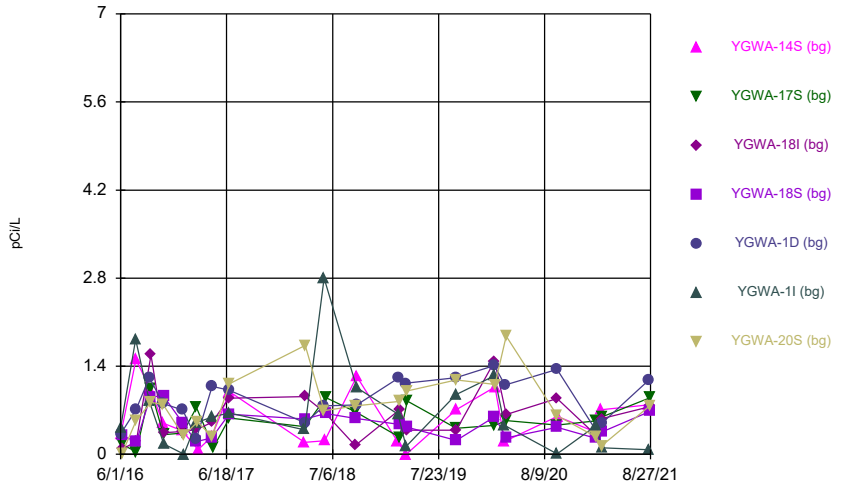
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

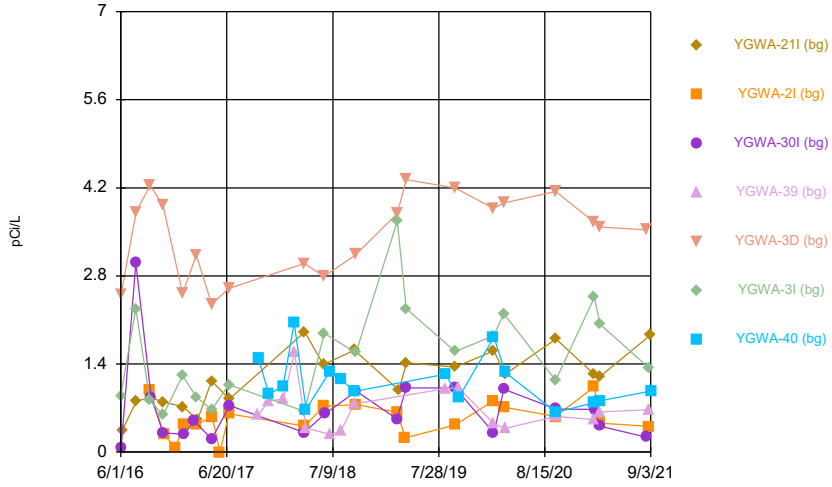
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

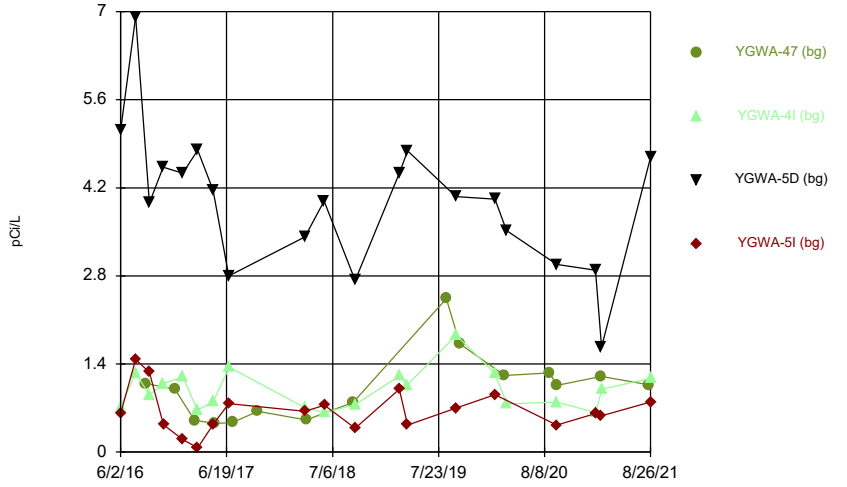
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

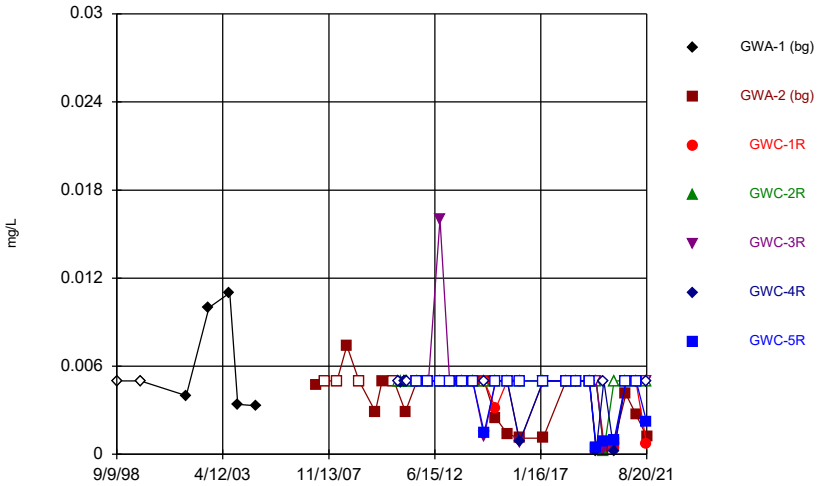
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

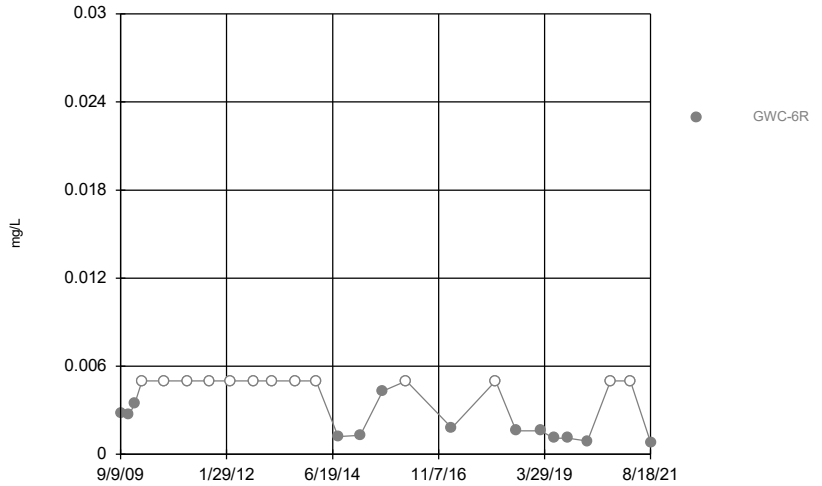
Time Series



Constituent: Copper Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

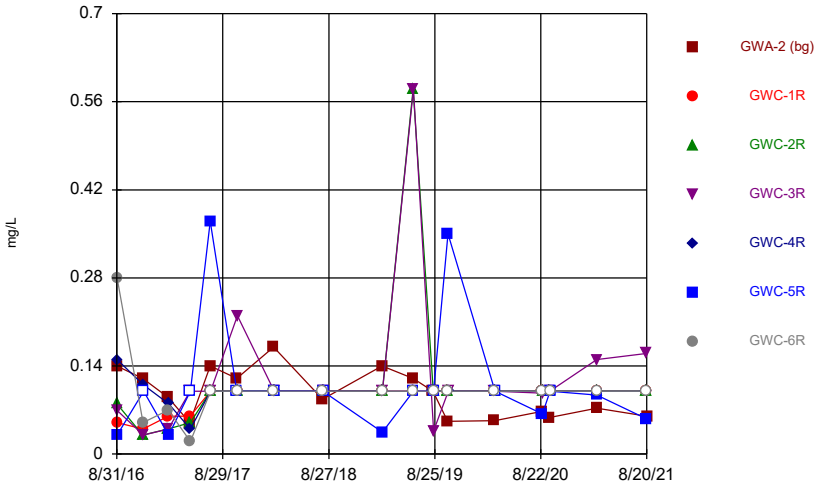
Time Series



Constituent: Copper Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

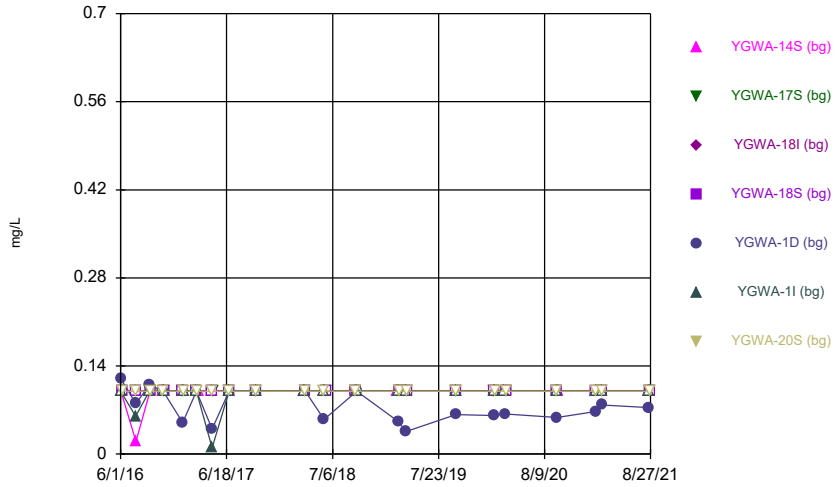
Time Series



Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

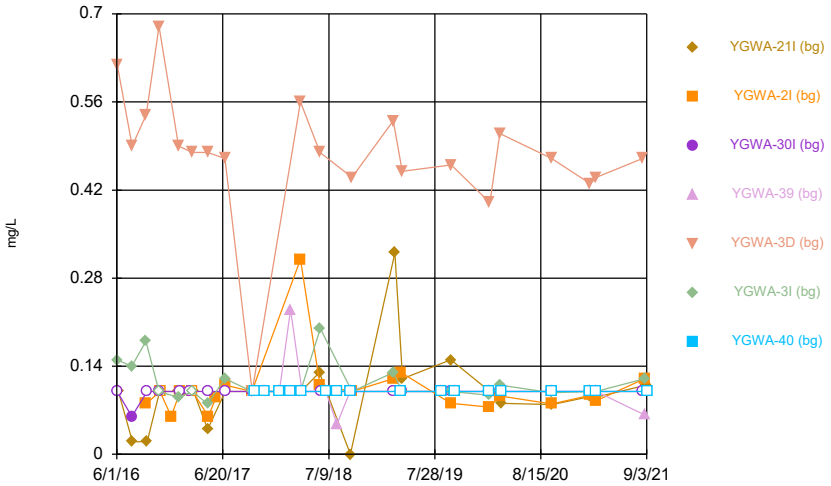
Time Series



Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

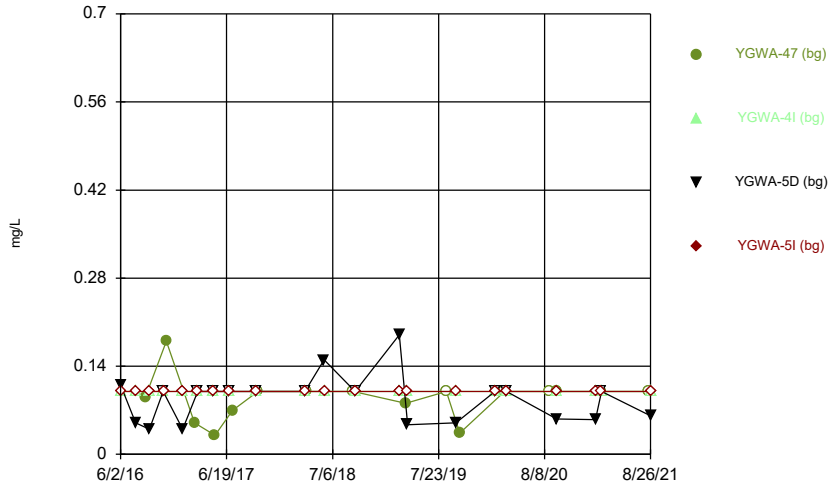
Time Series



Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

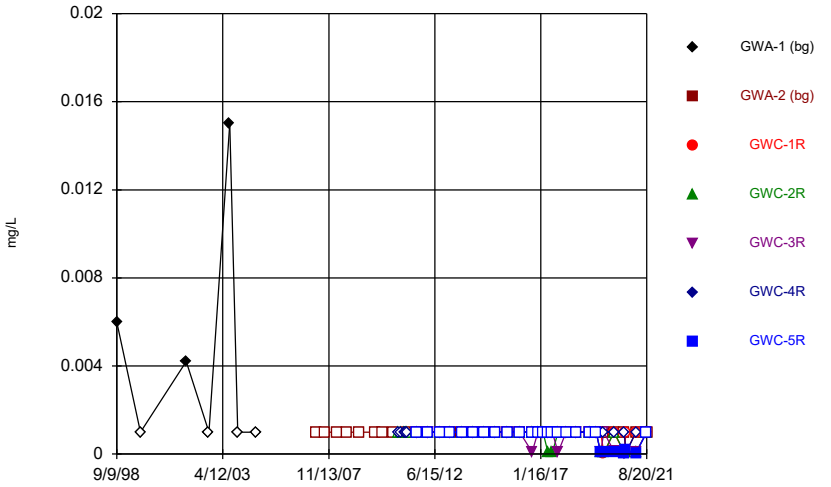
Time Series



Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

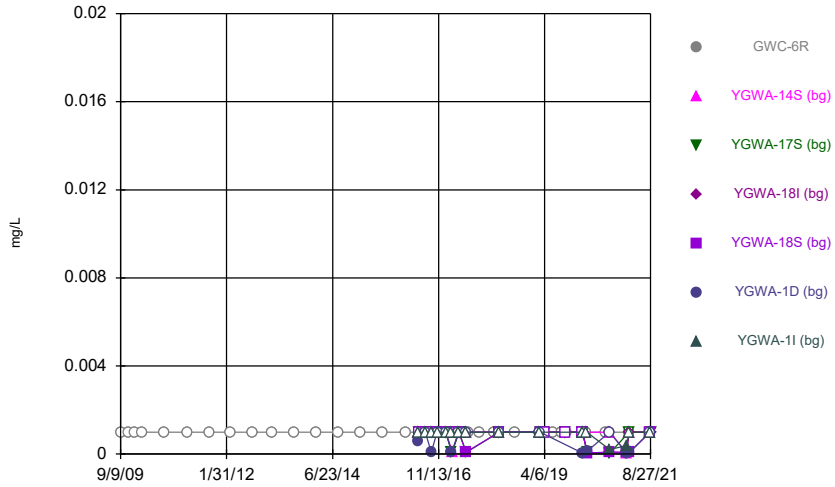
Time Series



Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

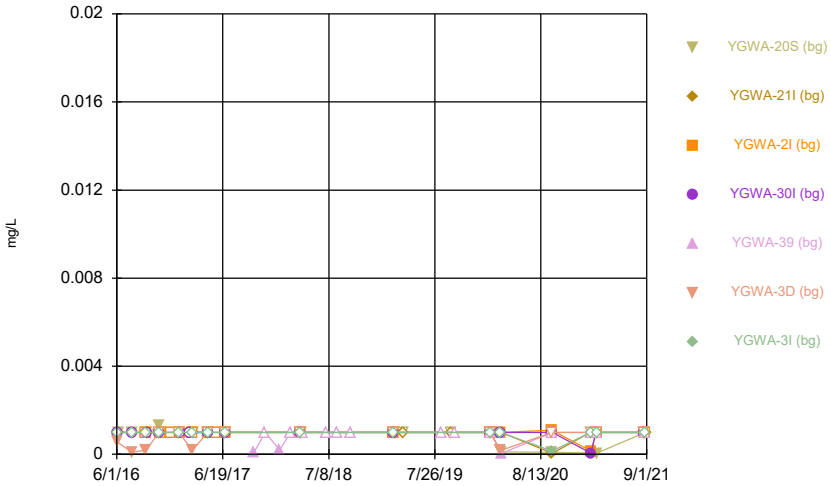
Time Series



Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

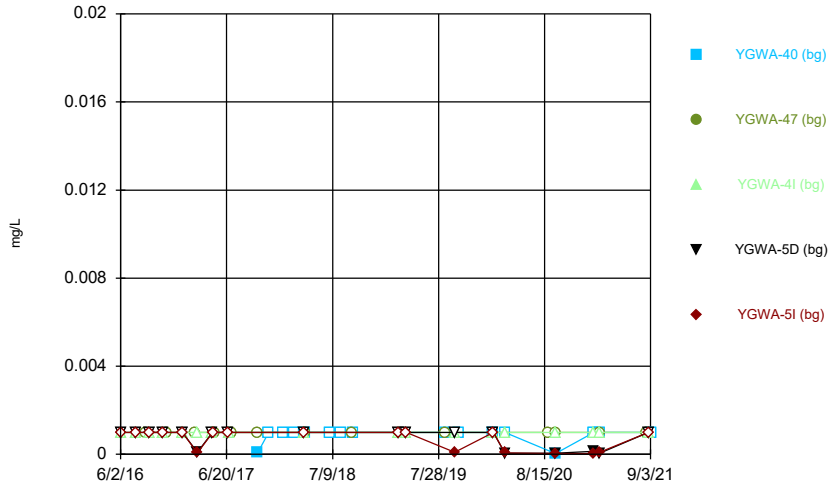
Time Series



Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

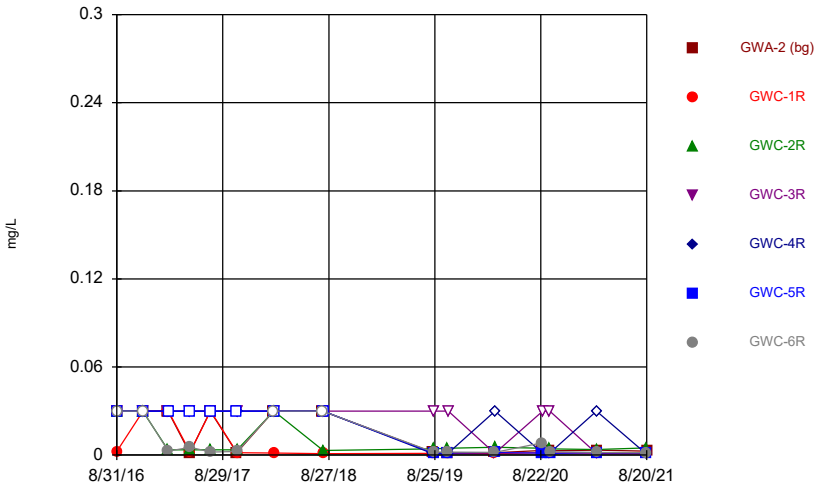
Time Series



Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

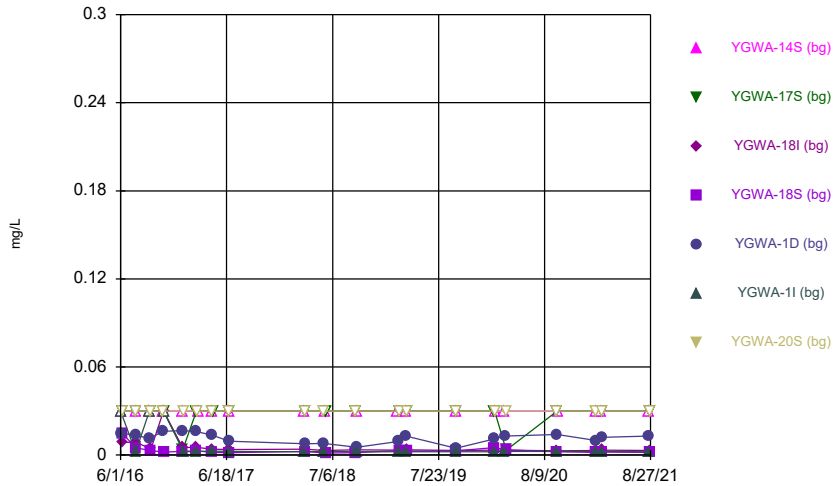
Time Series



Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

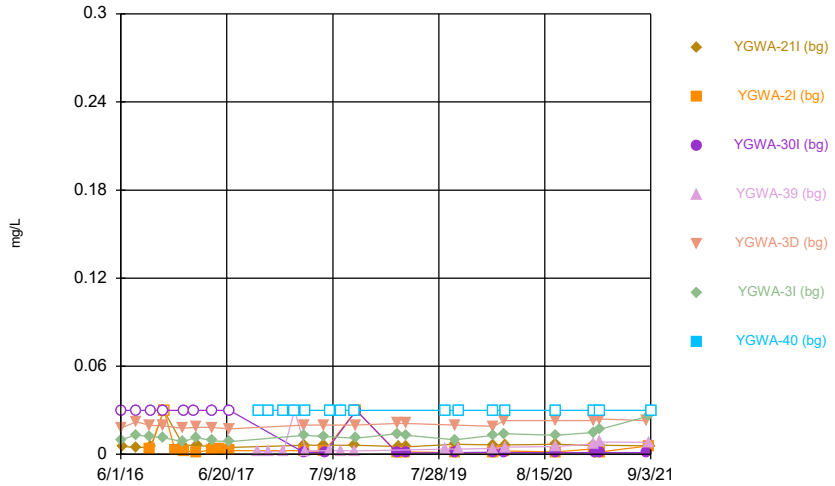
Time Series



Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

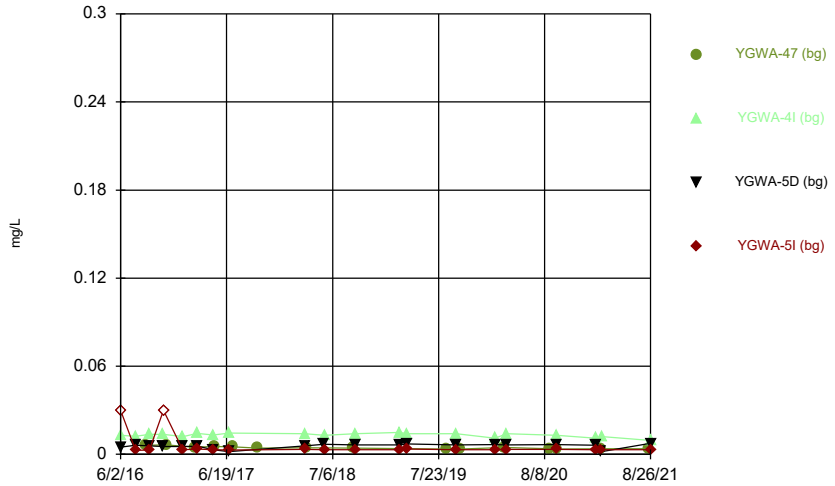
Time Series



Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

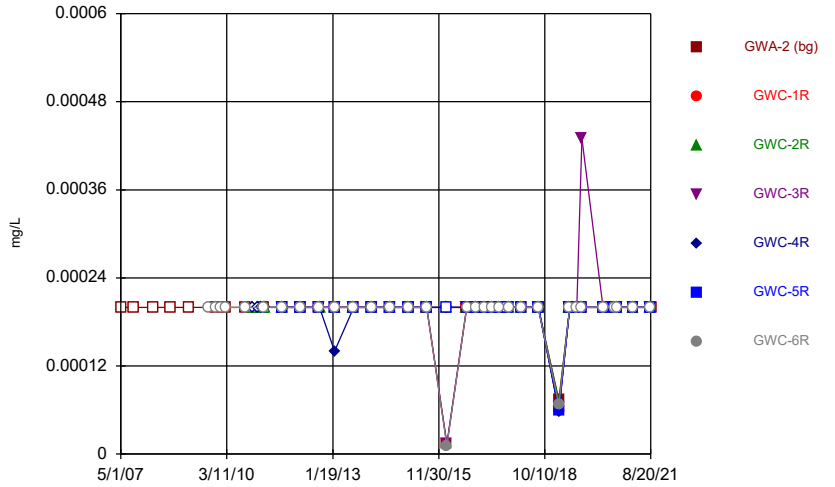
Time Series



Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

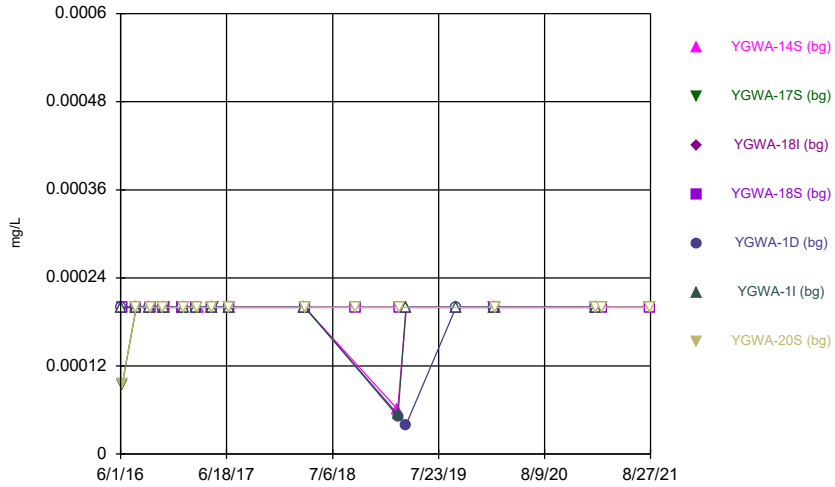
Time Series



Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

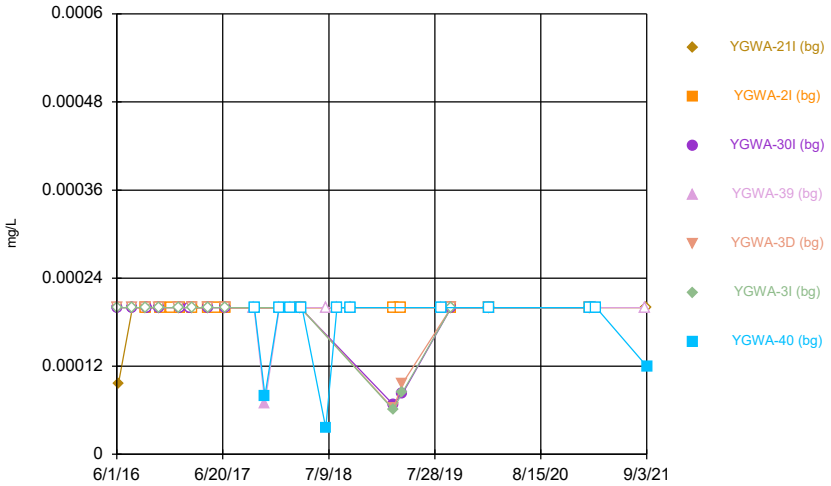
Time Series



Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

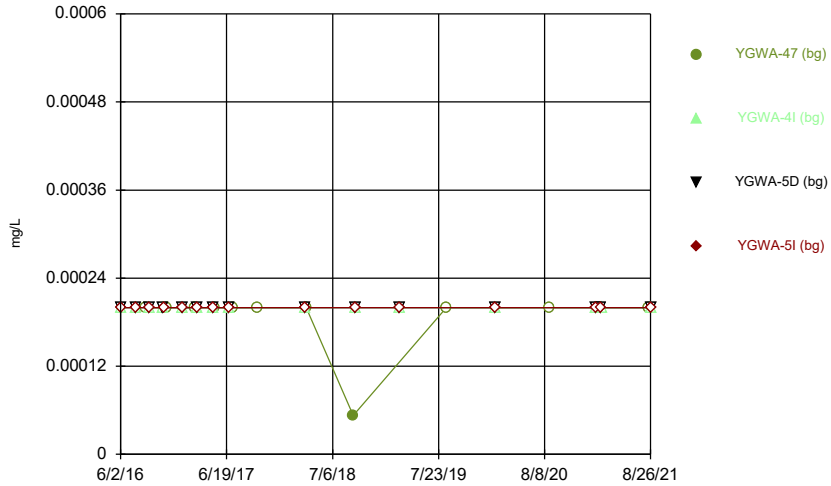
Time Series



Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

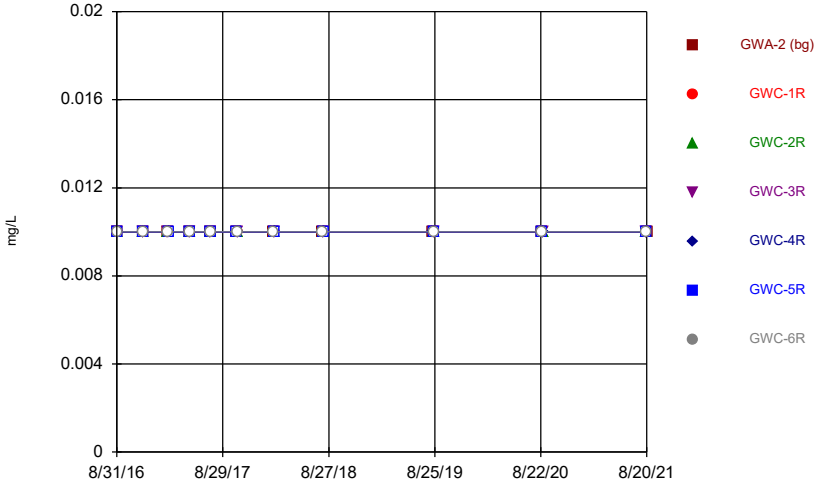
Time Series



Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

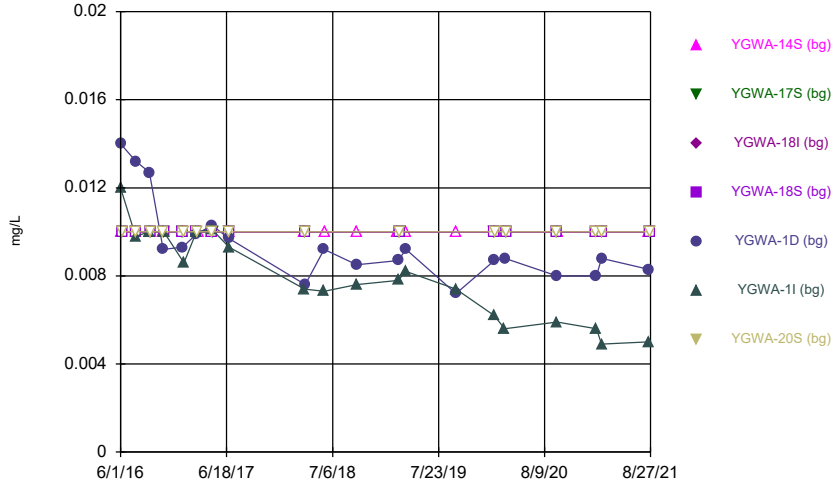
Time Series



Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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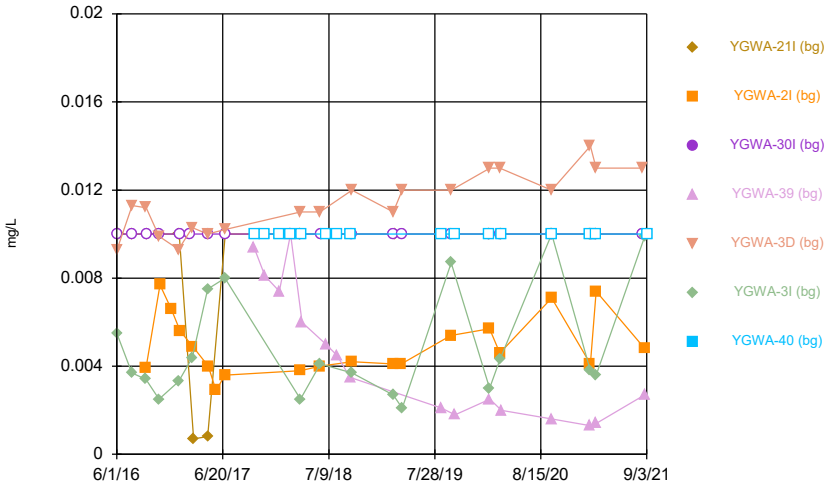
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

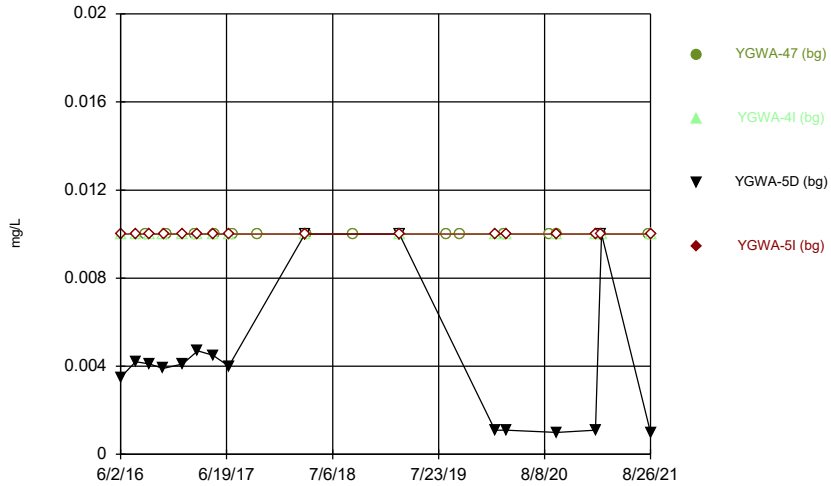
Time Series



Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

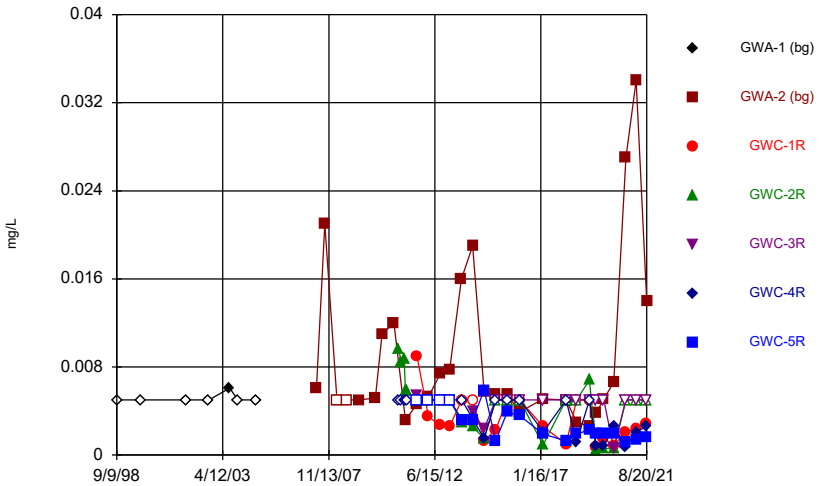
Time Series



Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

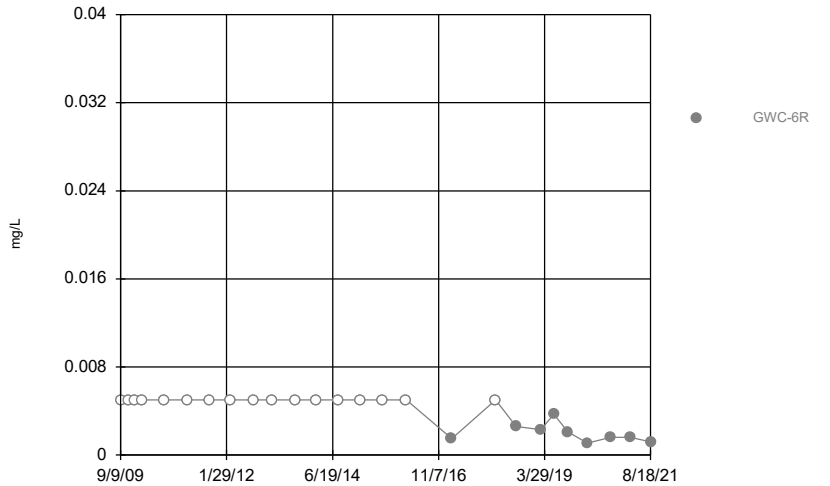
Time Series



Constituent: Nickel Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

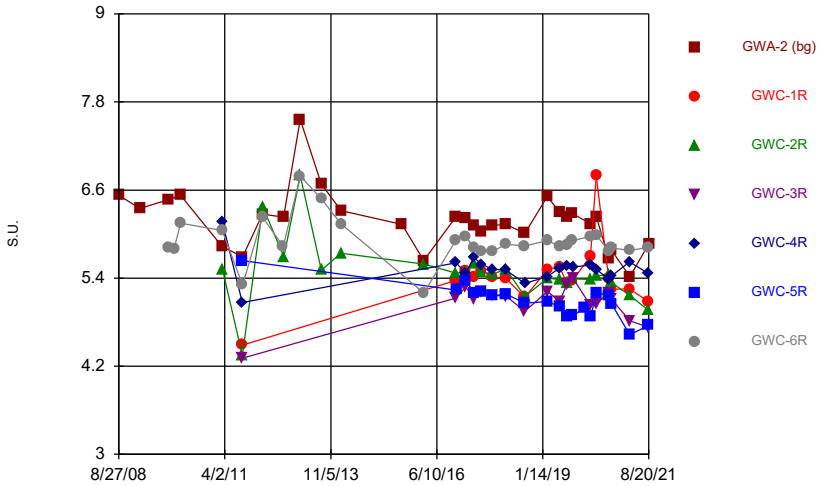
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

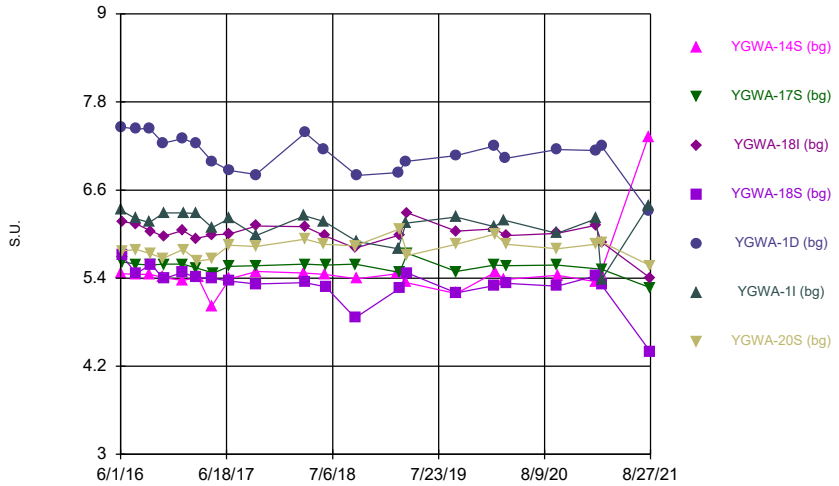
Time Series



Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

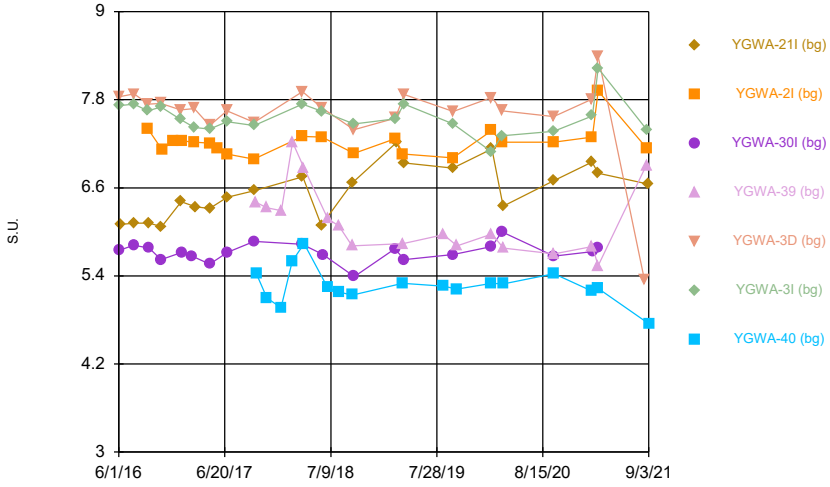
Time Series



Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

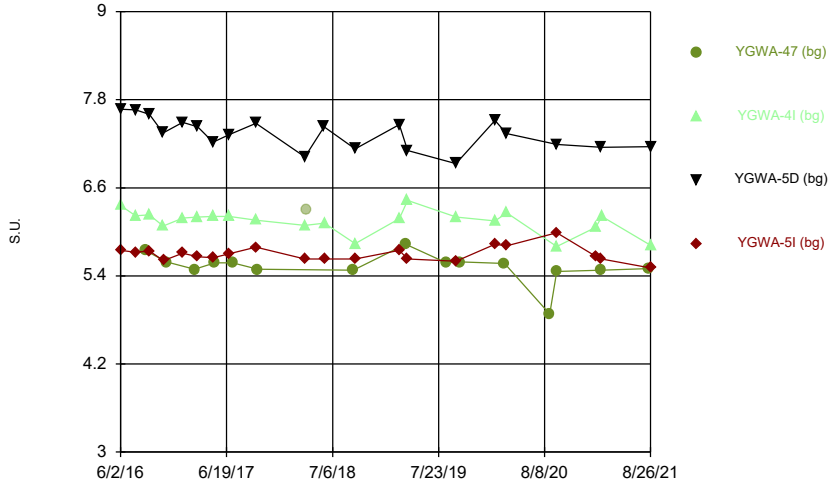
Time Series



Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

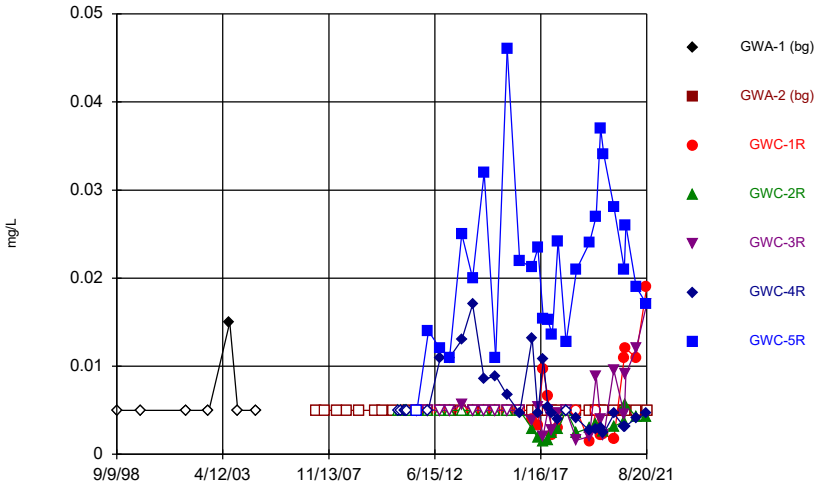
Time Series



Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

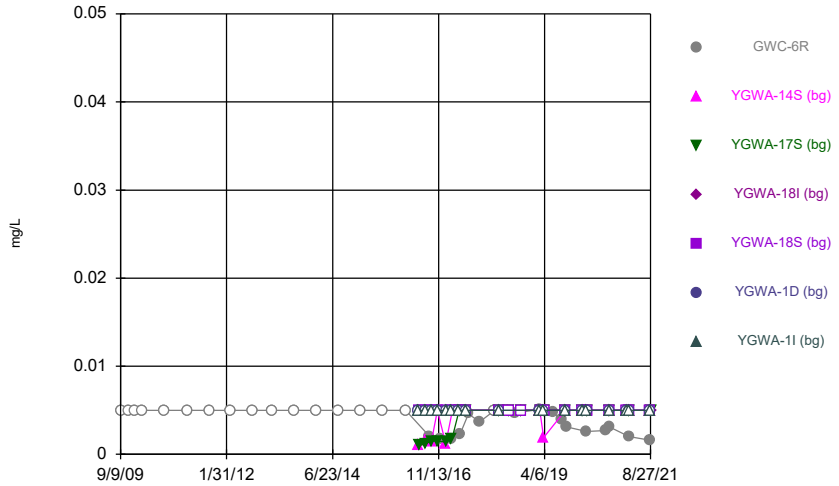
Time Series



Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

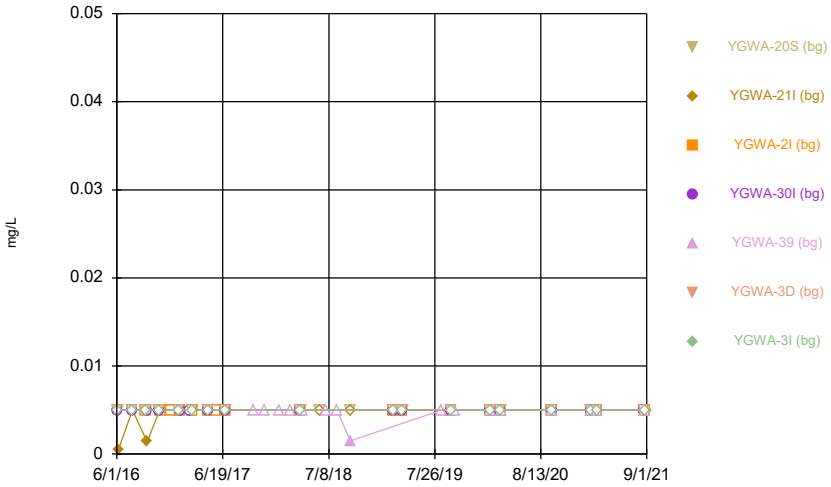
Time Series



Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

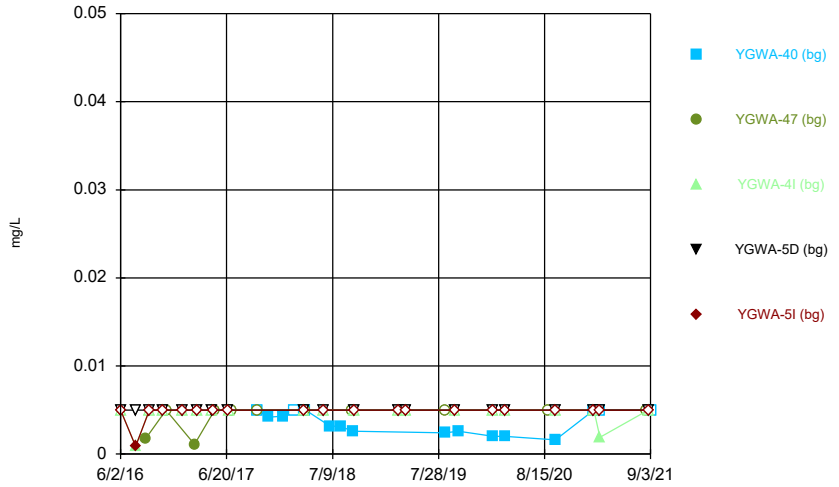
Time Series



Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

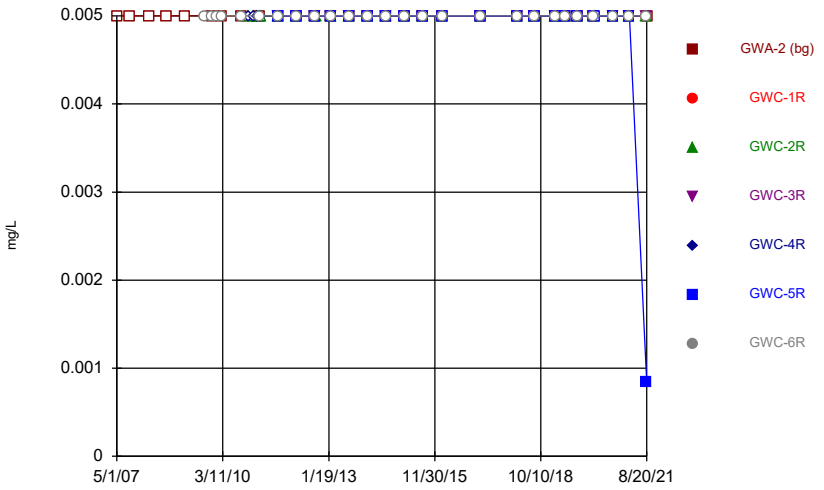
Time Series



Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

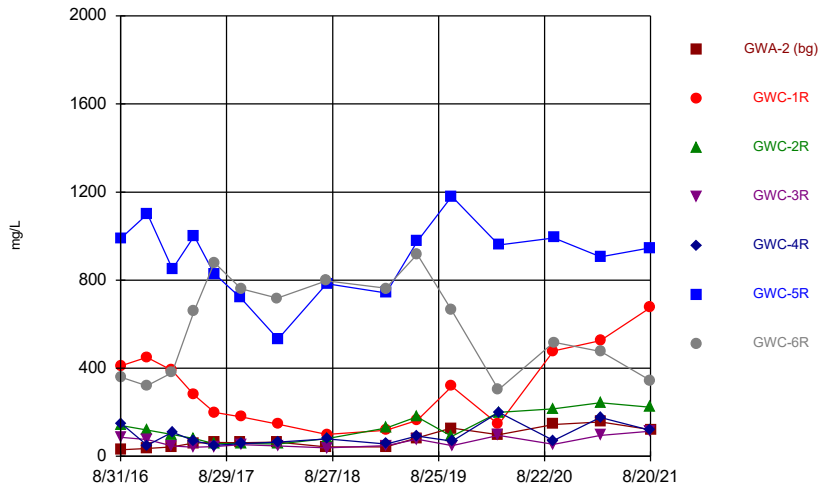
Time Series



Constituent: Silver Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

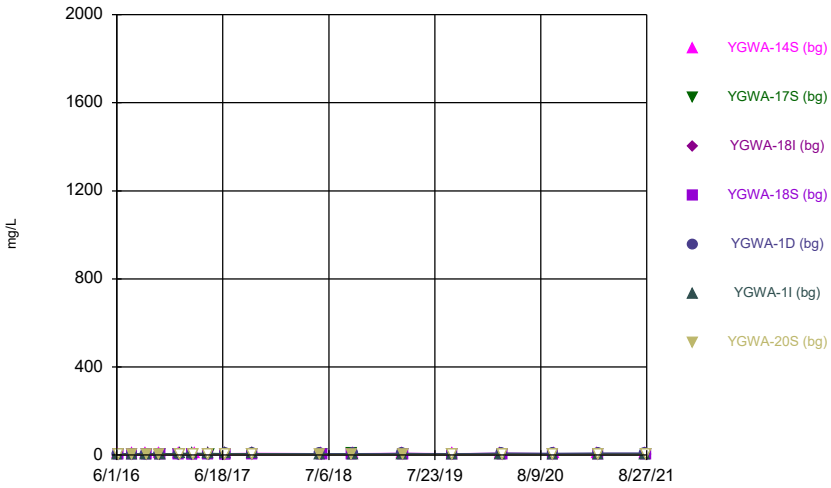
Time Series



Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

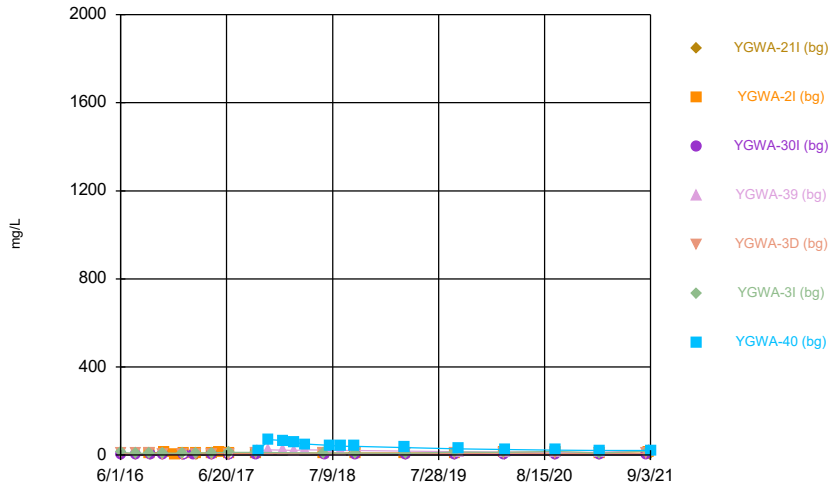
Time Series



Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

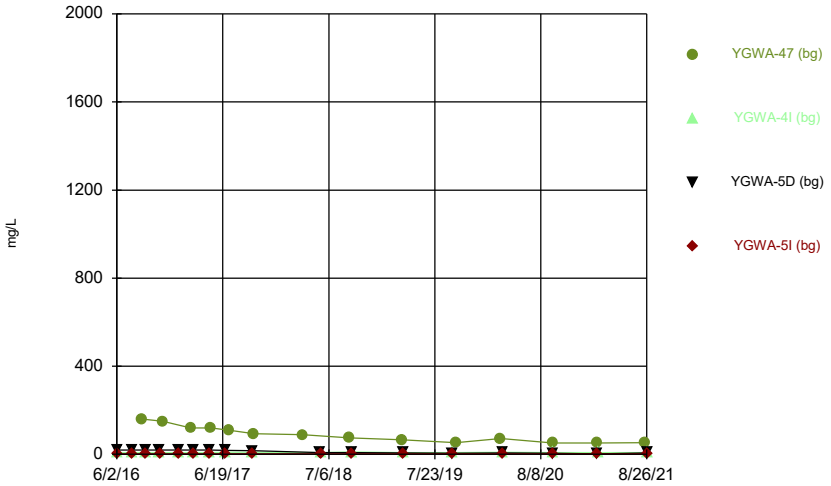
Time Series



Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

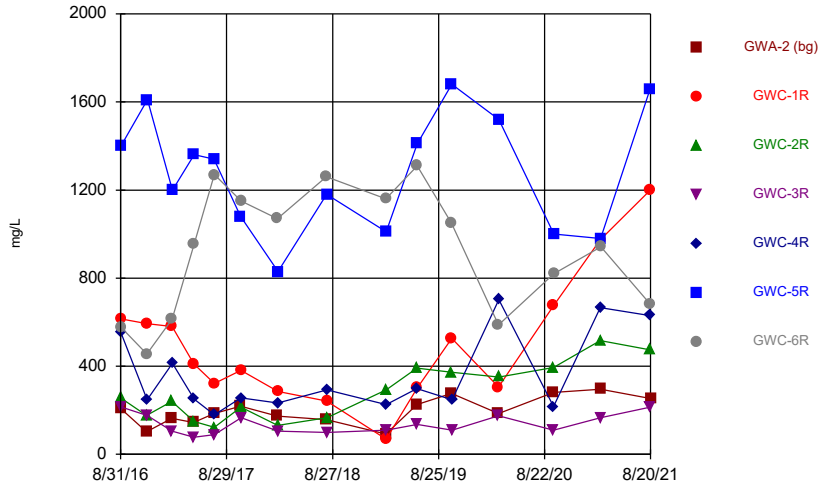
Time Series



Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

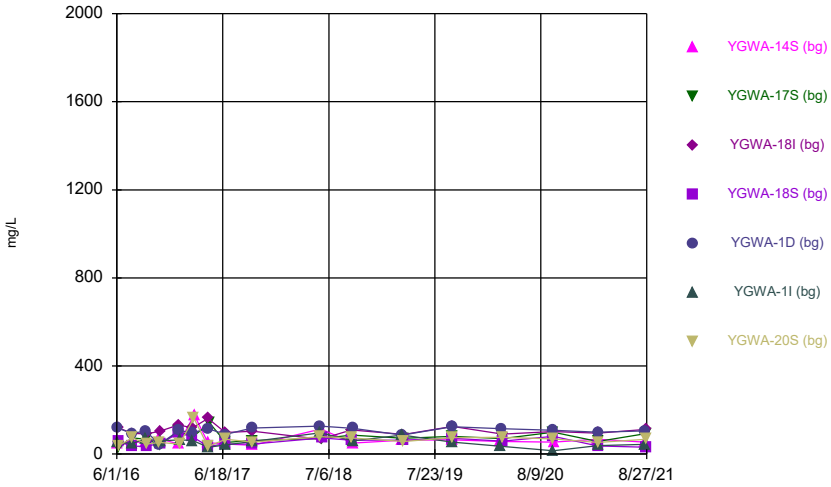
Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

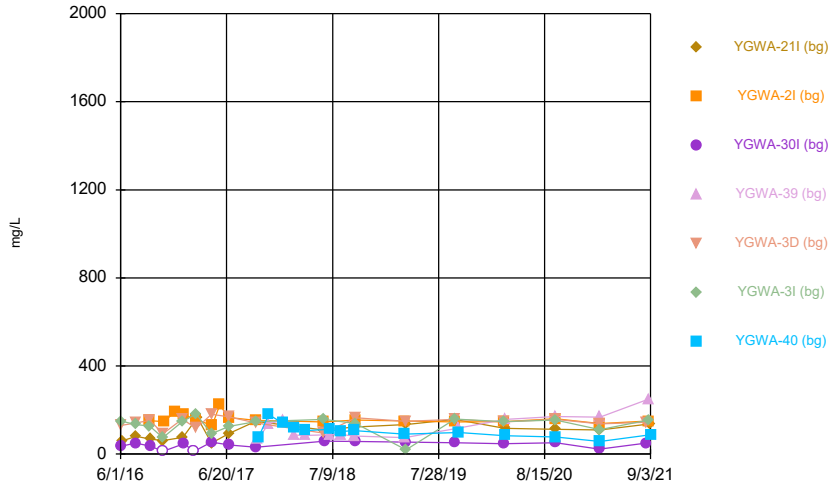
Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

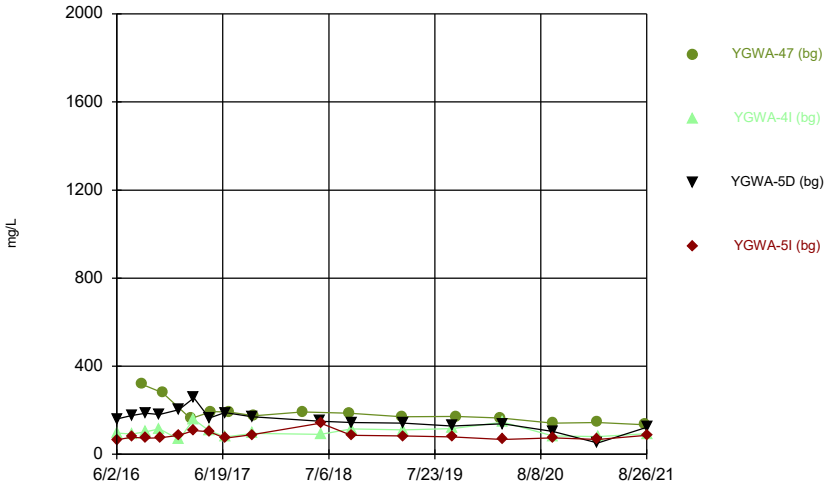
Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

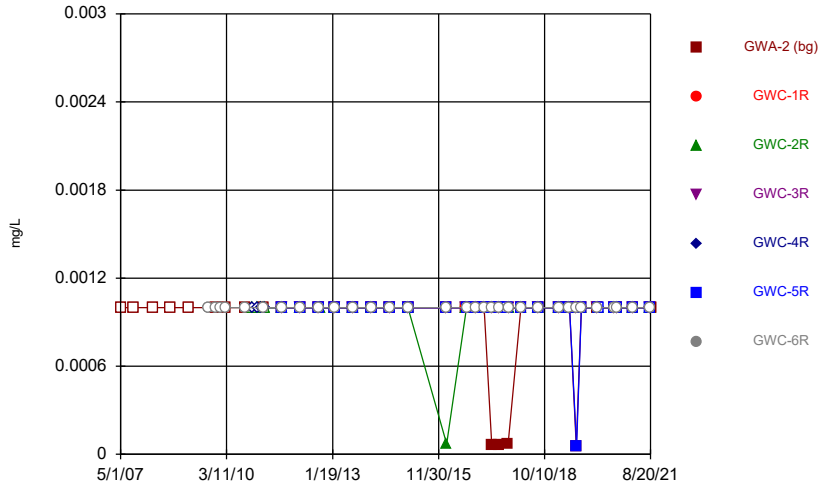
Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

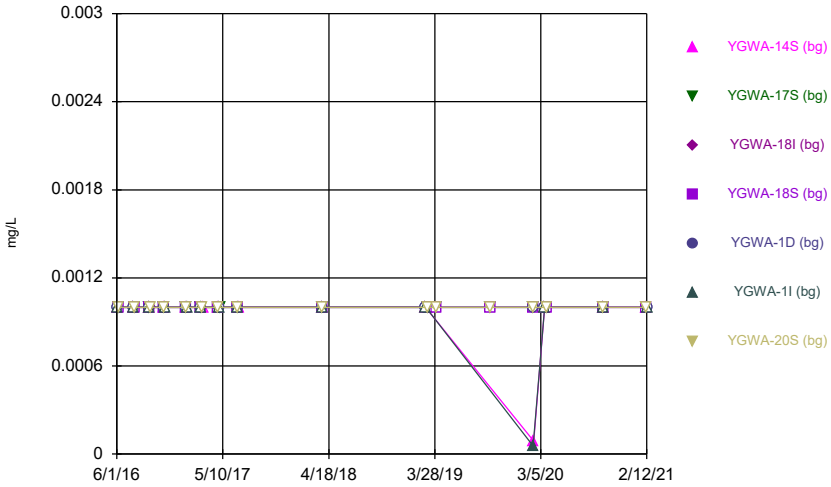
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

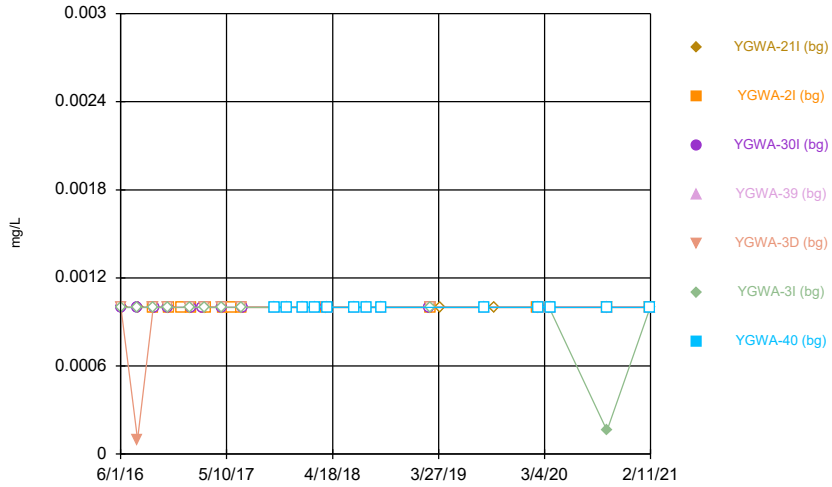
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

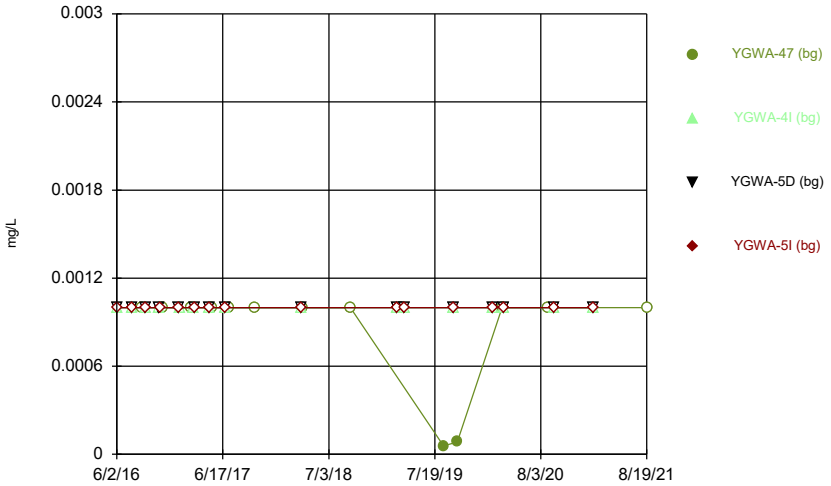
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

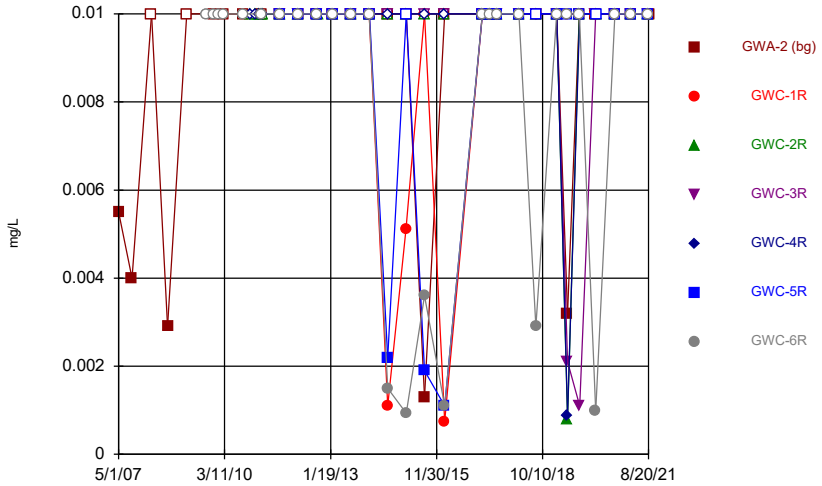
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

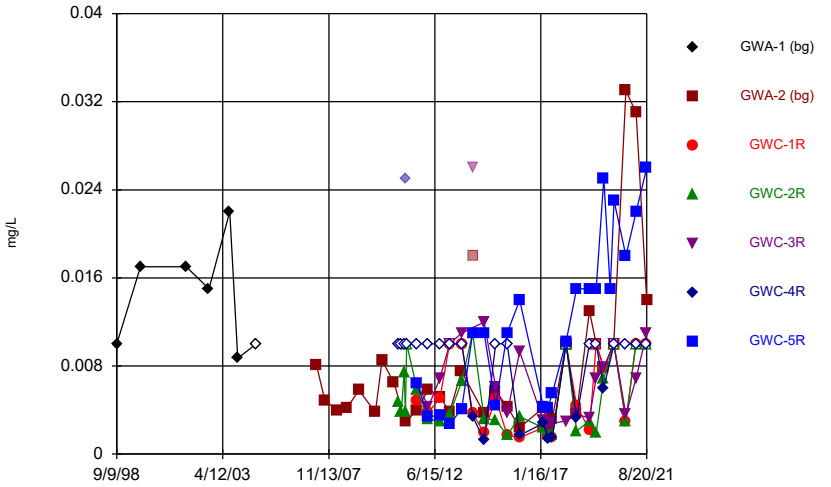
Time Series



Constituent: Vanadium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

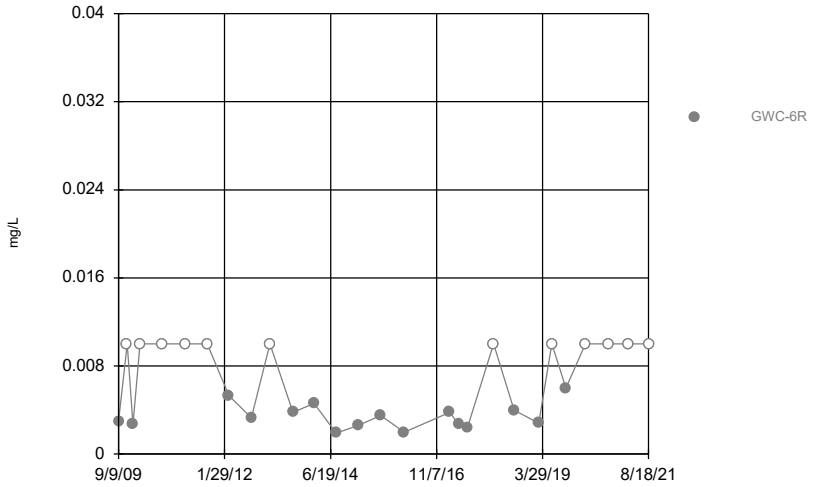
Time Series



Constituent: Zinc Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
5/1/2007	<0.003								
9/11/2007	<0.003								
3/20/2008	<0.003								
8/27/2008	<0.003								
3/3/2009	<0.003								
9/9/2009							<0.003		
11/18/2009	<0.003						<0.003		
1/5/2010							<0.003		
3/3/2010	<0.003						<0.003		
9/7/2010							<0.003		
9/8/2010	<0.003								
11/22/2010			<0.003		<0.003				
1/4/2011			<0.003		<0.003				
2/17/2011			<0.003		<0.003				
3/10/2011	<0.003						<0.003		
3/11/2011			<0.003		<0.003				
3/28/2011			<0.003		<0.003				
9/7/2011			<0.003	<0.003	<0.003	<0.003			
9/8/2011	<0.003	<0.003					<0.003		
3/4/2012					<0.003				
3/5/2012	<0.003	<0.003		<0.003		<0.003	<0.003		
3/6/2012			<0.003						
9/5/2012		<0.003		<0.003		<0.003	<0.003		
9/10/2012	<0.003				<0.003				
9/11/2012			<0.003						
2/5/2013		<0.003				<0.003	<0.003		
2/6/2013	<0.003		<0.003	<0.003	<0.003				
8/12/2013	<0.003								
8/13/2013		<0.003	<0.003	<0.003			<0.003		
8/14/2013					<0.003	<0.003			
2/4/2014		<0.003	<0.003		<0.003		<0.003		
2/5/2014	<0.003			<0.003		<0.003			
8/4/2014				<0.003	<0.003	<0.003			
8/5/2014	<0.003	<0.003	<0.003				<0.003		
2/2/2015		<0.003	<0.003		<0.003				
2/3/2015				<0.003		<0.003	<0.003		
2/4/2015	<0.003								
8/3/2015	<0.003			<0.003 (D)	<0.003 (D)	<0.003 (D)			
8/4/2015		<0.003 (D)	<0.003				<0.003		
2/16/2016	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003		
2/17/2016			<0.003						
6/2/2016								<0.003	
6/7/2016									<0.003
7/26/2016								0.0005 (J)	
7/27/2016									<0.003
8/31/2016	<0.003	<0.003	<0.003	<0.003					
9/1/2016					0.0014 (J)	<0.003	<0.003		
9/15/2016								<0.003	
9/16/2016									<0.003
11/2/2016								<0.003	
11/3/2016									<0.003
11/28/2016	0.0014 (J)		<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
11/29/2016		<0.003					<0.003		
11/30/2016				<0.003	<0.003				
12/1/2016						<0.003			
1/10/2017								<0.003	
1/11/2017									<0.003
2/22/2017	<0.003		<0.003						
2/23/2017		<0.003		<0.003			<0.003		
2/24/2017					<0.003	<0.003			
3/2/2017									<0.003
3/8/2017								<0.003	
4/26/2017								<0.003	
5/2/2017									<0.003
5/8/2017	<0.003								
5/9/2017		<0.003		<0.003					
5/10/2017			<0.003		<0.003	<0.003	<0.003		
6/29/2017									<0.003
6/30/2017								<0.003	
7/17/2017	<0.003					<0.003			
7/18/2017		<0.003	<0.003	<0.003	<0.003		<0.003		
10/16/2017	<0.003					<0.003			
10/17/2017		<0.003	<0.003		<0.003				
10/18/2017				<0.003			<0.003		
2/19/2018	<0.003						<0.003		
2/20/2018			<0.003		<0.003				
2/21/2018		<0.003		<0.003		<0.003			
3/27/2018								<0.003	
3/28/2018									<0.003
8/6/2018	<0.003						<0.003		
8/7/2018		<0.003		<0.003		<0.003			
8/8/2018			<0.003		<0.003				
2/25/2019	<0.003						<0.003		
2/26/2019		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
3/5/2019									<0.003
4/2/2019									<0.003
6/12/2019	<0.003		<0.003		0.00028 (J)				
6/13/2019		<0.003		<0.003		<0.003	<0.003		
8/19/2019	<0.003				<0.003				
8/20/2019		<0.003	<0.003				<0.003		
8/21/2019				<0.003		0.00054 (J)			
9/25/2019									<0.003
10/8/2019	<0.003						<0.003		
10/9/2019		<0.003	<0.003			<0.003			
10/10/2019				<0.003	<0.003				
2/11/2020									<0.003
2/12/2020								<0.003	
3/17/2020	<0.003	<0.003		<0.003			<0.003		
3/18/2020			<0.003		<0.003	<0.003		<0.003	
3/24/2020									<0.003
8/26/2020	0.00042 (J)								
8/27/2020		<0.003				<0.003	<0.003		
8/28/2020			<0.003	<0.003	<0.003				
9/22/2020	0.00044 (J)	<0.003	0.0017 (J)	<0.003	0.00053 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
9/23/2020						0.00031 (J)	<0.003		<0.003
9/25/2020								<0.003	
2/10/2021								<0.003	
3/1/2021		<0.003	<0.003		<0.003				
3/2/2021	<0.003			<0.003		<0.003		<0.003	
3/3/2021							<0.003		<0.003
8/18/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
8/19/2021								<0.003	
8/20/2021	<0.003								
8/27/2021									<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.003	<0.003					
6/2/2016								<0.003	
6/6/2016	<0.003	<0.003							
6/7/2016					<0.003	<0.003			
7/25/2016				<0.003				<0.003	
7/26/2016			0.001 (J)						
7/27/2016	0.0005 (J)	<0.003			<0.003				
7/28/2016						<0.003			
9/13/2016			0.001 (J)	<0.003					
9/14/2016							<0.003		
9/16/2016		<0.003							
9/19/2016	<0.003				<0.003	0.001 (J)		<0.003	
11/1/2016			0.0015 (J)					<0.003	
11/2/2016					<0.003				
11/3/2016	<0.003	<0.003				<0.003			
11/4/2016				<0.003			<0.003		
12/15/2016							0.0012 (J)		
1/11/2017	<0.003	<0.003	<0.003						
1/13/2017					<0.003	<0.003			
1/16/2017				<0.003			<0.003	<0.003	
2/21/2017								<0.003	
3/1/2017	<0.003	<0.003							
3/2/2017			0.0004 (J)	<0.003					
3/3/2017							<0.003		
3/6/2017					<0.003	0.0005 (J)			
4/26/2017	<0.003	<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		
6/29/2017					<0.003	<0.003			
6/30/2017								<0.003	
10/11/2017									0.0006 (J)
11/20/2017									<0.003
1/11/2018									<0.003
2/20/2018									<0.003
3/27/2018				<0.003				<0.003	
3/28/2018	<0.003	<0.003					<0.003		
3/29/2018			<0.003		<0.003	<0.003			
4/3/2018									<0.003
6/28/2018									<0.003
8/7/2018									<0.003
9/24/2018									<0.003
2/26/2019								<0.003	
2/27/2019			<0.003	<0.003			<0.003		
3/5/2019		<0.003			<0.003	0.0011 (J)			
3/6/2019	<0.003								
4/2/2019						0.0011 (J)			
4/3/2019	<0.003	<0.003			<0.003				
8/21/2019									<0.003
9/24/2019						0.0035			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
9/25/2019					<0.003				
9/26/2019	0.00056 (J)	<0.003							
2/10/2020			0.00088 (J)	<0.003					
2/11/2020	<0.003	<0.003					0.00036 (J)		
2/12/2020					<0.003	0.0015 (J)		<0.003	<0.003
3/18/2020				0.0004 (J)					
3/19/2020			<0.003				0.0003 (J)	<0.003	
3/24/2020	<0.003	<0.003			<0.003	0.0017 (J)			
3/25/2020									0.0014 (J)
9/23/2020	<0.003	<0.003	<0.003	<0.003			<0.003		
9/24/2020					<0.003	0.0047		<0.003	<0.003
2/9/2021	<0.003	<0.003			0.00032 (J)	0.0013 (J)			
2/10/2021							0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021			<0.003	<0.003					
3/1/2021								<0.003	
3/3/2021	<0.003	0.00067 (J)	<0.003	<0.003	<0.003		<0.003		
3/4/2021						0.0014 (J)			<0.003
8/19/2021			<0.003	<0.003				<0.003	
8/26/2021		<0.003							<0.003
8/27/2021	<0.003				<0.003		<0.003		
9/1/2021						<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.003					
6/2/2016	<0.003				<0.003	<0.003	<0.003
7/25/2016		<0.003					
7/26/2016	0.002 (J)				0.0003 (J)	<0.003	<0.003
8/30/2016				0.0028 (J)			
9/14/2016		<0.003			<0.003	<0.003	<0.003
9/15/2016	0.0027 (J)						
11/1/2016	<0.003	<0.003					
11/2/2016					<0.003	<0.003	
11/4/2016							<0.003
11/14/2016				<0.003			
1/11/2017	<0.003	<0.003					
1/12/2017						<0.003	<0.003
1/13/2017					<0.003		
2/24/2017				<0.003			
3/1/2017		<0.003					
3/2/2017	0.0008 (J)						
3/6/2017					<0.003		
3/7/2017						<0.003	<0.003
4/26/2017	<0.003	<0.003					
5/1/2017					<0.003	<0.003	
5/2/2017							<0.003
5/8/2017				0.0004 (J)			
6/27/2017						<0.003	<0.003
6/28/2017	<0.003	<0.003					
6/29/2017					<0.003		
7/11/2017				0.0006 (J)			
10/10/2017				<0.003			
10/12/2017			<0.003				
11/20/2017			<0.003				
1/10/2018			<0.003				
2/19/2018			<0.003				
3/28/2018	<0.003	<0.003					
3/29/2018					<0.003	<0.003	<0.003
4/2/2018				<0.003			
4/3/2018			<0.003				
6/28/2018			<0.003				
8/7/2018			<0.003				
9/19/2018				<0.003			
9/24/2018			<0.003				
2/27/2019	<0.003	<0.003					
3/4/2019					<0.003	<0.003	<0.003
4/3/2019					<0.003	<0.003	<0.003
8/20/2019				<0.003			
8/21/2019			<0.003				
9/24/2019						<0.003	<0.003
9/25/2019					<0.003		
2/11/2020		<0.003					
2/12/2020	<0.003		<0.003		<0.003	<0.003	<0.003
3/19/2020	0.00064 (J)	<0.003					
3/24/2020			<0.003			<0.003	<0.003
3/25/2020					<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/27/2020				0.00048 (J)			
9/22/2020				<0.003	<0.003	<0.003	<0.003
9/23/2020	<0.003	<0.003					
9/24/2020			<0.003				
2/8/2021						<0.003	<0.003
2/9/2021					<0.003		
2/10/2021	<0.003	<0.003	<0.003				
3/1/2021				0.00048 (J)			
3/2/2021						<0.003	<0.003
3/3/2021	<0.003	<0.003			<0.003		
3/4/2021			<0.003				
8/19/2021	<0.003			<0.003			
8/26/2021					<0.003	<0.003	<0.003
8/27/2021		<0.003					
9/3/2021			<0.003				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	<0.005								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	<0.005								
12/5/2003	<0.005								
9/22/2004	<0.005								
5/1/2007		<0.005							
9/11/2007		<0.005							
3/20/2008		<0.005							
8/27/2008		<0.005							
3/3/2009		<0.005							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		<0.005			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005						<0.005	
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011		<0.005	<0.005					<0.005	
3/4/2012						<0.005			
3/5/2012		<0.005	<0.005		<0.005		<0.005	<0.005	
3/6/2012				<0.005					
9/5/2012			<0.005		<0.005		<0.005	<0.005	
9/10/2012		<0.005				<0.005			
9/11/2012				<0.005					
2/5/2013			<0.005				<0.005	<0.005	
2/6/2013		<0.005		<0.005	<0.005	<0.005			
8/12/2013		<0.005							
8/13/2013			<0.005	<0.005	<0.005			<0.005	
8/14/2013						<0.005	<0.005		
2/4/2014			<0.005	<0.005		<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005		
8/4/2014					<0.005	<0.005	<0.005		
8/5/2014		<0.005	<0.005	<0.005				<0.005	
2/2/2015			<0.005	<0.005		<0.005			
2/3/2015					<0.005		<0.005	<0.005	
2/4/2015		<0.005							
8/3/2015		<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015			<0.005 (D)	<0.005				<0.005	
2/16/2016		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/17/2016				<0.005					
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016		<0.005	<0.005	<0.005	<0.005				
9/1/2016						<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									<0.005
11/2/2016									<0.005
11/28/2016		<0.005		<0.005					
11/29/2016			<0.005					<0.005	
11/30/2016					<0.005	<0.005			
12/1/2016							<0.005		
1/10/2017									<0.005
2/22/2017		<0.005		<0.005					
2/23/2017			<0.005		<0.005			<0.005	
2/24/2017						<0.005	<0.005		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		<0.005							
5/9/2017			0.0005 (J)		<0.005				
5/10/2017				<0.005		<0.005	0.0011 (J)	0.0007 (J)	
6/30/2017									<0.005
7/17/2017		<0.005					0.0013 (J)		
7/18/2017			<0.005	<0.005	<0.005	<0.005		0.001 (J)	
10/16/2017		<0.005					0.0011 (J)		
10/17/2017			0.0009 (J)	<0.005		<0.005			
10/18/2017					<0.005			0.0011 (J)	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		0.00091 (J)		
3/27/2018									<0.005
6/8/2018									<0.005
8/6/2018		<0.005						0.0023 (J)	
8/7/2018			<0.005		<0.005		0.0021 (J)		
8/8/2018				<0.005		<0.005			
10/1/2018									<0.005
2/25/2019		<0.005						0.00073 (J)	
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.00069 (J)		<0.005
3/29/2019									<0.005
6/12/2019		0.00038 (J)		<0.005		0.00037 (J)			
6/13/2019			<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)	
8/19/2019		0.00095 (J)				0.00059 (J)			
8/20/2019			0.00044 (J)	0.00075 (J)				0.00072 (J)	
8/21/2019					0.00061 (J)		0.00094 (J)		
9/25/2019									<0.005
10/8/2019		<0.005						0.00056 (J)	
10/9/2019			<0.005	<0.005			0.0012 (J)		
10/10/2019					<0.005	<0.005			
2/12/2020									<0.005
3/17/2020		<0.005	<0.005		0.0016 (J)			<0.005	
3/18/2020				<0.005		<0.005	0.0008 (J)		<0.005
8/26/2020		<0.005							
8/27/2020			0.0011 (J)				0.0016 (J)	0.0011 (J)	
8/28/2020				<0.005	<0.005	<0.005			
9/22/2020		<0.005	<0.005	<0.005	<0.005	<0.005			
9/23/2020							0.00092 (J)	<0.005	
9/25/2020									<0.005
2/10/2021									<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005			
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)		<0.005
3/3/2021								<0.005	
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.0021	<0.005				
6/2/2016									<0.005
6/6/2016		<0.005	<0.005						
6/7/2016	<0.005					<0.005	<0.005		
7/25/2016					<0.005				<0.005
7/26/2016				0.0016 (J)					
7/27/2016	<0.005	<0.005	<0.005			<0.005			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005				<0.005	<0.005		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				<0.005		
11/4/2016					<0.005			0.0017 (J)	
12/15/2016								0.0023 (J)	
1/11/2017	<0.005	<0.005	<0.005	0.0017 (J)					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			0.0018 (J)	<0.005
2/21/2017									<0.005
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005			0.0014 (J)	<0.005				
3/3/2017								0.0016 (J)	
3/6/2017						<0.005	0.0017 (J)		
4/26/2017		<0.005	<0.005			<0.005	<0.005		<0.005
4/27/2017				0.0018 (J)	<0.005				
4/28/2017								0.002 (J)	
5/2/2017	<0.005								
5/26/2017								0.0005 (J)	
6/27/2017				0.0018 (J)	<0.005				
6/28/2017		<0.005	<0.005					0.0016 (J)	
6/29/2017	<0.005					<0.005	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	0.00061 (J)					0.0013 (J)	
3/29/2018				0.0017 (J)		<0.005	0.0015 (J)		
6/5/2018				0.0013 (J)			0.0013 (J)		
6/6/2018					<0.005	<0.005			
6/7/2018		0.00066 (J)						0.00082 (J)	
6/11/2018	<0.005		<0.005						<0.005
9/25/2018	<0.005	<0.005	<0.005			<0.005	0.0022 (J)		
10/1/2018				0.0016 (J)	<0.005			0.0011 (J)	
10/2/2018									<0.005
2/26/2019									<0.005
2/27/2019				0.0015 (J)	<0.005			0.001 (J)	
3/5/2019	<0.005		<0.005			<0.005	0.0013 (J)		
3/6/2019		<0.005							
3/28/2019				0.00072 (J)	<0.005				
3/29/2019								0.00063 (J)	
4/1/2019									<0.005
4/2/2019	<0.005						0.00096 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				0.0014 (J)	<0.005		0.0026 (J)	<0.005	
9/25/2019	<0.005					<0.005			<0.005
9/26/2019		<0.005	<0.005						
2/10/2020				0.0026 (J)	0.0005 (J)				
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)					0.0044 (J)	
2/12/2020						<0.005	0.0025 (J)		0.0032 (J)
3/18/2020					<0.005				
3/19/2020				0.00095 (J)				0.00066 (J)	<0.005
3/24/2020	<0.005	<0.005	<0.005			<0.005	0.0013 (J)		
9/23/2020	<0.005	<0.005	<0.005	0.0011 (J)	<0.005			0.001 (J)	
9/24/2020						<0.005	0.0014 (J)		<0.005
2/9/2021		<0.005	<0.005			<0.005	0.001 (J)		
2/10/2021								<0.005	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		0.00098 (J)	
3/4/2021							0.00078 (J)		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				<0.005	0.00071 (J)	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				<0.005	0.001 (J)	<0.005
8/30/2016					<0.005			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					<0.005			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					<0.005			
3/1/2017			0.0004 (J)					
3/2/2017		<0.005						
3/6/2017						<0.005		
3/7/2017							0.0012 (J)	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	<0.005	
5/2/2017								<0.005
5/8/2017					<0.005			
6/27/2017							0.0019 (J)	<0.005
6/28/2017		0.0007 (J)	0.0011 (J)					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					0.0007 (J)			
10/11/2017	0.0009 (J)							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	0.0006 (J)	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							0.0013 (J)	
6/7/2018		<0.005				0.00059 (J)		<0.005
6/8/2018			<0.005					
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					0.00072 (J)			
9/24/2018	<0.005			<0.005				
9/26/2018						<0.005	0.0014 (J)	<0.005
10/1/2018		<0.005	<0.005					
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					<0.005			
8/21/2019	0.00058 (J)			<0.005				
9/24/2019							0.00043 (J)	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/8/2019					<0.005			
10/9/2019	0.00063 (J)			<0.005				
2/11/2020			0.0041 (J)					
2/12/2020	0.00058 (J)	0.0038 (J)		0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020					<0.005			
3/19/2020		<0.005	<0.005					
3/24/2020				<0.005			0.00065 (J)	<0.005
3/25/2020	0.0012 (J)					<0.005		
8/27/2020					<0.005			
9/22/2020					<0.005	<0.005	0.001 (J)	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	0.00094 (J)	0.00078 (J)	<0.005				
3/1/2021					<0.005			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			<0.005		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	0.0016 (J)	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.006								
9/20/1999	0.015								
9/12/2001	0.018								
9/3/2002	0.023								
7/29/2003	0.02								
12/5/2003	0.012								
9/22/2004	0.03								
5/1/2007		0.032							
9/11/2007		0.017							
3/20/2008		0.025							
8/27/2008		0.041							
3/3/2009		0.053							
9/9/2009								0.025	
11/18/2009		0.05						0.025	
1/5/2010								0.018	
3/3/2010		0.061						0.022	
9/7/2010								0.019	
9/8/2010		0.071							
11/22/2010				0.12		0.03			
1/4/2011				0.1		0.065			
2/17/2011				0.1		0.061			
3/10/2011		0.057						0.017	
3/11/2011				0.05		0.066			
3/28/2011				0.087		0.04			
9/7/2011				0.065	0.025	0.041	0.02		
9/8/2011		0.057	0.086					0.019	
3/4/2012						0.046			
3/5/2012		0.061	0.044		0.014		0.048	0.027	
3/6/2012				0.049					
9/5/2012			0.034		0.0095		0.07	0.04	
9/10/2012		0.055				0.084			
9/11/2012				0.045					
2/5/2013			0.03				0.068	0.056	
2/6/2013		0.061		0.05	0.0094	0.042			
8/12/2013		0.055							
8/13/2013			0.027	0.13	0.13			0.07	
8/14/2013						0.042	0.036		
2/4/2014			0.037	0.08		0.046		0.051	
2/5/2014		0.063			0.066		0.044		
8/4/2014					0.043	0.027	0.058		
8/5/2014		0.038	0.048	0.068				0.041	
2/2/2015			0.069	0.066		0.02			
2/3/2015					0.031		0.033	0.04	
2/4/2015		0.039							
8/3/2015		0.031			0.039 (D)	0.017 (D)	0.037 (D)		
8/4/2015			0.023 (D)	0.053				0.042	
2/16/2016		0.045	0.044		0.038	0.032	0.04	0.068	
2/17/2016				0.059					
6/2/2016									0.0081
7/26/2016									0.0082 (J)
8/31/2016		0.0542	0.0711	0.0601	0.0286				
9/1/2016						0.0377	0.0345	0.0536	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									0.0087 (J)
11/2/2016									0.0082 (J)
11/28/2016		0.0529		0.0562					
11/29/2016			0.0754					0.0459	
11/30/2016					0.0258	0.0148			
12/1/2016							0.0342		
1/10/2017									0.0086 (J)
2/22/2017		0.0607		0.0481					
2/23/2017			0.0646		0.0278			0.0581	
2/24/2017						0.029	0.0347		
3/8/2017									0.0088 (J)
4/26/2017									0.0085 (J)
5/8/2017		0.065							
5/9/2017			0.0463		0.0308				
5/10/2017				0.0563		0.0182	0.0363	0.0873	
6/30/2017									0.0081 (J)
7/17/2017		0.06					0.0274		
7/18/2017			0.039	0.049	0.0407	0.0187		0.0994	
10/16/2017		0.0542					0.0151		
10/17/2017			0.0349	0.047		0.0157			
10/18/2017					0.049			0.0757	
2/19/2018		0.0533						0.0703	
2/20/2018				0.0467		0.0151			
2/21/2018			0.0322		0.0285		0.0174		
3/27/2018									<0.01
6/8/2018									0.007 (J)
8/6/2018		0.044						0.076	
8/7/2018			0.025		0.029		0.015		
8/8/2018				0.049		0.019			
10/1/2018									0.007 (J)
2/25/2019		0.045						0.045	
2/26/2019			0.028	0.056	0.026	0.017	0.014		0.0067 (J)
3/29/2019									0.0066 (J)
6/12/2019		0.063		0.046		0.017			
6/13/2019			0.033		0.021		0.014	0.062	
8/19/2019		0.065				0.02			
8/20/2019			0.07	0.05				0.06	
8/21/2019					0.02		0.014		
9/25/2019									0.0071 (J)
10/8/2019		0.058						0.054	
10/9/2019			0.054	0.045			0.015		
10/10/2019					0.018	0.018			
2/12/2020									0.007 (J)
3/17/2020		0.047	0.031		0.024			0.031	
3/18/2020				0.04		0.038	0.015		0.0076 (J)
8/26/2020		0.044							
8/27/2020			0.072				0.013	0.045	
8/28/2020				0.044	0.014	0.026			
9/22/2020		0.045	0.068	0.04	0.014	0.026			
9/23/2020							0.012	0.044	
9/25/2020									0.0073 (J)
2/10/2021									0.0078 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.063	0.043		0.035			
3/2/2021		0.039			0.015		0.011		0.0076
3/3/2021								0.043	
8/18/2021			0.076	0.033	0.014	0.04	0.013	0.035	
8/19/2021									0.0077
8/20/2021		0.036							

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.008	0.012				
6/2/2016									0.0064
6/6/2016		0.028	0.019						
6/7/2016	0.012					0.014	0.0058		
7/25/2016					0.0091 (J)				0.0071 (J)
7/26/2016				0.006 (J)					
7/27/2016	0.0126	0.0294	0.0167			0.0141			
7/28/2016							0.0068 (J)		
9/13/2016				0.0084 (J)	0.008 (J)				
9/14/2016								0.0037 (J)	
9/16/2016	0.0127		0.0168						
9/19/2016		0.0247				0.0155	0.0071 (J)		0.0069 (J)
11/1/2016				0.0062 (J)					0.007 (J)
11/2/2016						0.0157			
11/3/2016	0.0128	0.0248	0.0159				0.0092 (J)		
11/4/2016					0.0067 (J)			0.0059 (J)	
12/15/2016								0.0056 (J)	
1/11/2017	0.0142	0.0266	0.0162	0.0069 (J)					
1/13/2017						0.0158	0.0105		
1/16/2017					0.0096 (J)			0.0049 (J)	0.0071 (J)
2/21/2017									0.0077 (J)
3/1/2017		0.0275	0.0195						
3/2/2017	0.0155			0.0071 (J)	0.0112				
3/3/2017								0.0046 (J)	
3/6/2017						0.0163	0.0105		
4/26/2017		0.024	0.0182			0.0177	0.011		0.0074 (J)
4/27/2017				0.0064 (J)	0.0106				
4/28/2017								0.0039 (J)	
5/2/2017	0.0138								
5/26/2017								0.0034 (J)	
6/27/2017				0.0054 (J)	0.0092 (J)				
6/28/2017		0.0237	0.018					0.003 (J)	
6/29/2017	0.0128					0.017	0.0109		
6/30/2017									0.0076 (J)
3/27/2018					<0.01				<0.01
3/28/2018	0.014	0.024	0.021					<0.01	
3/29/2018				<0.01		0.014	<0.01		
6/5/2018				0.0069 (J)			0.011		
6/6/2018					0.0082 (J)	0.015			
6/7/2018		0.023						0.0037 (J)	
6/11/2018	0.013		0.019						0.007 (J)
9/25/2018	0.014	0.023	0.019			0.015	0.011		
10/1/2018				0.0062 (J)	0.0084 (J)			0.0038 (J)	
10/2/2018									0.0069 (J)
2/26/2019									0.007 (J)
2/27/2019				0.0074 (J)	0.008 (J)			0.0035 (J)	
3/5/2019	0.015		0.02			0.016	0.011		
3/6/2019		0.024							
3/28/2019				0.0082 (J)	0.0082 (J)				
3/29/2019								0.0039 (J)	
4/1/2019									0.0072 (J)
4/2/2019	0.016						0.011		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		0.025	0.017			0.018			
9/24/2019				0.0072 (J)	0.0086 (J)		0.011	0.0038 (J)	
9/25/2019	0.015					0.014			0.0066 (J)
9/26/2019		0.021	0.017						
2/10/2020				0.0066 (J)	0.0091 (J)				
2/11/2020	0.015	0.022	0.019					0.0036 (J)	
2/12/2020						0.014	0.011		0.0073 (J)
3/18/2020					0.0084 (J)				
3/19/2020				0.0076 (J)				0.0036 (J)	0.0074 (J)
3/24/2020	0.015	0.021	0.017			0.015	0.011		
9/23/2020	0.015	0.021	0.016	0.0068 (J)	0.0079 (J)			0.0039 (J)	
9/24/2020						0.015	0.01		0.0062 (J)
2/9/2021		0.023	0.017			0.015	0.011		
2/10/2021								0.0032 (J)	
2/11/2021									0.0077 (J)
2/12/2021				0.0057 (J)	0.009 (J)				
3/1/2021									0.007
3/3/2021	0.017	0.023	0.017	0.0068	0.0094	0.015		0.0041 (J)	
3/4/2021							0.011		
8/19/2021				0.0065	0.0079				0.0071
8/26/2021			0.015						
8/27/2021	0.016	0.02				0.013		0.003 (J)	
9/1/2021							0.0099		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			0.0038					
6/2/2016		0.01				0.013	0.0084	0.019
7/25/2016			0.0031 (J)					
7/26/2016		0.0088 (J)				0.0158	0.01	0.0179
8/30/2016					0.0413			
9/14/2016			0.0027 (J)			0.0143	0.0085 (J)	0.0181
9/15/2016		0.009 (J)						
11/1/2016		0.0079 (J)	0.0027 (J)					
11/2/2016						0.0148	0.0091 (J)	
11/4/2016								0.0165
11/14/2016					0.0383			
1/11/2017		0.0075 (J)	0.0036 (J)					
1/12/2017							0.0089 (J)	0.0199
1/13/2017						0.0146		
2/24/2017					0.0351			
3/1/2017			0.0036 (J)					
3/2/2017		0.009 (J)						
3/6/2017						0.0141		
3/7/2017							0.009 (J)	0.0196
4/26/2017		0.0078 (J)	0.0038 (J)					
5/1/2017						0.0149	0.0083 (J)	
5/2/2017								0.0202
5/8/2017					0.0251			
6/27/2017							0.0074 (J)	0.0184
6/28/2017		0.0071 (J)	0.004 (J)					
6/29/2017						0.0154		
7/11/2017					0.0233			
10/10/2017					0.0207			
10/11/2017	0.0092 (J)							
10/12/2017				0.0328				
11/20/2017	0.0081 (J)			0.0671				
1/10/2018				0.0656				
1/11/2018	0.0077 (J)							
2/19/2018				0.0598				
2/20/2018	<0.01							
3/28/2018		<0.01	<0.01					
3/29/2018						0.014	<0.01	0.021
4/2/2018					0.022			
4/3/2018	<0.01			0.045				
6/6/2018							0.008 (J)	
6/7/2018		0.0068 (J)				0.014		0.019
6/8/2018			0.0034 (J)					
6/28/2018	0.0078 (J)			0.047				
8/7/2018	0.0078 (J)			0.048				
9/19/2018					0.023			
9/24/2018	0.0071 (J)			0.042				
9/26/2018						0.02	0.0075 (J)	0.019
10/1/2018		0.0065 (J)	0.0034 (J)					
2/27/2019		0.0059 (J)	0.0034 (J)					
3/4/2019						0.016	0.0077 (J)	0.019
4/1/2019		0.0064 (J)	0.003 (J)					
4/3/2019						0.017	0.0087 (J)	0.023

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					0.024			
8/21/2019	0.015			0.035				
9/24/2019							0.0075 (J)	0.019
9/25/2019		0.0059 (J)	0.005 (J)			0.015		
10/8/2019					0.025			
10/9/2019	0.013			0.036				
2/11/2020			0.0031 (J)					
2/12/2020	0.011	0.0062 (J)		0.035		0.012	0.0079 (J)	0.021
3/17/2020					0.035			
3/19/2020		0.0072 (J)	0.0029 (J)					
3/24/2020				0.033			0.0076 (J)	0.021
3/25/2020	0.014					0.016		
8/27/2020					0.027			
9/22/2020					0.026	0.013	0.0076 (J)	0.019
9/23/2020		0.0051 (J)	0.0039 (J)					
9/24/2020	0.016			0.028				
2/8/2021							0.0079 (J)	0.02
2/9/2021						0.013		
2/10/2021	0.027	0.0059 (J)	0.0029 (J)	0.032				
3/1/2021					0.029			
3/2/2021							0.014	0.019
3/3/2021		0.0064	0.0031 (J)			0.014		
3/4/2021	0.028			0.032				
8/19/2021		0.0052			0.029			
8/26/2021	0.038					0.012	0.0092	0.019
8/27/2021			0.0039 (J)					
9/3/2021				0.035				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.0005								
9/20/1999	<0.0005								
9/12/2001	<0.0005								
9/3/2002	<0.0005								
7/29/2003	<0.0005								
12/5/2003	<0.0005								
9/22/2004	<0.0005								
5/1/2007		<0.0005							
9/11/2007		<0.0005							
3/20/2008		<0.0005							
8/27/2008		<0.0005							
3/3/2009		<0.0005							
9/9/2009								<0.0005	
11/18/2009		<0.0005						<0.0005	
1/5/2010								<0.0005	
3/3/2010		<0.0005						<0.0005	
9/7/2010								<0.0005	
9/8/2010		<0.0005							
11/22/2010				<0.0005		<0.0005			
1/4/2011				<0.0005		<0.0005			
2/17/2011				<0.0005		<0.0005			
3/10/2011		<0.0005						<0.0005	
3/11/2011				<0.0005		<0.0005			
3/28/2011				<0.0005		<0.0005			
9/7/2011				<0.0005	<0.0005	<0.0005	<0.0005		
9/8/2011		<0.0005	<0.0005					<0.0005	
3/4/2012						<0.0005			
3/5/2012		<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	
3/6/2012				<0.0005					
9/5/2012			<0.0005		<0.0005		<0.0005	<0.0005	
9/10/2012		<0.0005				<0.0005			
9/11/2012				<0.0005					
2/5/2013			<0.0005				<0.0005	<0.0005	
2/6/2013		<0.0005		<0.0005	<0.0005	<0.0005			
8/12/2013		<0.0005							
8/13/2013			<0.0005	<0.0005	<0.0005			<0.0005	
8/14/2013						<0.0005	<0.0005		
2/4/2014			<0.0005	<0.0005		<0.0005		<0.0005	
2/5/2014		<0.0005			<0.0005		<0.0005		
8/4/2014					0.0011 (J)	<0.0005	0.00026 (J)		
8/5/2014		<0.0005	7.5E-05 (J)	<0.0005				<0.0005	
2/2/2015			0.00023 (J)	<0.0005		<0.0005			
2/3/2015					0.00061 (J)		0.00023 (J)	<0.0005	
2/4/2015		<0.0005							
8/3/2015		<0.0005			0.00051 (JD)	<0.0005 (D)	0.00046 (JD)		
8/4/2015			<0.0005 (D)	<0.0005				<0.0005	
2/16/2016		<0.0005	<0.0005		0.00084 (J)	<0.0005	0.00048 (J)	<0.0005	
2/17/2016				<0.0005					
6/2/2016									<0.0005
7/26/2016									0.0002 (J)
8/31/2016		<0.0005	0.0001 (J)	<0.0005	0.0003 (J)				
9/1/2016						<0.0005	0.0005 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									0.0002 (J)
11/2/2016									0.0002 (J)
11/28/2016		<0.0005		<0.0005					
11/29/2016			<0.0005					<0.0005	
11/30/2016					0.0004 (J)	<0.0005			
12/1/2016							0.0003 (J)		
1/10/2017									0.0002 (J)
2/22/2017		<0.0005		<0.0005					
2/23/2017			<0.0005		0.0003 (J)			<0.0005	
2/24/2017						<0.0005	0.0002 (J)		
3/8/2017									0.0002 (J)
4/26/2017									0.0002 (J)
5/8/2017		<0.0005							
5/9/2017			8E-05 (J)		0.0002 (J)				
5/10/2017				<0.0005		<0.0005	0.0003 (J)	<0.0005	
6/30/2017									0.0002 (J)
7/17/2017		<0.0005					0.0004 (J)		
7/18/2017			<0.0005	<0.0005	0.0002 (J)	<0.0005		<0.0005	
10/16/2017		<0.0005					0.0006 (J)		
10/17/2017			0.0001 (J)	<0.0005		<0.0005			
10/18/2017					0.0004 (J)			<0.0005	
2/19/2018		<0.0005						<0.0005	
2/20/2018				<0.0005		<0.0005			
2/21/2018			<0.0005		<0.0005		<0.0005		
3/27/2018									<0.0005
8/6/2018		<0.0005						<0.0005	
8/7/2018			7.4E-05 (J)		0.00026 (J)		0.00096 (J)		
8/8/2018				7E-05 (J)		<0.0005			
2/25/2019		<0.0005						<0.0005	
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.0005	0.0015 (J)		0.00016 (J)
3/29/2019									0.00017 (J)
6/12/2019		<0.0005		<0.0005		<0.0005			
6/13/2019			<0.0005		0.00051 (J)		0.0015 (J)	<0.0005	
8/19/2019		<0.0005				<0.0005			
8/20/2019			0.0001 (J)	0.00017 (J)				<0.0005	
8/21/2019					0.00046 (J)		0.0028 (J)		
9/25/2019									0.00018 (J)
10/8/2019		<0.0005						<0.0005	
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)		
10/10/2019					0.00039 (J)	<0.0005			
2/12/2020									0.00019 (J)
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)			<0.0005	
3/18/2020				0.00012 (J)		<0.0005	0.0028 (J)		0.00021 (J)
8/26/2020		<0.0005							
8/27/2020			0.00024 (J)				0.0023 (J)	<0.0005	
8/28/2020				0.0002 (J)	0.0005 (J)	<0.0005			
9/22/2020		<0.0005	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)			
9/23/2020							0.0023 (J)	<0.0005	
9/25/2020									0.00018 (J)
2/10/2021									0.00019 (J)
3/1/2021			0.00023 (J)	0.00032 (J)		6E-05 (J)			
3/2/2021		<0.0005			0.00081		0.0037		0.00018 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								<0.0005	
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033	<0.0005	
8/19/2021									0.00022 (J)
8/20/2021		<0.0005							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.0005	<0.0005				
6/2/2016									<0.0005
6/6/2016		<0.0005	<0.0005						
6/7/2016	<0.0005					<0.0005	<0.0005		
7/25/2016					<0.0005				<0.0005
7/26/2016				<0.0005					
7/27/2016	<0.0005	<0.0005	<0.0005			<0.0005			
7/28/2016							<0.0005		
9/13/2016				<0.0005	<0.0005				
9/14/2016								<0.0005	
9/16/2016	<0.0005		<0.0005						
9/19/2016		<0.0005				<0.0005	<0.0005		<0.0005
11/1/2016				<0.0005					<0.0005
11/2/2016						<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005				<0.0005		
11/4/2016					<0.0005			<0.0005	
12/15/2016								<0.0005	
1/11/2017	<0.0005	<0.0005	<0.0005	<0.0005					
1/13/2017						<0.0005	<0.0005		
1/16/2017					<0.0005			<0.0005	<0.0005
2/21/2017									<0.0005
3/1/2017		<0.0005	<0.0005						
3/2/2017	8E-05 (J)			<0.0005	<0.0005				
3/3/2017								<0.0005	
3/6/2017						<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005			<0.0005	<0.0005		<0.0005
4/27/2017				<0.0005	<0.0005				
4/28/2017								<0.0005	
5/2/2017	<0.0005								
5/26/2017								<0.0005	
6/27/2017				<0.0005	<0.0005				
6/28/2017		<0.0005	<0.0005					<0.0005	
6/29/2017	<0.0005					<0.0005	<0.0005		
6/30/2017									<0.0005
3/27/2018					<0.0005				<0.0005
3/28/2018	<0.0005	<0.0005	<0.0005					<0.0005	
3/29/2018				<0.0005		<0.0005	<0.0005		
6/5/2018							<0.0005		
6/6/2018						8E-05 (J)			
6/7/2018		<0.0005							
6/11/2018	9E-05 (J)		5.7E-05 (J)						
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)			6.1E-05 (J)	<0.0005		
2/26/2019									7.2E-05 (J)
2/27/2019				<0.0005	<0.0005			<0.0005	
3/5/2019	9.1E-05 (J)		7.9E-05 (J)			0.00011 (J)	<0.0005		
3/6/2019		<0.0005							
3/28/2019				<0.0005	<0.0005				
3/29/2019								<0.0005	
4/1/2019									<0.0005
4/2/2019	9E-05 (J)						<0.0005		
4/3/2019		<0.0005	7.5E-05 (J)			6.4E-05 (J)			
9/24/2019				<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/25/2019	8.1E-05 (J)					<0.0005			<0.0005
9/26/2019		<0.0005	8.4E-05 (J)						
2/10/2020				<0.0005	<0.0005				
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)					<0.0005	
2/12/2020						7.8E-05 (J)	<0.0005		<0.0005
3/18/2020					<0.0005				
3/19/2020				<0.0005				<0.0005	<0.0005
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)			7.6E-05 (J)	<0.0005		
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0005			<0.0005	
9/24/2020						8.3E-05 (J)	<0.0005		<0.0005
2/9/2021		<0.0005	9.8E-05 (J)			6.8E-05 (J)	<0.0005		
2/10/2021								<0.0005	
2/11/2021									4.7E-05 (J)
2/12/2021				<0.0005	<0.0005				
3/1/2021									<0.0005
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0005	6.8E-05 (J)		<0.0005	
3/4/2021							<0.0005		
8/19/2021				<0.0005	<0.0005				<0.0005
8/26/2021			9.3E-05 (J)						
8/27/2021	0.0001 (J)	<0.0005				5.9E-05 (J)		<0.0005	
9/1/2021							<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.0005					
6/2/2016		<0.0005				<0.0005	<0.0005	<0.0005
7/25/2016			<0.0005					
7/26/2016		<0.0005				<0.0005	<0.0005	<0.0005
8/30/2016					<0.0005			
9/14/2016			<0.0005			<0.0005	<0.0005	<0.0005
9/15/2016		<0.0005						
11/1/2016		<0.0005	<0.0005					
11/2/2016						<0.0005	<0.0005	
11/4/2016								<0.0005
11/14/2016					<0.0005			
1/11/2017		<0.0005	<0.0005					
1/12/2017							<0.0005	<0.0005
1/13/2017						<0.0005		
2/24/2017					<0.0005			
3/1/2017			<0.0005					
3/2/2017		<0.0005						
3/6/2017						<0.0005		
3/7/2017							<0.0005	<0.0005
4/26/2017		<0.0005	<0.0005					
5/1/2017						<0.0005	<0.0005	
5/2/2017								<0.0005
5/8/2017					7E-05 (J)			
6/27/2017							<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005					
6/29/2017						<0.0005		
7/11/2017					<0.0005			
10/10/2017					<0.0005			
10/11/2017	<0.0005							
10/12/2017				0.0002 (J)				
11/20/2017	<0.0005			0.0003 (J)				
1/10/2018				0.0003 (J)				
1/11/2018	<0.0005							
2/19/2018				<0.0005				
2/20/2018	<0.0005							
3/28/2018		<0.0005	<0.0005					
3/29/2018						<0.0005	<0.0005	<0.0005
4/2/2018					<0.0005			
4/3/2018	<0.0005			<0.0005				
6/6/2018							<0.0005	
6/7/2018						<0.0005		<0.0005
6/28/2018	<0.0005			0.00029 (J)				
8/7/2018	<0.0005			0.00024 (J)				
9/19/2018					5.7E-05 (J)			
9/24/2018	<0.0005			0.00019 (J)				
9/26/2018						<0.0005	<0.0005	<0.0005
2/27/2019		<0.0005	<0.0005					
3/4/2019						<0.0005	<0.0005	<0.0005
4/1/2019		<0.0005	<0.0005					
4/3/2019						<0.0005	<0.0005	<0.0005
8/20/2019					<0.0005			
8/21/2019	<0.0005			0.0002 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/24/2019							<0.0005	<0.0005
9/25/2019		<0.0005	<0.0005			<0.0005		
10/9/2019	<0.0005			0.0002 (J)				
2/11/2020			<0.0005					
2/12/2020	<0.0005	<0.0005		0.00018 (J)		<0.0005	<0.0005	<0.0005
3/19/2020		<0.0005	<0.0005					
3/24/2020				0.00022 (J)			<0.0005	<0.0005
3/25/2020	<0.0005					<0.0005		
8/27/2020					4.7E-05 (J)			
9/22/2020					<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	5.9E-05 (J)					
9/24/2020	<0.0005			0.0002 (J)				
2/8/2021							<0.0005	<0.0005
2/9/2021						<0.0005		
2/10/2021	5.1E-05 (J)	<0.0005	<0.0005	0.00021 (J)				
3/1/2021					5.5E-05 (J)			
3/2/2021							<0.0005	<0.0005
3/3/2021		<0.0005	<0.0005			<0.0005		
3/4/2021	<0.0005			0.00021 (J)				
8/19/2021		<0.0005			<0.0005			
8/26/2021	<0.0005					<0.0005	<0.0005	<0.0005
8/27/2021			<0.0005					
9/3/2021				0.00024 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.04	
6/7/2016									<0.04
7/26/2016								0.0177 (J)	
7/27/2016									0.008 (J)
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)					
9/1/2016					3.25	0.0191 (J)	0.0108 (J)		
9/15/2016								0.0214 (J)	
9/16/2016									0.0086 (J)
11/2/2016								<0.04	
11/3/2016									0.0077 (J)
11/28/2016	0.0095 (J)		0.0206 (J)						
11/29/2016		0.0149 (J)					<0.04		
11/30/2016				0.0089 (J)	0.813				
12/1/2016						0.0088 (J)			
1/10/2017								0.0198 (J)	
1/11/2017									0.0092 (J)
2/22/2017	<0.04		0.0192 (J)						
2/23/2017		0.0082 (J)		<0.04			<0.04		
2/24/2017					2.53	0.0067 (J)			
3/2/2017									0.0095 (J)
3/8/2017								0.0189 (J)	
4/26/2017								0.0161 (J)	
5/2/2017									<0.04
5/8/2017	0.0084 (J)								
5/9/2017		0.0097 (J)		0.0077 (J)					
5/10/2017			0.0179 (J)		1.22	0.0068 (J)	<0.04		
6/29/2017									0.0074 (J)
6/30/2017								0.0173 (J)	
7/17/2017	0.0092 (J)					0.0102 (J)			
7/18/2017		0.0123 (J)	0.0169 (J)	0.0073 (J)	0.97		0.0061 (J)		
10/4/2017									0.0077 (J)
10/5/2017								0.0173 (J)	
10/16/2017	<0.04					0.0066 (J)			
10/17/2017		0.0513	0.0168 (J)		0.804				
10/18/2017				<0.04			<0.04		
2/19/2018	<0.04						<0.04		
2/20/2018			<0.04		1.01				
2/21/2018		0.0378 (J)		0.0399 (J)		0.0268 (J)			
6/8/2018								0.013 (J)	
6/11/2018									0.01 (J)
8/6/2018	<0.04						<0.04		
8/7/2018		0.043		0.0049 (J)		0.012 (J)			
8/8/2018			0.017 (J)		1.3				
9/25/2018									0.0096 (J)
10/1/2018								0.015 (J)	
2/25/2019	<0.04						<0.04		
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)			
3/29/2019								0.014 (J)	
4/2/2019									0.0066 (J)
6/12/2019	<0.04		0.013 (J)		1.5				
6/13/2019		0.057		<0.04		0.03 (J)	<0.04		
9/25/2019								0.018 (J)	0.0081 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	<0.04						<0.04		
10/9/2019		0.029 (J)	0.018 (J)			0.013 (J)			
10/10/2019				0.0061 (J)	0.78				
3/17/2020	0.0051 (J)	0.092 (J)		0.0099 (J)			<0.04		
3/18/2020			0.026 (J)		5.4	0.034 (J)		0.02 (J)	
3/24/2020									0.0092 (J)
9/22/2020	0.0079 (J)	0.025 (J)	0.046 (J)	0.0066 (J)	1				
9/23/2020						0.028 (J)	0.0055 (J)		0.0066 (J)
9/25/2020								0.02 (J)	
3/1/2021		0.046	0.087		5.1				
3/2/2021	<0.04			0.0071 (J)		0.023 (J)		0.017 (J)	
3/3/2021							<0.04		0.01 (J)
8/18/2021		0.029 (J)	0.14	<0.04	4.5	0.021 (J)	<0.04		
8/19/2021								0.018 (J)	
8/20/2021	<0.04								
8/27/2021									0.011 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.04	<0.04					
6/2/2016								<0.04	
6/6/2016	<0.04	<0.04							
6/7/2016					<0.04	<0.04			
7/25/2016				<0.04				<0.04	
7/26/2016			0.0055 (J)						
7/27/2016	<0.04	0.0059 (J)			<0.04				
7/28/2016						<0.04			
9/13/2016			<0.04	<0.04					
9/14/2016							<0.04		
9/16/2016		0.0079 (J)							
9/19/2016	<0.04				<0.04	<0.04		<0.04	
11/1/2016			0.0086 (J)					<0.04	
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)				<0.04			
11/4/2016				<0.04			<0.04		
12/15/2016							0.0107 (J)		
1/11/2017	<0.04	0.0096 (J)	0.0074 (J)						
1/13/2017					<0.04	<0.04			
1/16/2017				<0.04			<0.04	<0.04	
2/21/2017								<0.04	
3/1/2017	<0.04	<0.04							
3/2/2017			0.008 (J)	<0.04					
3/3/2017							<0.04		
3/6/2017					<0.04	<0.04			
4/26/2017	<0.04	0.0091 (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	0.0079 (J)					<0.04		
6/29/2017					<0.04	<0.04			
6/30/2017								<0.04	
10/3/2017			0.0072 (J)	0.0071 (J)		<0.04	<0.04		
10/4/2017		0.009 (J)			<0.04			<0.04	
10/5/2017	<0.04								
10/11/2017									0.0135 (J)
11/20/2017									0.0251 (J)
1/11/2018									0.0255 (J)
2/20/2018									<0.04
4/3/2018									0.033 (J)
6/5/2018			0.0052 (J)			0.0092 (J)			
6/6/2018				<0.04	0.0049 (J)				
6/7/2018	<0.04						<0.04		
6/11/2018		0.0093 (J)						0.014 (J)	
6/28/2018									0.053
8/7/2018									0.024 (J)
9/24/2018									0.028 (J)
9/25/2018	0.0046 (J)	0.007 (J)			<0.04	0.0054 (J)			
10/1/2018			0.021 (J)	0.0049 (J)			<0.04		
10/2/2018								<0.04	
3/27/2019									0.017 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			0.005 (J)	<0.04					
3/29/2019							0.0065 (J)		
4/1/2019								<0.04	
4/2/2019						0.011 (J)			
4/3/2019	<0.04	0.0053 (J)			<0.04				
9/24/2019			0.0064 (J)	0.0055 (J)		0.018 (J)	0.0076 (J)		
9/25/2019					<0.04			<0.04	
9/26/2019	0.0062 (J)	0.0072 (J)							
10/9/2019									0.017 (J)
3/18/2020				0.0087 (J)					
3/19/2020			0.0085 (J)				0.0073 (J)	0.0052 (J)	
3/24/2020	0.0054 (J)	0.01 (J)			<0.04	0.016 (J)			
3/25/2020									0.043 (J)
9/23/2020	0.021 (J)	0.006 (J)	<0.04	<0.04			<0.04		
9/24/2020					0.0094 (J)	0.013 (J)		0.0075 (J)	0.037 (J)
3/1/2021								<0.04	
3/3/2021	<0.04	0.0094 (J)	<0.04	<0.04	<0.04		<0.04		
3/4/2021						0.0079 (J)			0.033 (J)
8/19/2021			<0.04	<0.04				<0.04	
8/26/2021		<0.04							0.095
8/27/2021	<0.04				<0.04		<0.04		
9/1/2021						<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.04					
6/2/2016	<0.04				<0.04	<0.04	<0.04
7/25/2016		<0.04					
7/26/2016	0.0097 (J)				0.0047 (J)	0.0052 (J)	<0.04
8/30/2016				0.0166 (J)			
9/14/2016		<0.04			<0.04	0.0071 (J)	0.01 (J)
9/15/2016	0.0102 (J)						
11/1/2016	<0.04	<0.04					
11/2/2016					<0.04	<0.04	
11/4/2016							<0.04
11/14/2016				0.0166 (J)			
1/11/2017	<0.04	<0.04					
1/12/2017						0.0076 (J)	<0.04
1/13/2017					<0.04		
2/24/2017				0.0145 (J)			
3/1/2017		<0.04					
3/2/2017	0.0084 (J)						
3/6/2017					<0.04		
3/7/2017						0.0089 (J)	<0.04
4/26/2017	<0.04	<0.04					
5/1/2017					<0.04	0.0061 (J)	
5/2/2017							<0.04
5/8/2017				0.0141 (J)			
6/27/2017						0.0079 (J)	<0.04
6/28/2017	<0.04	<0.04					
6/29/2017					<0.04		
7/11/2017				0.0131 (J)			
10/3/2017						0.0094 (J)	<0.04
10/4/2017	<0.04	<0.04					
10/5/2017					<0.04		
10/10/2017				0.0124 (J)			
10/12/2017			0.0401				
11/20/2017			0.156				
1/10/2018			0.15				
2/19/2018			0.146				
4/2/2018				0.013 (J)			
4/3/2018			0.12				
6/6/2018						0.0098 (J)	
6/7/2018	0.004 (J)				0.0045 (J)		<0.04
6/8/2018		<0.04					
6/28/2018			0.16				
8/7/2018			0.12				
9/19/2018				0.012 (J)			
9/24/2018			0.099				
9/26/2018					0.005 (J)	0.01 (J)	0.0057 (J)
10/1/2018	<0.04	<0.04					
3/26/2019			0.096				
3/27/2019				0.013 (J)			
4/1/2019	<0.04	<0.04					
4/3/2019					0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019						0.01 (J)	0.0049 (J)
9/25/2019	0.0054 (J)	<0.04			<0.04		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				0.012 (J)			
10/9/2019			0.079				
3/17/2020				0.023 (J)			
3/19/2020	0.0073 (J)	0.0053 (J)					
3/24/2020			0.088 (J)			0.011 (J)	0.0068 (J)
3/25/2020					0.011 (J)		
9/22/2020				0.0076 (J)	<0.04	0.0079 (J)	0.0053 (J)
9/23/2020	0.012 (J)	0.0073 (J)					
9/24/2020			0.087 (J)				
3/1/2021				0.013 (J)			
3/2/2021						0.0068 (J)	0.011 (J)
3/3/2021	<0.04	<0.04			0.0056 (J)		
3/4/2021			0.078				
8/19/2021	<0.04			0.011 (J)			
8/26/2021					<0.04	0.009 (J)	<0.04
8/27/2021		<0.04					
9/3/2021			0.077				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
5/1/2007	<0.0005								
9/11/2007	<0.0005								
3/20/2008	<0.0005								
8/27/2008	<0.0005								
3/3/2009	<0.0005								
9/9/2009							<0.0005		
11/18/2009	<0.0005						<0.0005		
1/5/2010							<0.0005		
3/3/2010	<0.0005						<0.0005		
9/7/2010							<0.0005		
9/8/2010	<0.0005								
11/22/2010			<0.0005		<0.0005				
1/4/2011			<0.0005		<0.0005				
2/17/2011			<0.0005		<0.0005				
3/10/2011	<0.0005						<0.0005		
3/11/2011			<0.0005		<0.0005				
3/28/2011			<0.0005		<0.0005				
9/7/2011			<0.0005	<0.0005	<0.0005	<0.0005			
9/8/2011	<0.0005	<0.0005					<0.0005		
3/4/2012					<0.0005				
3/5/2012	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005		
3/6/2012			<0.0005						
9/5/2012		<0.0005		<0.0005		<0.0005	<0.0005		
9/10/2012	<0.0005				<0.0005				
9/11/2012			<0.0005						
2/5/2013		<0.0005				<0.0005	<0.0005		
2/6/2013	<0.0005		<0.0005	<0.0005	<0.0005				
8/12/2013	<0.0005								
8/13/2013		<0.0005	<0.0005	<0.0005			<0.0005		
8/14/2013					<0.0005	<0.0005			
2/4/2014		<0.0005	<0.0005		<0.0005		<0.0005		
2/5/2014	<0.0005			<0.0005		<0.0005			
8/4/2014				0.00034 (J)	<0.0005	0.00045 (J)			
8/5/2014	<0.0005	<0.0005	<0.0005				<0.0005		
2/2/2015		<0.0005	<0.0005		<0.0005				
2/3/2015				<0.0005		<0.0005	<0.0005		
2/4/2015	<0.0005								
8/3/2015	<0.0005			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)			
8/4/2015		<0.0005 (D)	<0.0005				<0.0005		
2/16/2016	<0.0005	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)	<0.0005		
2/17/2016			<0.0005						
6/2/2016								<0.0005	
6/7/2016									<0.0005
7/26/2016								<0.0005	
7/27/2016									<0.0005
8/31/2016	<0.0005	<0.0005	0.0001 (J)	<0.0005					
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005		
9/15/2016								<0.0005	
9/16/2016									<0.0005
11/2/2016								<0.0005	
11/3/2016									<0.0005
11/28/2016	<0.0005		0.0001 (J)						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
11/29/2016		8E-05 (J)					<0.0005		
11/30/2016				<0.0005	<0.0005				
12/1/2016						0.0004 (J)			
1/10/2017								<0.0005	
1/11/2017									0.0001 (J)
2/22/2017	<0.0005		<0.0005						
2/23/2017		<0.0005		<0.0005			<0.0005		
2/24/2017					<0.0005	0.0003 (J)			
3/2/2017									<0.0005
3/8/2017								7E-05 (J)	
4/26/2017								<0.0005	
5/2/2017									<0.0005
5/8/2017	<0.0005								
5/9/2017		<0.0005		<0.0005					
5/10/2017			<0.0005		<0.0005	0.0003 (J)	<0.0005		
6/29/2017									<0.0005
6/30/2017								<0.0005	
7/17/2017	<0.0005					0.0004 (J)			
7/18/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		
10/16/2017	<0.0005					0.0006 (J)			
10/17/2017		<0.0005	<0.0005		<0.0005				
10/18/2017				<0.0005			<0.0005		
2/19/2018	<0.0005						<0.0005		
2/20/2018			<0.0005		<0.0005				
2/21/2018		<0.0005		<0.0005		<0.0005			
3/27/2018								<0.0005	
3/28/2018									<0.0005
6/11/2018									<0.0005
8/6/2018	<0.0005						<0.0005		
8/7/2018		<0.0005		<0.0005		0.00083 (J)			
8/8/2018			<0.0005		<0.0005				
9/25/2018									<0.0005
2/25/2019	<0.0005						<0.0005		
2/26/2019		<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)		<0.0005	
3/5/2019									<0.0005
3/29/2019								<0.0005	
4/2/2019									<0.0005
6/12/2019	<0.0005		<0.0005		<0.0005				
6/13/2019		<0.0005		0.00021 (J)		0.00073 (J)	<0.0005		
8/19/2019	<0.0005				<0.0005				
8/20/2019		<0.0005	<0.0005				<0.0005		
8/21/2019				<0.0005		0.0012 (J)			
9/25/2019								<0.0005	<0.0005
10/8/2019	<0.0005						<0.0005		
10/9/2019		<0.0005	<0.0005			0.0011 (J)			
10/10/2019				0.00018 (J)	<0.0005				
2/11/2020									<0.0005
2/12/2020								<0.0005	
3/17/2020	<0.0005	<0.0005		0.00037 (J)			<0.0005		
3/18/2020			<0.0005		<0.0005	0.0012 (J)		<0.0005	
3/24/2020									<0.0005
8/26/2020	<0.0005								

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
8/27/2020		0.00012 (J)				0.00091 (J)	<0.0005		
8/28/2020			0.00015 (J)	0.00014 (J)	<0.0005				
9/22/2020	<0.0005	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005				
9/23/2020						0.00094 (J)	<0.0005		<0.0005
9/25/2020								<0.0005	
2/10/2021								<0.0005	
3/1/2021		0.00013 (J)	0.00016 (J)		<0.0005				
3/2/2021	<0.0005			0.00021 (J)		0.0011		<0.0005	
3/3/2021							<0.0005		<0.0005
8/18/2021		0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001	<0.0005		
8/19/2021								<0.0005	
8/20/2021	<0.0005								
8/27/2021									<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.0005	<0.0005					
6/2/2016								<0.0005	
6/6/2016	<0.0005	<0.0005							
6/7/2016					<0.0005	<0.0005			
7/25/2016				<0.0005				<0.0005	
7/26/2016			<0.0005						
7/27/2016	<0.0005	<0.0005			<0.0005				
7/28/2016						<0.0005			
9/13/2016			<0.0005	<0.0005					
9/14/2016							<0.0005		
9/16/2016		<0.0005							
9/19/2016	<0.0005				<0.0005	<0.0005		<0.0005	
11/1/2016			<0.0005					<0.0005	
11/2/2016					<0.0005				
11/3/2016	<0.0005	<0.0005				<0.0005			
11/4/2016				<0.0005			<0.0005		
12/15/2016							<0.0005		
1/11/2017	<0.0005	0.0001 (J)	0.0002 (J)						
1/13/2017					<0.0005	<0.0005			
1/16/2017				<0.0005			<0.0005	<0.0005	
2/21/2017								<0.0005	
3/1/2017	<0.0005	<0.0005							
3/2/2017			<0.0005	<0.0005					
3/3/2017							<0.0005		
3/6/2017					<0.0005	<0.0005			
4/26/2017	<0.0005	<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		
6/29/2017					<0.0005	<0.0005			
6/30/2017								<0.0005	
10/11/2017									<0.0005
11/20/2017									<0.0005
1/11/2018									<0.0005
2/20/2018									<0.0005
3/27/2018				<0.0005				<0.0005	
3/28/2018	<0.0005	<0.0005					<0.0005		
3/29/2018			<0.0005		<0.0005	<0.0005			
4/3/2018									<0.0005
6/5/2018						<0.0005			
6/6/2018					<0.0005				
6/7/2018	<0.0005								
6/11/2018		<0.0005							
6/28/2018									<0.0005
8/7/2018									<0.0005
9/24/2018									<0.0005
9/25/2018	<0.0005	<0.0005			<0.0005	9.6E-05 (J)			
2/26/2019								<0.0005	
2/27/2019			<0.0005	<0.0005			<0.0005		
3/5/2019		<0.0005			<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/6/2019	<0.0005								
3/28/2019			<0.0005	<0.0005					
3/29/2019							<0.0005		
4/1/2019								<0.0005	
4/2/2019						<0.0005			
4/3/2019	<0.0005	<0.0005			<0.0005				
8/21/2019									<0.0005
9/24/2019			<0.0005	<0.0005		<0.0005	<0.0005		
9/25/2019					<0.0005			<0.0005	
9/26/2019	<0.0005	<0.0005							
10/9/2019									<0.0005
2/10/2020			<0.0005	<0.0005					
2/11/2020	<0.0005	<0.0005					<0.0005		
2/12/2020					<0.0005	<0.0005		<0.0005	<0.0005
3/18/2020				<0.0005					
3/19/2020			<0.0005				<0.0005	<0.0005	
3/24/2020	<0.0005	<0.0005			<0.0005	<0.0005			
3/25/2020									<0.0005
9/23/2020	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005		
9/24/2020					<0.0005	<0.0005		<0.0005	<0.0005
2/9/2021	<0.0005	<0.0005			<0.0005	0.00041 (J)			
2/10/2021							<0.0005		0.00019 (J)
2/11/2021								<0.0005	
2/12/2021			<0.0005	<0.0005					
3/1/2021								<0.0005	
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		
3/4/2021						<0.0005			0.0003 (J)
8/19/2021			<0.0005	<0.0005				<0.0005	
8/26/2021		<0.0005							0.00049 (J)
8/27/2021	<0.0005				<0.0005		<0.0005		
9/1/2021						<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.0005					
6/2/2016	<0.0005				<0.0005	<0.0005	<0.0005
7/25/2016		<0.0005					
7/26/2016	<0.0005				<0.0005	<0.0005	<0.0005
8/30/2016				0.0001 (J)			
9/14/2016		<0.0005			<0.0005	<0.0005	<0.0005
9/15/2016	<0.0005						
11/1/2016	<0.0005	<0.0005					
11/2/2016					<0.0005	<0.0005	
11/4/2016							<0.0005
11/14/2016				0.0001 (J)			
1/11/2017	0.0001 (J)	8E-05 (J)					
1/12/2017						<0.0005	9E-05 (J)
1/13/2017					<0.0005		
2/24/2017				9E-05 (J)			
3/1/2017		<0.0005					
3/2/2017	<0.0005						
3/6/2017					<0.0005		
3/7/2017						<0.0005	<0.0005
4/26/2017	<0.0005	<0.0005					
5/1/2017					<0.0005	<0.0005	
5/2/2017							<0.0005
5/8/2017				0.0001 (J)			
6/27/2017						<0.0005	<0.0005
6/28/2017	<0.0005	<0.0005					
6/29/2017					<0.0005		
7/11/2017				<0.0005			
10/10/2017				<0.0005			
10/12/2017			<0.0005				
11/20/2017			<0.0005				
1/10/2018			<0.0005				
2/19/2018			<0.0005				
3/28/2018	<0.0005	<0.0005					
3/29/2018					<0.0005	<0.0005	<0.0005
4/2/2018				<0.0005			
4/3/2018			<0.0005				
6/6/2018						<0.0005	
6/7/2018					<0.0005		<0.0005
6/28/2018			<0.0005				
8/7/2018			<0.0005				
9/19/2018				<0.0005			
9/24/2018			<0.0005				
9/26/2018					<0.0005	<0.0005	<0.0005
2/27/2019	<0.0005	<0.0005					
3/4/2019					<0.0005	<0.0005	<0.0005
4/1/2019	<0.0005	<0.0005					
4/3/2019					<0.0005	<0.0005	<0.0005
8/20/2019				<0.0005			
8/21/2019			<0.0005				
9/24/2019						<0.0005	<0.0005
9/25/2019	<0.0005	<0.0005			<0.0005		
10/8/2019				<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/9/2019			<0.0005				
2/11/2020		<0.0005					
2/12/2020	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
3/17/2020				<0.0005			
3/19/2020	<0.0005	<0.0005					
3/24/2020			<0.0005			<0.0005	<0.0005
3/25/2020					<0.0005		
8/27/2020				<0.0005			
9/22/2020					<0.0005	<0.0005	<0.0005
9/23/2020	<0.0005	<0.0005					
9/24/2020			<0.0005				
2/8/2021						<0.0005	<0.0005
2/9/2021					<0.0005		
2/10/2021	<0.0005	<0.0005	<0.0005				
3/2/2021						<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005			<0.0005		
3/4/2021			<0.0005				
8/19/2021	<0.0005			<0.0005			
8/26/2021					<0.0005	<0.0005	<0.0005
8/27/2021		<0.0005					
9/3/2021			<0.0005				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								1.3	
6/7/2016									2.2
7/26/2016								1.24	
7/27/2016									2
8/31/2016	9.31	69.4	19.9	7.23					
9/1/2016					37.1	113	56.8		
9/15/2016								1.17	
9/16/2016									1.97
11/2/2016								1.23	
11/3/2016									1.99
11/28/2016	9.47 (B)		17.7 (B)						
11/29/2016		70.6 (B)					50.7 (B)		
11/30/2016				6.43 (B)	13.4 (B)				
12/1/2016						141 (B)			
1/10/2017								1.24	
1/11/2017									2.28
2/22/2017	10.4		16.2						
2/23/2017		62.4		4.25			63.5		
2/24/2017					29.5	118			
3/2/2017									2.15
3/8/2017								1.21	
4/26/2017								1.14	
5/2/2017									1.95
5/8/2017	14.2								
5/9/2017		47.4		3.56					
5/10/2017			11.8		17	136	105		
6/29/2017									2.02
6/30/2017								1.24	
7/17/2017	14.1					125			
7/18/2017		33.2	8.69	4.16	16.8		157		
10/4/2017									2.03
10/5/2017								1.11	
10/16/2017	13.6					78.2			
10/17/2017		38.7	9.77		14.3				
10/18/2017				5.67			118		
2/19/2018	<25						124		
2/20/2018			<25		<25				
2/21/2018		34.3		4.76		64			
6/8/2018								1.1	
6/11/2018									2.1
8/6/2018	11.4 (J)						173		
8/7/2018		26.2		4.7		83			
8/8/2018			13.4 (J)		22.1 (J)				
9/25/2018									2.1
10/1/2018								0.99	
2/25/2019	12.7 (J)						143		
2/26/2019		24.7 (J)	20.9 (J)	7.1	15.1 (J)	94.4			
3/29/2019								1.1	
4/2/2019									2.5
6/12/2019	18.9		26.6		24.2				
6/13/2019		33.8		15.7		127	146		
9/25/2019								1.1	2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	28.3						115		
10/9/2019		59.1	27.8			128			
10/10/2019				4.3	18				
3/17/2020	24.3	36.7		20.3			66.8		
3/18/2020			34.5		76.6	149		1.1	
3/24/2020									2.7
9/22/2020	31	98.8	40.5	6.2	21.8				
9/23/2020						144	103		2.6
9/25/2020								1.3	
3/1/2021		117	54.1		69.5				
3/2/2021	34.2			17.9		145		1.2	
3/3/2021							105		2.5
8/18/2021		154	45.8	20.2	56.2	159	74.5		
8/19/2021								1.2	
8/20/2021	26.5								
8/27/2021									2.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			12	2.5					
6/2/2016								1.3	
6/6/2016	6.2	1.4							
6/7/2016					2.3	3.7			
7/25/2016				2.16				1.17	
7/26/2016			11						
7/27/2016	4.73	1.19			2.08				
7/28/2016						3.15			
9/13/2016			11.8	2.21					
9/14/2016							23.5		
9/16/2016		1.5							
9/19/2016	4.76				1.97	3.17		1.05	
11/1/2016			11					1.14	
11/2/2016					2.13				
11/3/2016	5.25	1.31				3.4			
11/4/2016				2.67			23.7		
12/15/2016							23.1		
1/11/2017	4.74	1.25	11.2						
1/13/2017					2.45	4.98			
1/16/2017				2.45			23.3	1.23	
2/21/2017								1.25	
3/1/2017	5.37	1.26							
3/2/2017			11	2.57					
3/3/2017							25.1		
3/6/2017					2.48	6.28			
4/26/2017	4.28	1.05			2.3	6.65		1.03	
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	4.95	1.06					26.1		
6/29/2017					2.54	6.04			
6/30/2017								1.13	
10/3/2017			14	2.21		8.28	26.7		
10/4/2017		1.1			2.25			1.09	
10/5/2017	5.28								
10/11/2017									2.74
11/20/2017									1.81
1/11/2018									1.54
2/20/2018									1.71
4/3/2018									1.4
6/5/2018			15.2 (J)			9.1			
6/6/2018				2.3	2.3				
6/7/2018	4.8						25		
6/11/2018		1.4						1.1	
6/28/2018									1.4
8/7/2018									1.2
9/24/2018									1.1
9/25/2018	4.6	1			2.3	10.4 (J)			
10/1/2018			15.1	1.8			25		
10/2/2018								1.1	
3/27/2019									1.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			13.3 (J)	2.2					
3/29/2019							23.5 (J)		
4/1/2019								1.3	
4/2/2019						8.8			
4/3/2019	5.3	1.2			2.9				
9/24/2019			15.8	2.3		7.7	26.4		
9/25/2019					2.4			1.1	
9/26/2019	4.9	1.1							
10/9/2019									2.4
3/18/2020				2.1					
3/19/2020			15				27.4	1.2	
3/24/2020	5.3	1			2.6	6			
3/25/2020									2.7
9/23/2020	5.2	0.91 (J)	14.1	1.8			26.3		
9/24/2020					2.6	7.8		1.1	3.7
3/1/2021								1.2	
3/3/2021	5.2	0.96 (J)	14.1	1.8	2.4		25.6		
3/4/2021						8.7			8.2
8/19/2021			14.2	2				1.2	
8/26/2021		0.98 (J)							14.1
8/27/2021	5.1				2.4		22.6		
9/1/2021						9.5			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		21					
6/2/2016	28				8.8	33	2.4
7/25/2016		20.3					
7/26/2016	24.5				7.69	32.3	2.12
8/30/2016				20.9			
9/14/2016		19.7			8.49	31	2.18
9/15/2016	27						
11/1/2016	25.6	18.4					
11/2/2016					7.83	30.9	
11/4/2016							2.17 (J)
11/14/2016				18.6			
1/11/2017	27.5	20.3					
1/12/2017						35.7	2.37
1/13/2017					8.08		
2/24/2017				16.1			
3/1/2017		18.6					
3/2/2017	27.5						
3/6/2017					8.64		
3/7/2017						32.7	2.34
4/26/2017	30.4	25.6					
5/1/2017					13.4	37	
5/2/2017							2.17
5/8/2017				14.6			
6/27/2017						36.5	2.13
6/28/2017	29.8	23.9					
6/29/2017					8.81		
7/11/2017				14.3			
10/3/2017						30.9	2.15
10/4/2017	29.7	22.1					
10/5/2017					9.29		
10/10/2017				12.1			
10/12/2017			2.9				
11/20/2017			10.4				
1/10/2018			10.2				
2/19/2018			<25				
4/2/2018				<25			
4/3/2018			6.3				
6/6/2018						26.2	
6/7/2018	29.1				8.2		2.3
6/8/2018		21.9 (J)					
6/28/2018			6.7				
8/7/2018			6.3				
9/19/2018				11.1 (J)			
9/24/2018			5.7				
9/26/2018					9.5 (J)	25.8	2.3
10/1/2018	26.9	19.7					
3/26/2019			5.6				
3/27/2019				10.8 (J)			
4/1/2019	30.1	20.4 (J)					
4/3/2019					8.4	24.7 (J)	2.8
9/24/2019						25.8	2.5
9/25/2019	29.5	22.4			9.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				9.7			
10/9/2019			4.9				
3/17/2020				14.8			
3/19/2020	31.5	21.9					
3/24/2020			4.8			26.1	2.5
3/25/2020					10.5		
9/22/2020				10.1	9.6	27.2	2.6
9/23/2020	28.6	23.6					
9/24/2020			4.4				
3/1/2021				10.3			
3/2/2021						1.6	2.6
3/3/2021	29.8	20.6			7.7		
3/4/2021			4.6				
8/19/2021	28.1			9.6			
8/26/2021					7.6	25.2	2.5
8/27/2021		24.7					
9/3/2021			5.6				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								4.1	
6/7/2016									4.5
7/26/2016								4	
7/27/2016									4.5
8/31/2016	4	7.6	6.3	6.7					
9/1/2016					190	6.6	4.4		
9/15/2016								4.2	
9/16/2016									4.5
11/2/2016								4.9	
11/3/2016									5.4
11/28/2016	4.2		6.7						
11/29/2016		5.8					4.8		
11/30/2016				7.8	48				
12/1/2016						6			
1/10/2017								4.1	
1/11/2017									4.7
2/22/2017	3.7		5.7						
2/23/2017		6.2		6.5			4.4		
2/24/2017					130	3.4			
3/2/2017									4.8
3/8/2017								4.2	
4/26/2017								4.1	
5/2/2017									4.6
5/8/2017	4.2								
5/9/2017		16		7.2					
5/10/2017			7.1		71	4.5	3.9		
6/29/2017									4.5
6/30/2017								3.7	
7/17/2017	3.8					3.2			
7/18/2017		18	6	7.7	46		4		
10/4/2017									4.7
10/5/2017								3.8	
10/16/2017	4.2					9			
10/17/2017		31	6.1		50				
10/18/2017				6.5			4.1		
2/19/2018	4.3						4.4		
2/20/2018			5.8		53.1				
2/21/2018		27		6.7		5.6			
6/8/2018								3.4	
6/11/2018									4.9
8/6/2018	3.8						3.9		
8/7/2018		35.4		6.3		4.7			
8/8/2018			4.7		69.3				
9/25/2018									5.6
10/1/2018								3.8	
2/25/2019	4.1						4.4		
2/26/2019		20	5.7	5.7	42.2	4.2			
3/29/2019								4.2	
4/2/2019									4.8
6/12/2019	4.7		9.1		69.5				
6/13/2019		16.4		5		5.5	6.2		
9/25/2019								4.8	5.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	5.1						4.9		
10/9/2019		6.9	9.8			4.5			
10/10/2019				5.3	42.8				
3/17/2020	4.8	15.5		5.2			4.4		
3/18/2020			11.7		233	3.8		5.2	
3/24/2020									5
9/22/2020	4.2	5.5	24.7	4.2	60.2				
9/23/2020						3	4.7		6.6
9/25/2020								5.3	
3/1/2021		8.6	49.6		194				
3/2/2021	4.1			5.5		2.9		4.9	
3/3/2021							5		7.1
8/18/2021		5.2	26.2	4.6	150	2.3	5.4		
8/19/2021								5	
8/20/2021	5.2								
8/27/2021									8.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			1.3	1.6					
6/2/2016								1.9	
6/6/2016	6.8	6.4							
6/7/2016					1.9	2.8			
7/25/2016				1.4				1.7	
7/26/2016			1.2						
7/27/2016	6.7	6.2			1.9				
7/28/2016						2.6			
9/13/2016			1.1	1.3					
9/14/2016							1.1		
9/16/2016		6.1							
9/19/2016	7				1.9	2.4		1.6	
11/1/2016			1.3					1.8	
11/2/2016					2.6				
11/3/2016	7.5	7.4				2.9			
11/4/2016				1.6			1.4		
12/15/2016							2.9		
1/11/2017	6.5	6.1	1.1						
1/13/2017					2.3	2.5			
1/16/2017				1.4			0.98	1.7	
2/21/2017								1.7	
3/1/2017	6.9	6							
3/2/2017			1	1.3					
3/3/2017							1.1		
3/6/2017					1.9	2.1			
4/26/2017	7	6.5			2	2.1		1.7	
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	7	6.4					1		
6/29/2017					2.6	2.8			
6/30/2017								1.8	
10/3/2017			1.1	1.7		2.2	1.2		
10/4/2017		6.8			2.6			1.8	
10/5/2017	7								
10/11/2017									2.4
11/20/2017									1.8
1/11/2018									1.6
2/20/2018									2
4/3/2018									3.3
6/5/2018			1.1			1.7			
6/6/2018				1.4	2.7				
6/7/2018	6.8						1		
6/11/2018		6.8						2	
6/28/2018									2.1
8/7/2018									1.2
9/24/2018									1.3
9/25/2018	7.9	7.8			3.6	2.2			
10/1/2018			1.1	1.4			1.1		
10/2/2018								1.8	
3/27/2019									1.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			1.4	1.5					
3/29/2019							1.2		
4/1/2019								1.7	
4/2/2019						2.5			
4/3/2019	6.9	6.3			3.1				
9/24/2019			1.1	1.3		3.1	0.95 (J)		
9/25/2019					2.8			1.6	
9/26/2019	7	7.1							
10/9/2019									2.1
3/18/2020				1.4					
3/19/2020			1.1				0.97 (J)	1.8	
3/24/2020	7	6.8			2.7	2.8			
3/25/2020									1.9
9/23/2020	7.2	7.2	0.99 (J)	1.2			0.88 (J)		
9/24/2020					2.7	2		1.5	2.7
3/1/2021								1.6	
3/3/2021	7	7.2	0.96 (J)	1.2	2.7		0.86 (J)		
3/4/2021						1.8			4.9
8/19/2021			1.1	1.3				1.6	
8/26/2021		7.3							7.2
8/27/2021	7.4				2.8		0.99 (J)		
9/1/2021						1.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		1.3					
6/2/2016	1.4				3.7	7.2	4.3
7/25/2016		1.3					
7/26/2016	1.6				3.6	6.6	4.4
8/30/2016				5.2			
9/14/2016		1.3			3.4	6.6	3.8
9/15/2016	1.5						
11/1/2016	1.7	1.4					
11/2/2016					4.5	7.6	
11/4/2016							4.8
11/14/2016				6.4			
1/11/2017	1.2	1.1					
1/12/2017						6.8	3.8
1/13/2017					4.2		
2/24/2017				5.5			
3/1/2017		1.1					
3/2/2017	1.2						
3/6/2017					3.6		
3/7/2017						6.8	4.5
4/26/2017	1.2	1.1					
5/1/2017					4.3	7.2	
5/2/2017							4.6
5/8/2017				5.8			
6/27/2017						7	4.3
6/28/2017	1.3	1.2					
6/29/2017					4.2		
7/11/2017				5.8			
10/3/2017						6.5	4.2
10/4/2017	1.5	1.2					
10/5/2017					4.7		
10/10/2017				5.9			
10/12/2017			3.8				
11/20/2017			4.4				
1/10/2018			4.6				
2/19/2018			4.6				
4/2/2018				4.8			
4/3/2018			5.9				
6/6/2018						4.7	
6/7/2018	1.2				4.4		4.5
6/8/2018		1.2					
6/28/2018			5				
8/7/2018			4.3				
9/19/2018				4			
9/24/2018			4.9				
9/26/2018					4.8	4.8	5.1
10/1/2018	1.5	1.2					
3/26/2019			4.4				
3/27/2019				4.3			
4/1/2019	1.2	1.1					
4/3/2019					4.3	4	4.2
9/24/2019						3.7	4.5
9/25/2019	1.1	1.1			4.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				4.4			
10/9/2019			5.1				
3/17/2020				4.1			
3/19/2020	1.2	1.1					
3/24/2020			4.7			3.5	4.3
3/25/2020					3.9		
9/22/2020				4.2	4.5	3.6	4.2
9/23/2020	1.1	1					
9/24/2020			5				
3/1/2021				3.7			
3/2/2021						3.2	4.3
3/3/2021	1.1	0.99 (J)			4.1		
3/4/2021			4.9				
8/19/2021	1.1			3.5			
8/26/2021					4.4	3.4	4.3
8/27/2021		1.1					
9/3/2021			5.5				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	0.01								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	<0.005								
12/5/2003	<0.005								
9/22/2004	0.0067								
5/1/2007		0.0029							
9/11/2007		0.0084							
3/20/2008		0.0027							
8/27/2008		0.0026							
3/3/2009		0.0022							
9/9/2009								<0.005	
11/18/2009		0.0036						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		0.0062			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005						<0.005	
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011		<0.005	<0.005					0.0018	
3/4/2012						<0.005			
3/5/2012		<0.005	<0.005		<0.005		<0.005	<0.005	
3/6/2012				<0.005					
9/5/2012			<0.005		<0.005		<0.005	0.0013	
9/10/2012		<0.005				<0.005			
9/11/2012				<0.005					
2/5/2013			<0.005				<0.005	<0.005	
2/6/2013		<0.005		<0.005	<0.005	<0.005			
8/12/2013		<0.005							
8/13/2013			<0.005	0.0017	0.0019			0.0025	
8/14/2013						<0.005	0.0016		
2/4/2014			<0.005	<0.005		<0.005		0.0013	
2/5/2014		0.0059			0.0023		0.0018		
8/4/2014					0.002	<0.005	0.0029		
8/5/2014		<0.005	<0.005	<0.005				0.0018	
2/2/2015			0.0028	<0.005		<0.005			
2/3/2015					0.0014		0.0017	0.0015	
2/4/2015		<0.005							
8/3/2015		0.0011 (J)			0.0012 (JD)	<0.005 (D)	0.0028 (D)		
8/4/2015			<0.005 (D)	<0.005				0.0028	
2/16/2016		<0.005	<0.005		0.0017	<0.005	0.0028	0.001 (J)	
2/17/2016				<0.005					
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016		<0.005	0.0012 (J)	<0.005	0.0013 (J)				
9/1/2016						<0.005	0.0021 (J)	0.0015 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									<0.005
11/2/2016									<0.005
11/28/2016		<0.005		<0.005					
11/29/2016			0.0009 (J)					0.0014 (J)	
11/30/2016					0.001 (J)	0.0013 (J)			
12/1/2016							0.0017 (J)		
1/10/2017									<0.005
2/22/2017		<0.005		<0.005					
2/23/2017			0.001 (J)		0.0012 (J)			0.0017 (J)	
2/24/2017						<0.005	0.0018 (J)		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		<0.005							
5/9/2017			0.0011 (J)		0.0016 (J)				
5/10/2017				0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)	
6/30/2017									<0.005
7/17/2017		<0.005					0.0017 (J)		
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)	
10/16/2017		<0.005					0.0023 (J)		
10/17/2017			0.001 (J)	<0.005		<0.005			
10/18/2017					0.001 (J)			0.0012 (J)	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		<0.005		
3/27/2018									<0.005
8/6/2018		<0.005						<0.005	
8/7/2018			<0.005		<0.005		0.0024 (J)		
8/8/2018				<0.005		<0.005			
2/25/2019		<0.005						<0.005	
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.0019 (J)		<0.005
3/29/2019									<0.005
6/12/2019		<0.005		<0.005		<0.005			
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)	
8/19/2019		<0.005				0.00051 (J)			
8/20/2019			0.0011 (J)	<0.005				0.0017 (J)	
8/21/2019					0.001 (J)		0.0024 (J)		
9/25/2019									<0.005
10/8/2019		<0.005						0.0014 (J)	
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)		
10/10/2019					0.0014 (J)	0.00057 (J)			
2/12/2020									<0.005
3/17/2020		<0.005	0.001 (J)		0.0013 (J)			0.0013 (J)	
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)		<0.005
8/26/2020		<0.005							
8/27/2020			0.0013 (J)				0.0022 (J)	0.0012 (J)	
8/28/2020				0.00057 (J)	0.00088 (J)	<0.005			
9/22/2020		<0.005	0.0012 (J)	<0.005	0.0011 (J)	<0.005			
9/23/2020							0.002 (J)	0.0015 (J)	
9/25/2020									<0.005
2/10/2021									<0.005
3/1/2021			0.0012 (J)	<0.005		<0.005			
3/2/2021		<0.005			0.001 (J)		0.0021 (J)		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								0.0014 (J)	
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.0035	<0.005				
6/2/2016									<0.005
6/6/2016		0.0012 (J)	<0.005						
6/7/2016	<0.005					<0.005	<0.005		
7/25/2016					<0.005				<0.005
7/26/2016				<0.005					
7/27/2016	0.0008 (J)	0.0007 (J)	0.0006 (J)			0.0005 (J)			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005				<0.005	<0.005		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				<0.005		
11/4/2016					<0.005			<0.005	
12/15/2016								<0.005	
1/11/2017	<0.005	<0.005	<0.005	<0.005					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			<0.005	<0.005
2/21/2017									<0.005
3/1/2017		0.0012 (J)	<0.005						
3/2/2017	0.001 (J)			0.0009 (J)	0.0004 (J)				
3/3/2017								0.0005 (J)	
3/6/2017						<0.005	<0.005		
4/26/2017		0.0005 (J)	0.0003 (J)			0.0007 (J)	<0.005		0.0016 (J)
4/27/2017				<0.005	<0.005				
4/28/2017								0.0004 (J)	
5/2/2017	0.0007 (J)								
5/26/2017								<0.005	
6/27/2017				<0.005	<0.005				
6/28/2017		0.0006 (J)	<0.005					<0.005	
6/29/2017	0.0006 (J)					0.0005 (J)	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
2/26/2019									<0.005
2/27/2019				<0.005	<0.005			<0.005	
3/5/2019	<0.005		<0.005			<0.005	<0.005		
3/6/2019		<0.005							
3/28/2019				<0.005	0.0021 (J)				
3/29/2019								<0.005	
4/1/2019									<0.005
9/24/2019				0.00072 (J)	0.0028 (J)			<0.005	
9/25/2019									<0.005
2/10/2020				0.00042 (J)	<0.005				
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)					<0.005	
2/12/2020						0.00045 (J)	<0.005		<0.005
3/18/2020					0.00044 (J)				
3/19/2020				0.00084 (J)				0.00048 (J)	<0.005
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)			0.00077 (J)	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)			<0.005	
9/24/2020						0.00076 (J)	<0.005		<0.005
2/9/2021		0.00083 (J)	0.0013 (J)			0.00056 (J)	<0.005		
2/10/2021								<0.005	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005	<0.005		<0.005	
3/4/2021							<0.005		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		0.0013 (J)				<0.005	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				<0.005	<0.005	<0.005
8/30/2016					<0.005			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					0.0093 (J)			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					<0.005			
3/1/2017			0.0004 (J)					
3/2/2017		0.0006 (J)						
3/6/2017						<0.005		
3/7/2017							<0.005	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	0.0004 (J)	
5/2/2017								<0.005
5/8/2017					<0.005			
6/27/2017							<0.005	<0.005
6/28/2017		<0.005	<0.005					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					<0.005			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					<0.005			
9/24/2018	<0.005			<0.005				
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
8/20/2019					<0.005			
8/21/2019	<0.005			0.00053 (J)				
9/25/2019		0.0014 (J)	0.0019 (J)					
10/9/2019	<0.005			0.0012 (J)				
2/11/2020			<0.005					
2/12/2020	<0.005	<0.005		0.00065 (J)		<0.005	<0.005	0.00043 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/19/2020		<0.005	<0.005					
3/24/2020				0.00055 (J)			<0.005	0.0014 (J)
3/25/2020	<0.005					0.00058 (J)		
8/27/2020					<0.005			
9/22/2020					<0.005	<0.005	0.0011 (J)	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	<0.005	<0.005	<0.005				
3/1/2021					<0.005			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			0.0013 (J)		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.013								
9/20/1999	<0.005								
9/12/2001	0.0024								
9/3/2002	<0.005								
7/29/2003	0.002								
12/5/2003	<0.005								
9/22/2004	<0.005								
5/1/2007		0.0067							
9/11/2007		<0.005							
3/20/2008		<0.005							
8/27/2008		<0.005							
3/3/2009		<0.005							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		0.0027						<0.005	
9/7/2010								<0.005	
9/8/2010		0.007							
11/22/2010				0.038		<0.005			
1/4/2011				0.049		0.0036			
2/17/2011				0.044		0.0035			
3/10/2011		<0.005						<0.005	
3/11/2011				0.038		0.0053			
3/28/2011				0.029		<0.005			
9/7/2011				0.031	<0.005	0.0033	<0.005		
9/8/2011		<0.005	0.015					<0.005	
3/4/2012						0.0032			
3/5/2012		0.0032	<0.005		<0.005		<0.005	<0.005	
3/6/2012				0.021					
9/5/2012			0.0018		<0.005		<0.005	<0.005	
9/10/2012		<0.005				0.0067			
9/11/2012				0.017					
2/5/2013			0.0013				<0.005	<0.005	
2/6/2013		<0.005		0.025	<0.005	0.0024			
8/12/2013		0.0045							
8/13/2013			<0.005	0.023	<0.005			<0.005	
8/14/2013						0.0014	<0.005		
2/4/2014			<0.005	0.019		<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005		
8/4/2014					<0.005	<0.005	<0.005		
8/5/2014		0.0027	<0.005	0.023				<0.005	
2/2/2015			0.0015	0.022		<0.005			
2/3/2015					<0.005		<0.005	<0.005	
2/4/2015		0.0016							
8/3/2015		0.002			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015			<0.005 (D)	0.021				0.0014	
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005	<0.005	
2/17/2016				0.024					
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005				
9/1/2016						0.0023 (J)	<0.005	<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									<0.005
11/2/2016									<0.005
11/28/2016		0.0036 (J)		0.0189					
11/29/2016			<0.005					<0.005	
11/30/2016					<0.005	0.0008 (J)			
12/1/2016							<0.005		
1/10/2017									<0.005
2/22/2017		0.0049 (J)		0.0184					
2/23/2017			0.0009 (J)		<0.005			<0.005	
2/24/2017						0.0025 (J)	<0.005		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		0.0059 (J)							
5/9/2017			0.0008 (J)		<0.005				
5/10/2017				0.0213		<0.005	<0.005	<0.005	
6/30/2017									<0.005
7/17/2017		0.0046 (J)					<0.005		
7/18/2017			0.0032 (J)	0.0261	<0.005	0.0005 (J)		<0.005	
10/16/2017		0.0034 (J)					<0.005		
10/17/2017			0.0007 (J)	0.0182		0.0006 (J)			
10/18/2017					<0.005			<0.005	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		<0.005		
3/27/2018									<0.005
6/8/2018									<0.005
8/6/2018		0.003 (J)						<0.005	
8/7/2018			<0.005		<0.005		<0.005		
8/8/2018				0.014		0.001 (J)			
10/1/2018									<0.005
2/25/2019		0.001 (J)						<0.005	
2/26/2019			<0.005	0.029	<0.005	<0.005	<0.005		<0.005
3/29/2019									<0.005
6/12/2019		0.003 (J)		0.013		0.00078 (J)			
6/13/2019			0.00033 (J)		0.01		<0.005	<0.005	
8/19/2019		0.0035 (J)				0.001 (J)			
8/20/2019			0.00079 (J)	0.014				<0.005	
8/21/2019					0.0016 (J)		0.00034 (J)		
9/25/2019									<0.005
10/8/2019		0.0039 (J)						<0.005	
10/9/2019			0.00064 (J)	0.024			0.00031 (J)		
10/10/2019					<0.005	0.00099 (J)			
2/12/2020									<0.005
3/17/2020		0.003 (J)	0.00054 (J)		0.011			<0.005	
3/18/2020				0.019		0.0031 (J)	0.00044 (J)		<0.005
8/26/2020		0.2 (o)							
8/27/2020			0.00081 (J)				<0.005	<0.005	
8/28/2020				0.0072	0.0041 (J)	0.00049 (J)			
9/22/2020		0.16 (o)	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)			
9/23/2020							<0.005	<0.005	
9/25/2020									<0.005
2/10/2021									<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)			
3/2/2021		0.21 (o)			0.0086		0.00039 (J)		<0.005
3/3/2021								<0.005	
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)	<0.005	
8/19/2021									<0.005
8/20/2021		0.074 (o)							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.005	0.00082 (J)				
6/2/2016									0.035
6/6/2016		<0.005	0.00061 (J)						
6/7/2016	<0.005					<0.005	0.0056		
7/25/2016					0.0008 (J)				0.0312
7/26/2016				<0.005					
7/27/2016	<0.005	<0.005	0.0004 (J)			<0.005			
7/28/2016							0.0032 (J)		
9/13/2016				<0.005	0.0009 (J)				
9/14/2016								<0.005	
9/16/2016	<0.005		0.0008 (J)						
9/19/2016		<0.005				<0.005	0.0047 (J)		0.0275
11/1/2016				<0.005					0.0255
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				0.013		
11/4/2016					0.0025 (J)			<0.005	
12/15/2016								<0.005	
1/11/2017	<0.005	<0.005	<0.005	<0.005					
1/13/2017						<0.005	0.011		
1/16/2017					0.0027 (J)			<0.005	0.0245
2/21/2017									0.0272
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005			<0.005	0.0022 (J)				
3/3/2017								<0.005	
3/6/2017						<0.005	0.011		
4/26/2017		<0.005	<0.005			<0.005	0.009 (J)		0.0244
4/27/2017				<0.005	0.0018 (J)				
4/28/2017								<0.005	
5/2/2017	<0.005								
5/26/2017								<0.005	
6/27/2017				<0.005	0.0023 (J)				
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017	<0.005					<0.005	0.0093 (J)		
6/30/2017									0.0233
3/27/2018					<0.005				0.023
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
6/5/2018				<0.005			0.0041 (J)		
6/6/2018					<0.005	<0.005			
6/7/2018		<0.005						<0.005	
6/11/2018	<0.005		<0.005						0.023
9/25/2018	<0.005	<0.005	<0.005			<0.005	0.0044 (J)		
10/1/2018				<0.005	0.00059 (J)			<0.005	
10/2/2018									0.022
2/26/2019									0.021
2/27/2019				<0.005	0.00064 (J)			<0.005	
3/5/2019	<0.005		<0.005			<0.005	0.0039 (J)		
3/6/2019		<0.005							
3/28/2019				<0.005	0.00091 (J)				
3/29/2019								<0.005	
4/1/2019									0.022
4/2/2019	<0.005						0.0039 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				<0.005	0.0013 (J)		0.0032 (J)	<0.005	
9/25/2019	<0.005					<0.005			0.016
9/26/2019		<0.005	<0.005						
2/10/2020				<0.005	0.0016 (J)				
2/11/2020	<0.005	<0.005	<0.005					<0.005	
2/12/2020						<0.005	0.0081		0.014
3/18/2020					0.00087 (J)				
3/19/2020				<0.005				<0.005	0.014
3/24/2020	<0.005	<0.005	<0.005			<0.005	0.0061		
9/23/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)			<0.005	
9/24/2020						<0.005	0.0079		0.0064
2/9/2021		<0.005	<0.005			<0.005	0.009		
2/10/2021								<0.005	
2/11/2021									0.0078
2/12/2021				0.00086 (J)	0.0028 (J)				
3/1/2021									0.0061
3/3/2021	<0.005	<0.005	<0.005	<0.005	0.003 (J)	<0.005		<0.005	
3/4/2021							0.0065		
8/19/2021				0.00055 (J)	0.0017 (J)				0.0052
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							0.0068		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				0.00082 (J)	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				0.0012 (J)	<0.005	<0.005
8/30/2016					0.0073 (J)			
9/14/2016			<0.005			0.0006 (J)	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					0.0115			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						0.0029 (J)		
2/24/2017					0.0106			
3/1/2017			<0.005					
3/2/2017		<0.005						
3/6/2017						0.0006 (J)		
3/7/2017							<0.005	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	<0.005	
5/2/2017								<0.005
5/8/2017					0.0099 (J)			
6/27/2017							<0.005	<0.005
6/28/2017		<0.005	<0.005					
6/29/2017						0.0005 (J)		
7/11/2017					0.0096 (J)			
10/10/2017					0.0036 (J)			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							<0.005	
6/7/2018		<0.005				0.00058 (J)		<0.005
6/8/2018			<0.005					
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					0.0036 (J)			
9/24/2018	<0.005			<0.005				
9/26/2018						<0.005	<0.005	<0.005
10/1/2018		<0.005	<0.005					
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						0.00083 (J)	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					0.00092 (J)			
8/21/2019	0.00034 (J)			<0.005				
9/24/2019							<0.005	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/8/2019					0.0014 (J)			
10/9/2019	<0.005			<0.005				
2/11/2020			<0.005					
2/12/2020	0.00034 (J)	<0.005		<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020					0.0017 (J)			
3/19/2020		<0.005	<0.005					
3/24/2020				<0.005			0.00035 (J)	<0.005
3/25/2020	0.00034 (J)					0.00056 (J)		
8/27/2020					0.0011 (J)			
9/22/2020					0.00097 (J)	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	0.00053 (J)			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	0.00098 (J)	<0.005	<0.005	<0.005				
3/1/2021					0.001 (J)			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			<0.005		
3/4/2021	0.00071 (J)			<0.005				
8/19/2021		<0.005			0.00099 (J)			
8/26/2021	0.0011 (J)					0.00042 (J)	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								0.329 (U)	
6/7/2016									0.158 (U)
7/26/2016								1.51	
7/27/2016									0.0354 (U)
8/31/2016	1.2								
9/15/2016								1.04 (U)	
9/16/2016									1.04
11/2/2016								0.496 (U)	
11/3/2016									0.314 (U)
11/28/2016	0.264 (U)		0.387 (U)						
11/29/2016		0.551 (U)					0.232 (U)		
11/30/2016				0.0236 (U)	0.477 (U)				
12/1/2016						0.0588 (U)			
1/10/2017								0.376 (U)	
1/11/2017									0.34 (U)
2/22/2017	1.06 (U)		0.739 (U)						
2/23/2017		0.504 (U)		0.728 (U)			1.18 (U)		
2/24/2017					0.305 (U)	0.487 (U)			
3/2/2017									0.746 (U)
3/8/2017								0.0745 (U)	
4/26/2017								0.282 (U)	
5/2/2017									0.111 (U)
5/8/2017	0.187 (U)								
5/9/2017		0.434 (U)		0.0367 (U)					
5/10/2017			0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)		
6/29/2017									0.576 (U)
6/30/2017								0.994	
7/17/2017	1.42					0.528 (U)			
7/18/2017		1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)		
10/16/2017	1.17					0.558 (U)			
10/17/2017		0.937 (U)	0.402 (U)		0.294 (U)				
10/18/2017				0.706 (U)			0.239 (U)		
2/19/2018	1.58 (D)						0.973 (D)		
2/20/2018			1.64 (D)		1.03 (UD)				
2/21/2018		0.817 (UD)		0.526 (UD)		1.13 (UD)			
3/27/2018								0.189 (U)	
3/28/2018									0.438 (U)
6/8/2018								0.218 (U)	
6/11/2018									0.901 (U)
8/6/2018	0.196 (U)						0.866 (U)		
8/7/2018		0.578 (U)		0.376 (U)		0.51 (U)			
8/8/2018			2.01		0.0378 (U)				
9/25/2018									0.68 (U)
10/1/2018								1.24	
2/26/2019								0.202 (U)	
3/5/2019									0.272 (U)
3/29/2019								0 (U)	
4/2/2019									0.847 (U)
8/19/2019	1.39				0.637 (U)				
8/20/2019		1.25 (U)	1.22				0.409 (U)		
8/21/2019				0.774 (U)		1.82			
9/25/2019								0.707 (U)	0.412 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	1.32 (U)						0.91 (U)		
10/9/2019		0.482 (U)	0.71 (U)			0.498 (U)			
10/10/2019				0.433 (U)	0.525 (U)				
2/11/2020									0.461 (U)
2/12/2020								1.07 (U)	
3/17/2020	1 (U)	1.4		2.84			2.5		
3/18/2020			1.3		0.866 (U)	0.788 (U)		0.207 (U)	
3/24/2020									0.534 (U)
8/26/2020	1.75 (U)								
8/27/2020		0.413 (U)				0.691 (U)	0.514 (U)		
8/28/2020			1.52 (U)	0.494 (U)	0.336 (U)				
9/22/2020	0.688 (U)	0.7 (U)	2.09	1.24 (U)	0.509 (U)				
9/23/2020						0 (U)	0.96 (U)		0.466 (U)
9/25/2020								0.603 (U)	
2/9/2021									0.529 (U)
2/10/2021								0.353 (U)	
3/1/2021		0.966 (U)	0.976		0.349 (U)				
3/2/2021	0.948 (U)			1.13 (U)		0.686 (U)		0.71 (U)	
3/3/2021							0.721 (U)		0.59 (U)
8/18/2021		0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)		
8/19/2021								0.786 (U)	
8/20/2021	0.528 (U)								
8/27/2021									0.9 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.321 (U)	0.42					
6/2/2016								0.0652 (U)	
6/6/2016	0.0804 (U)	0.301 (U)							
6/7/2016					0.0191 (U)	0.347			
7/25/2016				1.83				3.01	
7/26/2016			0.707 (U)						
7/27/2016	0.206 (U)	0.196 (U)			0.541 (U)				
7/28/2016						0.815 (U)			
9/13/2016			1.22	0.841					
9/14/2016							0.98 (U)		
9/16/2016		0.915 (U)							
9/19/2016	1.58				0.826 (U)	0.862 (U)		0.871 (U)	
11/1/2016			0.805 (U)					0.307 (U)	
11/2/2016					0.791 (U)				
11/3/2016	0.342 (U)	0.928 (U)				0.797 (U)			
11/4/2016				0.166 (U)			0.277 (U)		
12/15/2016							0.071 (U)		
1/11/2017	0.365 (U)	0.502 (U)	0.705 (U)						
1/13/2017					0.296 (U)	0.72 (U)			
1/16/2017				0			0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
3/1/2017	0.395 (U)	0.202 (U)							
3/2/2017			0.251 (U)	0.504 (U)					
3/3/2017							0.448 (U)		
3/6/2017					0.518 (U)	0.518 (U)			
4/26/2017	0.507 (U)	0.264 (U)			0.282 (U)	1.13 (U)		0.204 (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	0.892	0.636 (U)					0.608 (U)		
6/29/2017					1.12	0.841 (U)			
6/30/2017								0.738 (U)	
10/11/2017									0.586 (U)
11/20/2017									0.816 (U)
1/11/2018									0.841 (U)
2/20/2018									1.58
3/27/2018				0.39 (U)				0.31 (U)	
3/28/2018	0.92 (U)	0.56 (U)					0.412 (U)		
3/29/2018			0.503 (U)		1.73	1.91			
4/3/2018									0.385 (U)
6/5/2018			0.771 (U)			1.39			
6/6/2018				2.8	0.694 (U)				
6/7/2018	0.668 (U)						0.73 (U)		
6/11/2018		0.649 (U)						0.608 (U)	
6/28/2018									0.283 (U)
8/7/2018									0.332 (U)
9/24/2018									0.767 (U)
9/25/2018	0.141 (U)	0.574 (U)			0.772 (U)	1.62			
10/1/2018			0.783 (U)	1.06 (U)			0.756 (U)		
10/2/2018								0.97 (U)	
2/26/2019								0.524 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/27/2019			1.21 (U)	0.637 (U)			0.635 (U)		
3/5/2019		0.474 (U)			0.84 (U)	0.985 (U)			
3/6/2019	0.714 (U)								
3/28/2019			1.13 (U)	0.125 (U)					
3/29/2019							0.224 (U)		
4/1/2019								1.02 (U)	
4/2/2019						1.42			
4/3/2019	0.385 (U)	0.429 (U)			1.01				
8/21/2019									1.01 (U)
9/24/2019			1.22 (U)	0.949 (U)		1.35	0.429 (U)		
9/25/2019					1.18 (U)			1.02 (U)	
9/26/2019	0.386 (U)	0.222 (U)							
10/8/2019									1.02 (U)
2/10/2020			1.41	1.25 (U)					
2/11/2020	1.48	0.597 (U)					0.817 (U)		
2/12/2020					1.11 (U)	1.61		0.301 (U)	0.45 (U)
3/18/2020				0.458 (U)					
3/19/2020			1.1				0.715 (U)	1	
3/24/2020	0.632 (U)	0.262 (U)			1.88	1.24 (U)			
3/25/2020									0.377 (U)
9/23/2020	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)			0.565 (U)		
9/24/2020					0.611 (U)	1.8		0.684 (U)	0.568 (U)
2/9/2021	0.314 (U)	0.259 (U)			0.284 (U)	1.24			
2/10/2021							1.04 (U)		0.518 (U)
2/11/2021								0.678 (U)	
2/12/2021			0.366 (U)	0.458 (U)					
3/1/2021								0.412 (U)	
3/3/2021	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)	1.2	0.459 (U)		
3/4/2021									0.636 (U)
8/19/2021			1.17 (U)	0.0732 (U)				0.234 (U)	
8/26/2021		0.686 (U)							0.674 (U)
8/27/2021	0.761 (U)				0.779 (U)		0.409 (U)		
9/1/2021						1.86			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.896					
6/2/2016	2.51				0.721	5.11	0.614
7/25/2016		2.28					
7/26/2016	3.82				1.26	6.92	1.47
8/30/2016				1.09			
9/14/2016		0.821 (U)			0.901 (U)	3.96	1.27
9/15/2016	4.24						
11/1/2016	3.92	0.585 (U)					
11/2/2016					1.09 (U)	4.53	
11/4/2016							0.434 (U)
12/15/2016				1 (U)			
1/11/2017	2.52	1.22					
1/12/2017						4.43	0.202 (U)
1/13/2017					1.19		
2/24/2017				0.504 (U)			
3/1/2017		0.877 (U)					
3/2/2017	3.13						
3/6/2017					0.669 (U)		
3/7/2017						4.8	0.0674 (U)
4/26/2017	2.35	0.672 (U)					
5/1/2017					0.803 (U)	4.16	
5/2/2017							0.444 (U)
5/8/2017				0.455 (U)			
6/27/2017						2.8	0.77 (U)
6/28/2017	2.6	1.07 (U)					
6/29/2017					1.35		
7/11/2017				0.471 (U)			
10/10/2017				0.649 (U)			
10/12/2017			1.49				
11/20/2017			0.918 (U)				
1/10/2018			1.05				
2/19/2018			2.05				
3/28/2018	3	0.65 (U)					
3/29/2018					0.703 (U)	3.42	0.648 (U)
4/2/2018				0.512 (U)			
4/3/2018			0.68 (U)				
6/6/2018						3.99	
6/7/2018	2.79				0.628 (U)		0.745 (U)
6/8/2018		1.89					
6/28/2018			1.28				
8/7/2018			1.16				
9/19/2018				0.789 (U)			
9/24/2018			0.965 (U)				
9/26/2018					0.756 (U)	2.73	0.377 (U)
10/1/2018	3.14	1.58					
2/27/2019	3.79	3.67					
3/4/2019					1.21 (U)	4.43	1 (U)
4/1/2019	4.33	2.28					
4/3/2019					1.07 (U)	4.79	0.43 (U)
8/20/2019				2.44			
8/21/2019			1.24 (U)				
9/24/2019						4.06	0.699 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/25/2019	4.2	1.6			1.86		
10/8/2019			0.866 (U)	1.72			
2/11/2020	3.87	1.85					
2/12/2020			1.83		1.25	4.02	0.913 (U)
3/17/2020				1.22 (U)			
3/19/2020	3.96	2.2					
3/24/2020			1.27 (U)			3.52	
3/25/2020					0.766 (U)		
8/27/2020				1.26 (U)			
9/22/2020				1.06 (U)	0.795 (U)	2.98	0.428 (U)
9/23/2020	4.14	1.14 (U)					
9/24/2020			0.634 (U)				
2/8/2021						2.89	0.613 (U)
2/9/2021					0.626 (U)		
2/10/2021	3.65	2.46	0.783 (U)				
3/1/2021				1.2			
3/2/2021						1.67	0.579 (U)
3/3/2021	3.58	2.03			1		
3/4/2021			0.818 (U)				
8/19/2021	3.53			1.07 (U)			
8/26/2021					1.17 (U)	4.68	0.798 (U)
8/27/2021		1.34					
9/3/2021			0.971 (U)				

Time Series

Constituent: Copper (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	<0.005							
9/20/1999	<0.005							
9/12/2001	0.004							
9/3/2002	0.01							
7/29/2003	0.011							
12/5/2003	0.0034							
9/22/2004	0.0033							
5/1/2007		0.0047						
9/11/2007		<0.005						
3/20/2008		<0.005						
8/27/2008		0.0074						
3/3/2009		<0.005						
9/9/2009								0.0028
11/18/2009		0.0029						0.0027
1/5/2010								0.0035
3/3/2010		0.005						<0.005
9/7/2010								<0.005
9/8/2010		<0.005						
11/22/2010				<0.005		<0.005		
1/4/2011				<0.005		0.0049		
2/17/2011				<0.005		<0.005		
3/10/2011		0.0029						<0.005
3/11/2011				<0.005		<0.005		
3/28/2011				<0.005		<0.005		
9/7/2011				<0.005	<0.005	<0.005	<0.005	
9/8/2011		<0.005	<0.005					<0.005
3/4/2012						<0.005		
3/5/2012		<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012				<0.005				
9/5/2012			<0.005		0.016		<0.005	<0.005
9/10/2012		<0.005				<0.005		
9/11/2012				<0.005				
2/5/2013			<0.005				<0.005	<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005		
8/12/2013		<0.005						
8/13/2013			<0.005	<0.005	<0.005			<0.005
8/14/2013						<0.005	<0.005	
2/4/2014			<0.005	<0.005		<0.005		<0.005
2/5/2014		<0.005			<0.005		<0.005	
8/4/2014					0.0012 (J)	<0.005	0.0015 (J)	
8/5/2014		0.005	<0.005	<0.005				0.0012 (J)
2/2/2015			0.0031 (J)	<0.005		<0.005		
2/3/2015					<0.005		<0.005	0.0013 (J)
2/4/2015		0.0025 (J)						
8/3/2015		0.0014 (J)			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015			<0.005 (D)	<0.005				0.0043 (J)
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005	<0.005
2/17/2016				<0.005				
2/22/2017		0.0011 (J)		<0.005				
2/23/2017			<0.005		<0.005			0.0018 (J)
2/24/2017						<0.005	<0.005	
2/19/2018		<0.005						<0.005

Time Series

Constituent: Copper (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/20/2018				<0.005		<0.005		
2/21/2018			<0.005		<0.005		<0.005	
8/6/2018		<0.005						0.0016 (J)
8/7/2018			<0.005		<0.005		<0.005	
8/8/2018				<0.005		<0.005		
2/25/2019		<0.005						0.0016 (J)
2/26/2019			<0.005	<0.005	<0.005	<0.005	<0.005	
6/12/2019		0.00034 (J)		<0.005		0.00025 (J)		
6/13/2019			<0.005		<0.005		0.00049 (J)	0.0011 (J)
10/8/2019		0.00041 (J)						0.0011 (J)
10/9/2019			0.00079 (J)	0.00024 (J)			0.00087 (J)	
10/10/2019					0.00033 (J)	<0.005		
3/17/2020		0.00078 (J)	0.0004 (J)		0.00039 (J)			0.00091 (J)
3/18/2020				<0.005		0.00021 (J)	0.00097 (J)	
9/22/2020		0.0041 (J)	<0.005	<0.005	<0.005	<0.005		
9/23/2020							<0.005	<0.005
3/1/2021			<0.005	<0.005		<0.005		
3/2/2021		0.0027 (J)			<0.005		<0.005	
3/3/2021								<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)	0.00083 (J)
8/20/2021		0.0012 (J)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.1	
6/7/2016									<0.1
7/26/2016								0.02 (J)	
7/27/2016									<0.1
8/31/2016	0.14 (J)	0.05 (J)	0.08 (J)	0.07 (J)					
9/1/2016					0.15 (J)	0.03 (J)	0.28 (J)		
9/15/2016								<0.1	
9/16/2016									<0.1
11/2/2016								<0.1	
11/3/2016									<0.1
11/28/2016	0.12 (J)		0.03 (J)						
11/29/2016		0.04 (J)					0.05 (J)		
11/30/2016				0.03 (J)	0.11 (J)				
12/1/2016						<0.1			
1/10/2017								<0.1	
1/11/2017									<0.1
2/22/2017	0.09 (J)		0.04 (J)						
2/23/2017		0.06 (J)		0.04 (J)			0.07 (J)		
2/24/2017					0.08 (J)	0.03 (J)			
3/2/2017									<0.1
3/8/2017								<0.1	
4/26/2017								<0.1	
5/2/2017									<0.1
5/8/2017	0.05 (J)								
5/9/2017		0.06 (J)		<0.1					
5/10/2017			0.05 (J)		0.04 (J)	<0.1	0.02 (J)		
6/29/2017									<0.1
6/30/2017								<0.1	
7/17/2017	0.14 (J)					0.37			
7/18/2017		<0.1	<0.1	<0.1	<0.1		<0.1		
10/4/2017									<0.1
10/5/2017								<0.1	
10/16/2017	0.12 (J)					<0.1			
10/17/2017		<0.1	<0.1		<0.1				
10/18/2017				0.22 (J)			<0.1		
2/19/2018	0.17						<0.1		
2/20/2018			<0.1		<0.1				
2/21/2018		<0.1		<0.1		<0.1			
3/27/2018								<0.1	
3/28/2018									<0.1
6/8/2018								<0.1	
6/11/2018									<0.1
8/6/2018	0.087 (J)						<0.1		
8/7/2018		<0.1		<0.1		<0.1			
8/8/2018			<0.1		<0.1				
9/25/2018									<0.1
10/1/2018								<0.1	
2/25/2019	0.14 (J)						<0.1		
2/26/2019		<0.1	<0.1	<0.1	<0.1	0.035 (J)		<0.1	
3/5/2019									<0.1
3/29/2019								<0.1	
4/2/2019									<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/12/2019	0.12 (J)		0.58		<0.1				
6/13/2019		<0.1		0.58		<0.1	<0.1		
8/19/2019	<0.1				<0.1				
8/20/2019		<0.1	<0.1				<0.1		
8/21/2019				0.037 (J)		<0.1			
9/25/2019								<0.1	<0.1
10/8/2019	0.052 (J)						<0.1		
10/9/2019		<0.1	<0.1			0.35			
10/10/2019				<0.1	<0.1				
2/11/2020									<0.1
2/12/2020								<0.1	
3/17/2020	0.053 (J)	<0.1		0.1 (J)			<0.1		
3/18/2020			<0.1		<0.1	<0.1		<0.1	
3/24/2020									<0.1
8/26/2020	0.068 (J)								
8/27/2020		<0.1				0.064 (J)	<0.1		
8/28/2020			<0.1	0.097 (J)	<0.1				
9/22/2020	0.058 (J)	<0.1	<0.1	<0.1	<0.1				
9/23/2020						<0.1	<0.1		<0.1
9/25/2020								<0.1	
2/10/2021								<0.1	
3/1/2021		<0.1	<0.1		<0.1				
3/2/2021	0.073 (J)			0.15		0.094 (J)		<0.1	
3/3/2021							<0.1		<0.1
8/18/2021		<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1		
8/19/2021								<0.1	
8/20/2021	0.06 (J)								
8/27/2021									<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.12 (J)	<0.1					
6/2/2016								<0.1	
6/6/2016	<0.1	<0.1							
6/7/2016					<0.1	<0.1			
7/25/2016				0.06 (J)				0.06 (J)	
7/26/2016			0.08 (J)						
7/27/2016	<0.1	<0.1			<0.1				
7/28/2016						0.02 (J)			
9/13/2016			0.11 (J)	<0.1					
9/14/2016							0.08 (J)		
9/16/2016		<0.1							
9/19/2016	<0.1				<0.1	0.02 (J)		<0.1	
11/1/2016			<0.1					<0.1	
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1				<0.1			
11/4/2016				<0.1			<0.1		
12/15/2016							0.06 (J)		
1/11/2017	<0.1	<0.1	0.05 (J)						
1/13/2017					<0.1	<0.1			
1/16/2017				<0.1			0.1 (J)	<0.1	
2/21/2017								<0.1	
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1	<0.1					
3/3/2017							<0.1		
3/6/2017					<0.1	<0.1			
4/26/2017	<0.1	<0.1			<0.1	0.04 (J)		<0.1	
4/27/2017			0.04 (J)	0.01 (J)					
4/28/2017							0.06 (J)		
5/26/2017							0.09 (J)		
6/27/2017			<0.1	<0.1					
6/28/2017	<0.1	<0.1					0.11 (J)		
6/29/2017					<0.1	<0.1			
6/30/2017								<0.1	
10/3/2017			<0.1	<0.1		<0.1	<0.1		
10/4/2017		<0.1			<0.1			<0.1	
10/5/2017	<0.1								
10/11/2017									<0.1
11/20/2017									<0.1
1/11/2018									<0.1
2/20/2018									0.23
3/27/2018				<0.1				<0.1	
3/28/2018	<0.1	<0.1					0.31		
3/29/2018			<0.1		<0.1	<0.1			
4/3/2018									<0.1
6/5/2018			0.055 (J)			0.13 (J)			
6/6/2018				<0.1	<0.1				
6/7/2018	<0.1						0.11 (J)		
6/11/2018		<0.1						<0.1	
6/28/2018									<0.1
8/7/2018									0.048 (J)
9/24/2018									<0.1
9/25/2018	<0.1	<0.1			<0.1	0 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
10/1/2018			<0.1	<0.1			<0.1		
10/2/2018								<0.1	
2/26/2019								<0.1	
2/27/2019			0.052 (J)	<0.1			0.12 (J)		
3/5/2019		<0.1			<0.1	0.32			
3/6/2019	<0.1								
3/27/2019									<0.1
3/28/2019			0.036 (J)	<0.1					
3/29/2019							0.13 (J)		
4/1/2019								<0.1	
4/2/2019						0.12 (J)			
4/3/2019	<0.1	<0.1			<0.1				
8/21/2019									<0.1
9/24/2019			0.063 (J)	<0.1		0.15 (J)	0.081 (J)		
9/25/2019					<0.1			<0.1	
9/26/2019	<0.1	<0.1							
10/9/2019									<0.1
2/10/2020			0.061 (J)	<0.1					
2/11/2020	<0.1	<0.1					0.075 (J)		
2/12/2020					<0.1	0.1 (J)		<0.1	<0.1
3/18/2020				<0.1					
3/19/2020			0.064 (J)				0.093 (J)	<0.1	
3/24/2020	<0.1	<0.1			<0.1	0.081 (J)			
3/25/2020									<0.1
9/23/2020	<0.1	<0.1	0.058 (J)	<0.1			0.08 (J)		
9/24/2020					<0.1	0.079 (J)		<0.1	<0.1
2/9/2021	<0.1	<0.1			<0.1	0.092 (J)			
2/10/2021							0.094 (J)		<0.1
2/11/2021								<0.1	
2/12/2021			0.068 (J)	<0.1					
3/1/2021								<0.1	
3/3/2021	<0.1	<0.1	0.078 (J)	<0.1	<0.1		0.085 (J)		
3/4/2021						0.091 (J)			<0.1
8/19/2021			0.074 (J)	<0.1				<0.1	
8/26/2021		<0.1							0.063 (J)
8/27/2021	<0.1				<0.1		0.12		
9/1/2021						0.11			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.15 (J)					
6/2/2016	0.62				<0.1	0.11 (J)	<0.1
7/25/2016		0.14 (J)					
7/26/2016	0.49				<0.1	0.05 (J)	<0.1
8/30/2016				0.09 (J)			
9/14/2016		0.18 (J)			<0.1	0.04 (J)	<0.1
9/15/2016	0.54						
11/1/2016	0.68	<0.1					
11/2/2016					<0.1	<0.1	
11/4/2016							<0.1
11/14/2016				0.18 (J)			
1/11/2017	0.49	0.09 (J)					
1/12/2017						0.04 (J)	<0.1
1/13/2017					<0.1		
2/24/2017				0.05 (J)			
3/1/2017		<0.1					
3/2/2017	0.48						
3/6/2017					<0.1		
3/7/2017						<0.1	<0.1
4/26/2017	0.48	0.08 (J)					
5/1/2017					<0.1	<0.1	
5/2/2017							<0.1
5/8/2017				0.03 (J)			
6/27/2017						<0.1	<0.1
6/28/2017	0.47	0.12 (J)					
6/29/2017					<0.1		
7/11/2017				0.07 (J)			
10/3/2017						<0.1	<0.1
10/4/2017	<0.1	<0.1					
10/5/2017					<0.1		
10/10/2017				<0.1			
10/12/2017			<0.1				
11/20/2017			<0.1				
1/10/2018			<0.1				
2/19/2018			<0.1				
3/28/2018	0.56	<0.1					
3/29/2018					<0.1	<0.1	<0.1
4/2/2018				<0.1			
4/3/2018			<0.1				
6/6/2018						0.15 (J)	
6/7/2018	0.48				<0.1		<0.1
6/8/2018		0.2 (J)					
6/28/2018			<0.1				
8/7/2018			<0.1				
9/19/2018				<0.1			
9/24/2018			<0.1				
9/26/2018					<0.1	<0.1	<0.1
10/1/2018	0.44	<0.1					
2/27/2019	0.53	0.13 (J)					
3/4/2019					<0.1	0.19 (J)	<0.1
3/26/2019			<0.1				
3/27/2019				0.081 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019	0.45	0.1 (J)					
4/3/2019					<0.1	0.047 (J)	<0.1
8/20/2019				<0.1			
8/21/2019			<0.1				
9/24/2019						0.05 (J)	<0.1
9/25/2019	0.46	0.1 (J)			<0.1		
10/8/2019				0.034 (J)			
10/9/2019			<0.1				
2/11/2020		0.094 (J)					
2/12/2020	0.4		<0.1		<0.1	<0.1	<0.1
3/17/2020				<0.1			
3/19/2020	0.51	0.11 (J)					
3/24/2020			<0.1			<0.1	<0.1
3/25/2020					<0.1		
8/27/2020				<0.1			
9/22/2020				<0.1	<0.1	0.056 (J)	<0.1
9/23/2020	0.47	0.098 (J)					
9/24/2020			<0.1				
2/8/2021						0.055 (J)	<0.1
2/9/2021					<0.1		
2/10/2021	0.43	<0.1	<0.1				
3/1/2021				<0.1			
3/2/2021						<0.1	<0.1
3/3/2021	0.44	0.1			<0.1		
3/4/2021			<0.1				
8/19/2021	0.47			<0.1			
8/26/2021					<0.1	0.061 (J)	<0.1
8/27/2021		0.12					
9/3/2021			<0.1				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.006								
9/20/1999	<0.001								
9/12/2001	0.0042								
9/3/2002	<0.001								
7/29/2003	0.015								
12/5/2003	<0.001								
9/22/2004	<0.001								
5/1/2007		<0.001							
9/11/2007		<0.001							
3/20/2008		<0.001							
8/27/2008		<0.001							
3/3/2009		<0.001							
9/9/2009								<0.001	
11/18/2009		<0.001						<0.001	
1/5/2010								<0.001	
3/3/2010		<0.001						<0.001	
9/7/2010								<0.001	
9/8/2010		<0.001							
11/22/2010				<0.001		<0.001			
1/4/2011				<0.001		<0.001			
2/17/2011				<0.001		<0.001			
3/10/2011		<0.001						<0.001	
3/11/2011				<0.001		<0.001			
3/28/2011				<0.001		<0.001			
9/7/2011				<0.001	<0.001	<0.001	<0.001		
9/8/2011		<0.001	<0.001					<0.001	
3/4/2012						<0.001			
3/5/2012		<0.001	<0.001		<0.001		<0.001	<0.001	
3/6/2012				<0.001					
9/5/2012			<0.001		<0.001		<0.001	<0.001	
9/10/2012		<0.001				<0.001			
9/11/2012				<0.001					
2/5/2013			<0.001				<0.001	<0.001	
2/6/2013		<0.001		<0.001	<0.001	<0.001			
8/12/2013		<0.001							
8/13/2013			<0.001	<0.001	<0.001			<0.001	
8/14/2013						<0.001	<0.001		
2/4/2014			<0.001	<0.001		<0.001		<0.001	
2/5/2014		<0.001			<0.001		<0.001		
8/4/2014					<0.001	<0.001	<0.001		
8/5/2014		<0.001	<0.001	<0.001				<0.001	
2/2/2015			<0.001	<0.001		<0.001			
2/3/2015					<0.001		<0.001	<0.001	
2/4/2015		<0.001							
8/3/2015		<0.001			<0.001 (D)	<0.001 (D)	<0.001 (D)		
8/4/2015			<0.001 (D)	<0.001				<0.001	
2/16/2016		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
2/17/2016				<0.001					
6/2/2016									<0.001
7/26/2016									<0.001
8/31/2016		<0.001	<0.001	<0.001	0.0001 (J)				
9/1/2016						<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									<0.001
11/2/2016									<0.001
11/28/2016		<0.001		<0.001					
11/29/2016			<0.001					<0.001	
11/30/2016					<0.001	<0.001			
12/1/2016							<0.001		
1/10/2017									<0.001
2/22/2017		<0.001		<0.001					
2/23/2017			<0.001		<0.001			<0.001	
2/24/2017						<0.001	<0.001		
3/8/2017									0.0001 (J)
4/26/2017									<0.001
5/8/2017		<0.001							
5/9/2017			<0.001		<0.001				
5/10/2017				0.0001 (J)		<0.001	<0.001	<0.001	
6/30/2017									<0.001
7/17/2017		<0.001					<0.001		
7/18/2017			<0.001	7E-05 (J)	<0.001	<0.001		<0.001	
10/16/2017		<0.001					<0.001		
10/17/2017			<0.001	<0.001		<0.001			
10/18/2017					8E-05 (J)			<0.001	
2/19/2018		<0.001						<0.001	
2/20/2018				<0.001		<0.001			
2/21/2018			<0.001		<0.001		<0.001		
3/27/2018									<0.001
8/6/2018		<0.001						<0.001	
8/7/2018			<0.001		<0.001		<0.001		
8/8/2018				<0.001		<0.001			
2/25/2019		<0.001						<0.001	
2/26/2019			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
6/12/2019		<0.001		<0.001		<0.001			
6/13/2019			<0.001		<0.001		<0.001	<0.001	
8/19/2019		<0.001				<0.001			
8/20/2019			<0.001	6.1E-05 (J)				<0.001	
8/21/2019					8.2E-05 (J)		7E-05 (J)		
10/8/2019		<0.001						<0.001	
10/9/2019			5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)		
10/10/2019					<0.001	<0.001			
2/12/2020									<0.001
3/17/2020		<0.001	<0.001		0.00015 (J)			<0.001	
3/18/2020				<0.001		<0.001	7.9E-05 (J)		<0.001
8/26/2020		<0.001							
8/27/2020			6.7E-05 (J)				4.9E-05 (J)	<0.001	
8/28/2020				8.4E-05 (J)	5.4E-05 (J)	<0.001			
9/22/2020		0.0001 (J)	<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)			
9/23/2020							0.00019 (J)	<0.001	
9/25/2020									<0.001
2/10/2021									4.8E-05 (J)
3/1/2021			<0.001	7E-05 (J)		<0.001			
3/2/2021		<0.001			9.6E-05 (J)		5.4E-05 (J)		<0.001
3/3/2021								<0.001	
8/18/2021			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
8/19/2021									<0.001
8/20/2021		<0.001							

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.00056 (J)	<0.001				
6/2/2016									<0.001
6/6/2016		<0.001	<0.001						
6/7/2016	<0.001					<0.001	<0.001		
7/25/2016					<0.001				<0.001
7/26/2016				<0.001					
7/27/2016	<0.001	<0.001	<0.001			<0.001			
7/28/2016							<0.001		
9/13/2016				0.0001 (J)	<0.001				
9/14/2016								<0.001	
9/16/2016	<0.001		<0.001						
9/19/2016		<0.001				<0.001	<0.001		<0.001
11/1/2016				<0.001					<0.001
11/2/2016						0.0013 (J)			
11/3/2016	<0.001	<0.001	<0.001				<0.001		
11/4/2016					<0.001			<0.001	
12/15/2016								<0.001	
1/11/2017	<0.001	<0.001	<0.001	<0.001					
1/13/2017						<0.001	<0.001		
1/16/2017					<0.001			<0.001	<0.001
2/21/2017									<0.001
3/1/2017		<0.001	<0.001						
3/2/2017	8E-05 (J)			0.0001 (J)	<0.001				
3/3/2017								<0.001	
3/6/2017						<0.001	<0.001		
4/26/2017		<0.001	<0.001			<0.001	<0.001		<0.001
4/27/2017				<0.001	<0.001				
4/28/2017								<0.001	
5/2/2017	<0.001								
5/26/2017								<0.001	
6/27/2017				<0.001	<0.001				
6/28/2017		<0.001	0.0001 (J)					<0.001	
6/29/2017	8E-05 (J)					<0.001	<0.001		
6/30/2017									<0.001
3/27/2018					<0.001				<0.001
3/28/2018	<0.001	<0.001	<0.001					<0.001	
3/29/2018				<0.001		<0.001	<0.001		
2/26/2019									<0.001
2/27/2019				<0.001	<0.001			<0.001	
3/5/2019	<0.001		<0.001			<0.001	<0.001		
3/6/2019		<0.001							
4/2/2019	<0.001						<0.001		
4/3/2019		<0.001	<0.001			<0.001			
9/24/2019							<0.001		
9/25/2019	<0.001					<0.001			
9/26/2019		<0.001	<0.001						
2/10/2020				4.9E-05 (J)	<0.001				
2/11/2020	<0.001	<0.001	<0.001					<0.001	
2/12/2020						<0.001	<0.001		<0.001
3/18/2020					<0.001				
3/19/2020				0.00012 (J)				<0.001	<0.001
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)			0.00011 (J)	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)			0.0011 (J)	
9/24/2020						9.2E-05 (J)	4.6E-05 (J)		<0.001
2/9/2021		5E-05 (J)	9.4E-05 (J)			6.3E-05 (J)	<0.001		
2/10/2021								0.00015 (J)	
2/11/2021									4.6E-05 (J)
2/12/2021				4.4E-05 (J)	0.00038 (J)				
3/1/2021									<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001	4.5E-05 (J)		<0.001	
3/4/2021							<0.001		
8/19/2021				<0.001	<0.001				<0.001
8/26/2021			<0.001						
8/27/2021	<0.001	<0.001				<0.001		<0.001	
9/1/2021							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.001					
6/2/2016		0.00056 (J)				<0.001	<0.001	<0.001
7/25/2016			<0.001					
7/26/2016		0.0001 (J)				<0.001	<0.001	<0.001
8/30/2016					<0.001			
9/14/2016			<0.001			<0.001	<0.001	<0.001
9/15/2016		0.0002 (J)						
11/1/2016		<0.001	<0.001					
11/2/2016						<0.001	<0.001	
11/4/2016								<0.001
11/14/2016					<0.001			
1/11/2017		<0.001	<0.001					
1/12/2017							<0.001	<0.001
1/13/2017						<0.001		
2/24/2017					<0.001			
3/1/2017			<0.001					
3/2/2017		0.0002 (J)						
3/6/2017						<0.001		
3/7/2017							0.0001 (J)	7E-05 (J)
4/26/2017		<0.001	<0.001					
5/1/2017						<0.001	<0.001	
5/2/2017								<0.001
5/8/2017					<0.001			
6/27/2017							<0.001	<0.001
6/28/2017		<0.001	<0.001					
6/29/2017						<0.001		
7/11/2017					<0.001			
10/10/2017					<0.001			
10/11/2017	0.0001 (J)							
10/12/2017				9E-05 (J)				
11/20/2017	<0.001			<0.001				
1/10/2018				<0.001				
1/11/2018	0.0002 (J)							
2/19/2018				<0.001				
2/20/2018	<0.001							
3/28/2018		<0.001	<0.001					
3/29/2018						<0.001	<0.001	<0.001
4/2/2018					<0.001			
4/3/2018	<0.001			<0.001				
6/28/2018	<0.001			<0.001				
8/7/2018	<0.001			<0.001				
9/19/2018					<0.001			
9/24/2018	<0.001			<0.001				
2/27/2019		<0.001	<0.001					
3/4/2019						<0.001	<0.001	<0.001
4/3/2019						<0.001	<0.001	<0.001
8/20/2019					<0.001			
8/21/2019	<0.001			<0.001				
9/24/2019							<0.001	9E-05 (J)
9/25/2019						<0.001		
10/9/2019	<0.001			<0.001				
2/11/2020			<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/12/2020	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
3/19/2020		0.00017 (J)	<0.001					
3/24/2020				<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020	5.1E-05 (J)					<0.001		
8/27/2020					<0.001			
9/22/2020					<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/23/2020		<0.001	0.00015 (J)					
9/24/2020	<0.001			3.8E-05 (J)				
2/8/2021							0.00013 (J)	3.7E-05 (J)
2/9/2021						<0.001		
2/10/2021	<0.001	<0.001	<0.001	<0.001				
3/1/2021					<0.001			
3/2/2021							5.1E-05 (J)	9.2E-05 (J)
3/3/2021		<0.001	<0.001			<0.001		
3/4/2021	<0.001			<0.001				
8/19/2021		<0.001			<0.001			
8/26/2021	<0.001					<0.001	<0.001	<0.001
8/27/2021			<0.001					
9/3/2021				<0.001				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.03	
6/7/2016									<0.03
7/26/2016								<0.03	
7/27/2016									<0.03
8/31/2016	<0.03	0.0024 (J)	<0.03	<0.03					
9/1/2016					<0.03	<0.03	<0.03		
9/15/2016								<0.03	
9/16/2016									<0.03
11/2/2016								<0.03	
11/3/2016									<0.03
11/28/2016	<0.03		<0.03						
11/29/2016		<0.03					<0.03		
11/30/2016				<0.03	<0.03				
12/1/2016						<0.03			
1/10/2017								<0.03	
1/11/2017									0.0035 (J)
2/22/2017	<0.03		0.0036 (J)						
2/23/2017		<0.03		<0.03			0.0028 (J)		
2/24/2017					<0.03	<0.03			
3/2/2017									<0.03
3/8/2017								<0.03	
4/26/2017								<0.03	
5/2/2017									<0.03
5/8/2017	0.0014 (J)								
5/9/2017		0.002 (J)		<0.03					
5/10/2017			0.0035 (J)		<0.03	<0.03	0.0054 (J)		
6/29/2017									<0.03
6/30/2017								<0.03	
7/17/2017	<0.03					<0.03			
7/18/2017		<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)		
10/16/2017	0.0016 (J)					<0.03			
10/17/2017		0.0016 (J)	0.0035 (J)		<0.03				
10/18/2017				<0.03			0.0026 (J)		
2/19/2018	<0.03						<0.03		
2/20/2018			<0.03		<0.03				
2/21/2018		0.0014 (J)		<0.03		<0.03			
3/27/2018								<0.03	
3/28/2018									<0.03
6/8/2018								<0.03	
6/11/2018									<0.03
8/6/2018	<0.03						<0.03		
8/7/2018		0.001 (J)		<0.03		<0.03			
8/8/2018			0.0031 (J)		<0.03				
9/25/2018									<0.03
10/1/2018								<0.03	
2/26/2019								<0.03	
3/5/2019									<0.03
3/29/2019								<0.03	
4/2/2019									<0.03
8/19/2019	0.0019 (J)				0.00094 (J)				
8/20/2019		0.0012 (J)	0.0043 (J)				0.002 (J)		
8/21/2019				<0.03		0.0015 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
9/25/2019								<0.03	<0.03
10/8/2019	0.0015 (J)						0.0021 (J)		
10/9/2019		0.0013 (J)	0.0047 (J)			0.0014 (J)			
10/10/2019				<0.03	0.0013 (J)				
2/11/2020									<0.03
2/12/2020								<0.03	
3/17/2020	0.0017 (J)	0.00094 (J)		0.0012 (J)			0.0018 (J)		
3/18/2020			0.0053 (J)		<0.03	0.0017 (J)		<0.03	
3/24/2020									0.0034 (J)
8/26/2020	0.0032 (J)								
8/27/2020		0.0017 (J)				0.0013 (J)	0.0083 (J)		
8/28/2020			0.0047 (J)	<0.03	0.0011 (J)				
9/22/2020	0.0029 (J)	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)				
9/23/2020						0.0012 (J)	0.0023 (J)		<0.03
9/25/2020								<0.03	
2/10/2021								<0.03	
3/1/2021		0.0015 (J)	0.0039 (J)		<0.03				
3/2/2021	0.0033 (J)			0.00088 (J)		0.0016 (J)		<0.03	
3/3/2021							0.0018 (J)		<0.03
8/18/2021		0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)		
8/19/2021								<0.03	
8/20/2021	0.0028 (J)								
8/27/2021									<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.015	<0.03					
6/2/2016								<0.03	
6/6/2016	0.0088	0.015							
6/7/2016					<0.03	0.0055			
7/25/2016				0.002 (J)				<0.03	
7/26/2016			0.0135 (J)						
7/27/2016	0.0087 (J)	0.0049 (J)			<0.03				
7/28/2016						0.0045 (J)			
9/13/2016			0.0112 (J)	<0.03					
9/14/2016							0.004 (J)		
9/16/2016		0.0031 (J)							
9/19/2016	0.0043 (J)				<0.03	0.0054 (J)		<0.03	
11/1/2016			0.0163 (J)					<0.03	
11/2/2016					<0.03				
11/3/2016	<0.03	0.0021 (J)				<0.03			
11/4/2016				<0.03			<0.03		
12/15/2016							0.0026 (J)		
1/11/2017	0.0052 (J)	0.0025 (J)	0.0166 (J)						
1/13/2017					<0.03	0.0062 (J)			
1/16/2017				0.0023 (J)			0.0023 (J)	<0.03	
2/21/2017								<0.03	
3/1/2017	0.0053 (J)	0.0029 (J)							
3/2/2017			0.0159 (J)	0.0025 (J)					
3/3/2017							0.0013 (J)		
3/6/2017					<0.03	0.0059 (J)			
4/26/2017	0.0041 (J)	0.0019 (J)			<0.03	0.0054 (J)		<0.03	
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	0.0039 (J)	0.0016 (J)					0.0026 (J)		
6/29/2017					<0.03	0.0047 (J)			
6/30/2017								<0.03	
10/11/2017									0.0018 (J)
11/20/2017									0.0018 (J)
1/11/2018									0.0019 (J)
2/20/2018									<0.03
3/27/2018				0.0023 (J)				0.0011 (J)	
3/28/2018	0.0041 (J)	0.0024 (J)					0.0025 (J)		
3/29/2018			0.0078 (J)		<0.03	0.0062 (J)			
4/3/2018									0.0022 (J)
6/5/2018			0.0079 (J)			0.0061 (J)			
6/6/2018				0.0024 (J)	<0.03				
6/7/2018	0.0032 (J)						0.0017 (J)		
6/11/2018		0.0014 (J)						0.0012 (J)	
6/28/2018									0.0026 (J)
8/7/2018									0.0024 (J)
9/24/2018									0.0022 (J)
9/25/2018	0.0036 (J)	0.0016 (J)			<0.03	0.0062 (J)			
10/1/2018			0.0053 (J)	0.0023 (J)			<0.03		
10/2/2018								<0.03	
2/26/2019								0.0011 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/27/2019			0.0093 (J)	0.0023 (J)			0.0011 (J)		
3/5/2019		0.0031 (J)			<0.03	0.0053 (J)			
3/6/2019	0.0033 (J)								
3/28/2019			0.013 (J)	0.0022 (J)					
3/29/2019							0.0016 (J)		
4/1/2019								0.001 (J)	
4/2/2019						0.0051 (J)			
4/3/2019	0.0035 (J)	0.0028 (J)			<0.03				
8/21/2019									0.0035 (J)
9/24/2019			0.0046 (J)	0.0023 (J)		0.0068 (J)	0.0011 (J)		
9/25/2019					<0.03			0.0011 (J)	
9/26/2019	0.0032 (J)	0.0029 (J)							
10/9/2019									0.0036 (J)
2/10/2020			0.011 (J)	0.0023 (J)					
2/11/2020	0.0033 (J)	0.005 (J)					0.0012 (J)		
2/12/2020					<0.03	0.0065 (J)		0.0013 (J)	0.0041 (J)
3/18/2020				0.0024 (J)					
3/19/2020			0.013 (J)				0.0022 (J)	0.0012 (J)	
3/24/2020	0.0033 (J)	0.0035 (J)			<0.03	0.0064 (J)			
3/25/2020									0.0049 (J)
9/23/2020	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)			0.0016 (J)		
9/24/2020					<0.03	0.0069 (J)		0.0011 (J)	0.0054 (J)
2/9/2021	0.0031 (J)	0.0019 (J)			<0.03	0.006 (J)			
2/10/2021							0.0039 (J)		0.0071 (J)
2/11/2021								0.0012 (J)	
2/12/2021			0.01 (J)	0.0025 (J)					
3/1/2021								0.0011 (J)	
3/3/2021	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03		0.0016 (J)		
3/4/2021						0.0062 (J)			0.0084 (J)
8/19/2021			0.013 (J)	0.0023 (J)				0.0012 (J)	
8/26/2021		0.0019 (J)							0.0082 (J)
8/27/2021	0.0032 (J)				<0.03		0.0058 (J)		
9/1/2021						0.0057 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.01					
6/2/2016	0.018				0.013	0.0049 (J)	<0.03
7/25/2016		0.0132 (J)					
7/26/2016	0.0221 (J)				0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016				0.0061 (J)			
9/14/2016		0.012 (J)			0.0137 (J)	0.0058 (J)	0.0029 (J)
9/15/2016	0.0197 (J)						
11/1/2016	0.0194 (J)	0.0115 (J)					
11/2/2016					0.0136 (J)	0.0053 (J)	
11/4/2016							<0.03
11/14/2016				0.0064 (J)			
1/11/2017	0.0177 (J)	0.0085 (J)					
1/12/2017						0.0054 (J)	0.0032 (J)
1/13/2017					0.0121 (J)		
2/24/2017				0.0049 (J)			
3/1/2017		0.0114 (J)					
3/2/2017	0.0185 (J)						
3/6/2017					0.0143 (J)		
3/7/2017						0.0056 (J)	0.0035 (J)
4/26/2017	0.0183 (J)	0.0092 (J)					
5/1/2017					0.0132 (J)	0.0031 (J)	
5/2/2017							0.0031 (J)
5/8/2017				0.0053 (J)			
6/27/2017						0.0018 (J)	0.0029 (J)
6/28/2017	0.0173 (J)	0.0085 (J)					
6/29/2017					0.0145 (J)		
7/11/2017				0.0051 (J)			
10/10/2017				0.0043 (J)			
10/12/2017			<0.03				
11/20/2017			<0.03				
1/10/2018			<0.03				
2/19/2018			<0.03				
3/28/2018	0.02 (J)	0.013 (J)					
3/29/2018					0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018				0.0045 (J)			
4/3/2018			<0.03				
6/6/2018						0.0068 (J)	
6/7/2018	0.02 (J)				0.013 (J)		0.0032 (J)
6/8/2018		0.012 (J)					
6/28/2018			<0.03				
8/7/2018			<0.03				
9/19/2018				0.0043 (J)			
9/24/2018			<0.03				
9/26/2018					0.014 (J)	0.0065 (J)	0.0032 (J)
10/1/2018	0.02 (J)	0.011 (J)					
2/27/2019	0.021 (J)	0.014 (J)					
3/4/2019					0.015 (J)	0.0065 (J)	0.0032 (J)
4/1/2019	0.021 (J)	0.013 (J)					
4/3/2019					0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019				0.0036 (J)			
8/21/2019			<0.03				
9/24/2019						0.0065 (J)	0.0031 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/25/2019	0.02 (J)	0.01 (J)			0.014 (J)		
10/8/2019				0.0036 (J)			
10/9/2019			<0.03				
2/11/2020		0.013 (J)					
2/12/2020	0.019 (J)		<0.03		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020				0.0046 (J)			
3/19/2020	0.023 (J)	0.014 (J)					
3/24/2020			<0.03			0.0064 (J)	0.0033 (J)
3/25/2020					0.014 (J)		
8/27/2020				0.0039 (J)			
9/22/2020				0.0036 (J)	0.013 (J)	0.0066 (J)	0.0034 (J)
9/23/2020	0.023 (J)	0.013 (J)					
9/24/2020			<0.03				
2/8/2021						0.0063 (J)	0.0032 (J)
2/9/2021					0.011 (J)		
2/10/2021	0.023 (J)	0.015 (J)	<0.03				
3/1/2021				0.0037 (J)			
3/2/2021						0.0018 (J)	0.0031 (J)
3/3/2021	0.024 (J)	0.017 (J)			0.012 (J)		
3/4/2021			<0.03				
8/19/2021	0.023 (J)			0.0038 (J)			
8/26/2021					0.0094 (J)	0.0075 (J)	0.0032 (J)
8/27/2021		0.026 (J)					
9/3/2021			<0.03				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
5/1/2007	<0.0002								
9/11/2007	<0.0002								
3/20/2008	<0.0002								
8/27/2008	<0.0002								
3/3/2009	<0.0002								
9/9/2009							<0.0002		
11/18/2009	<0.0002						<0.0002		
1/5/2010							<0.0002		
3/3/2010	<0.0002						<0.0002		
9/7/2010							<0.0002		
9/8/2010	<0.0002								
11/22/2010			<0.0002		<0.0002				
1/4/2011			<0.0002		<0.0002				
2/17/2011			<0.0002		<0.0002				
3/10/2011	<0.0002						<0.0002		
3/11/2011			<0.0002		<0.0002				
3/28/2011			<0.0002		<0.0002				
9/7/2011			<0.0002	<0.0002	<0.0002	<0.0002			
9/8/2011	<0.0002	<0.0002					<0.0002		
3/4/2012					<0.0002				
3/5/2012	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002		
3/6/2012			<0.0002						
9/5/2012		<0.0002		<0.0002		<0.0002	<0.0002		
9/10/2012	<0.0002				<0.0002				
9/11/2012			<0.0002						
2/5/2013		<0.0002				<0.0002	<0.0002		
2/6/2013	<0.0002		<0.0002	<0.0002	0.00014				
8/12/2013	<0.0002								
8/13/2013		<0.0002	<0.0002	<0.0002			<0.0002		
8/14/2013					<0.0002	<0.0002			
2/4/2014		<0.0002	<0.0002		<0.0002		<0.0002		
2/5/2014	<0.0002			<0.0002		<0.0002			
8/4/2014				<0.0002	<0.0002	<0.0002			
8/5/2014	<0.0002	<0.0002	<0.0002				<0.0002		
2/2/2015		<0.0002	<0.0002		<0.0002				
2/3/2015				<0.0002		<0.0002	<0.0002		
2/4/2015	<0.0002								
8/3/2015	<0.0002			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)			
8/4/2015		<0.0002 (D)	<0.0002				<0.0002		
2/16/2016	1.36E-05 (J)	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)		
2/17/2016			<0.0002						
6/2/2016								<0.0002	
6/7/2016									9.5E-05 (J)
7/26/2016								<0.0002	
7/27/2016									<0.0002
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002					
9/1/2016					<0.0002	<0.0002	<0.0002		
9/15/2016								<0.0002	
9/16/2016									<0.0002
11/2/2016								<0.0002	
11/3/2016									<0.0002
11/28/2016	<0.0002		<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
11/29/2016		<0.0002					<0.0002		
11/30/2016				<0.0002	<0.0002				
12/1/2016						<0.0002			
1/10/2017								<0.0002	
1/11/2017									<0.0002
2/22/2017	<0.0002		<0.0002						
2/23/2017		<0.0002		<0.0002			<0.0002		
2/24/2017					<0.0002	<0.0002			
3/2/2017									<0.0002
3/8/2017								<0.0002	
4/26/2017								<0.0002	
5/2/2017									<0.0002
5/8/2017	<0.0002								
5/9/2017		<0.0002		<0.0002					
5/10/2017			<0.0002		<0.0002	<0.0002	<0.0002		
6/29/2017									<0.0002
6/30/2017								<0.0002	
7/17/2017	<0.0002					<0.0002			
7/18/2017		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
10/16/2017	<0.0002					<0.0002			
10/17/2017		<0.0002	<0.0002		<0.0002				
10/18/2017				<0.0002			<0.0002		
2/19/2018	<0.0002						<0.0002		
2/20/2018			<0.0002		<0.0002				
2/21/2018		<0.0002		<0.0002		<0.0002			
3/27/2018								<0.0002	
3/28/2018									<0.0002
8/6/2018	<0.0002						<0.0002		
8/7/2018		<0.0002		<0.0002		<0.0002			
8/8/2018			<0.0002		<0.0002				
9/25/2018									<0.0002
2/25/2019	7.4E-05 (J)						6.7E-05 (J)		
2/26/2019		5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)		6.1E-05 (J)	
3/5/2019									<0.0002
3/29/2019								<0.0002	
6/12/2019	<0.0002		<0.0002		<0.0002				
6/13/2019		<0.0002		<0.0002		<0.0002	<0.0002		
8/19/2019	<0.0002				<0.0002				
8/20/2019		<0.0002	<0.0002				<0.0002		
8/21/2019				<0.0002		<0.0002			
9/25/2019								<0.0002	
10/8/2019	<0.0002						<0.0002		
10/9/2019		<0.0002	<0.0002			<0.0002			
10/10/2019				0.00043 (J)	<0.0002				
2/11/2020									<0.0002
2/12/2020								<0.0002	
5/6/2020	<0.0002	<0.0002					<0.0002		
5/7/2020			<0.0002	<0.0002	<0.0002	<0.0002			
8/26/2020	<0.0002								
8/27/2020		<0.0002				<0.0002	<0.0002		
8/28/2020			<0.0002	<0.0002	<0.0002				
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
9/23/2020						<0.0002	<0.0002		
2/10/2021								<0.0002	
3/1/2021		<0.0002	<0.0002		<0.0002				
3/2/2021	<0.0002			<0.0002		<0.0002			
3/3/2021							<0.0002		<0.0002
8/18/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/20/2021	<0.0002								
8/27/2021									<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.0002	<0.0002					
6/2/2016								<0.0002	
6/6/2016	<0.0002	<0.0002							
6/7/2016					9.6E-05 (J)	9.6E-05 (J)			
7/25/2016				<0.0002				<0.0002	
7/26/2016			<0.0002						
7/27/2016	<0.0002	<0.0002			<0.0002				
7/28/2016						<0.0002			
9/13/2016			<0.0002	<0.0002					
9/14/2016							<0.0002		
9/16/2016		<0.0002							
9/19/2016	<0.0002				<0.0002	<0.0002		<0.0002	
11/1/2016			<0.0002					<0.0002	
11/2/2016					<0.0002				
11/3/2016	<0.0002	<0.0002				<0.0002			
11/4/2016				<0.0002			<0.0002		
12/15/2016							<0.0002		
1/11/2017	<0.0002	<0.0002	<0.0002						
1/13/2017					<0.0002	<0.0002			
1/16/2017				<0.0002			<0.0002	<0.0002	
2/21/2017								<0.0002	
3/1/2017	<0.0002	<0.0002							
3/2/2017			<0.0002	<0.0002					
3/3/2017							<0.0002		
3/6/2017					<0.0002	<0.0002			
4/26/2017	<0.0002	<0.0002			<0.0002	<0.0002		<0.0002	
4/27/2017			<0.0002	<0.0002					
4/28/2017							<0.0002		
5/26/2017							<0.0002		
6/27/2017			<0.0002	<0.0002					
6/28/2017	<0.0002	<0.0002					<0.0002		
6/29/2017					<0.0002	<0.0002			
6/30/2017								<0.0002	
10/11/2017									<0.0002
11/20/2017									7E-05 (J)
1/11/2018									<0.0002
2/20/2018									<0.0002
3/27/2018				<0.0002				<0.0002	
3/28/2018	<0.0002	<0.0002					<0.0002		
3/29/2018			<0.0002		<0.0002	<0.0002			
4/3/2018									<0.0002
6/28/2018									<0.0002
8/7/2018									<0.0002
9/24/2018									<0.0002
9/25/2018	<0.0002	<0.0002			<0.0002	<0.0002			
2/26/2019								6.8E-05 (J)	
2/27/2019			5.1E-05 (J)	5.4E-05 (J)			<0.0002		
3/5/2019		<0.0002			<0.0002	<0.0002			
3/6/2019	<0.0002								
3/28/2019			4E-05 (J)	<0.0002					
3/29/2019							<0.0002		
4/1/2019								8.2E-05 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
8/21/2019									<0.0002
9/24/2019			<0.0002	<0.0002			<0.0002		
9/25/2019								<0.0002	
2/10/2020			<0.0002	<0.0002					
2/11/2020	<0.0002	<0.0002					<0.0002		
2/12/2020					<0.0002	<0.0002		<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002			<0.0002	<0.0002			
2/10/2021							<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021			<0.0002	<0.0002					
3/3/2021	<0.0002	<0.0002			<0.0002				
3/4/2021						<0.0002			<0.0002
8/26/2021		<0.0002							<0.0002
8/27/2021	<0.0002				<0.0002				
9/1/2021						<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.0002					
6/2/2016	<0.0002				<0.0002	<0.0002	<0.0002
7/25/2016		<0.0002					
7/26/2016	<0.0002				<0.0002	<0.0002	<0.0002
8/30/2016				<0.0002			
9/14/2016		<0.0002			<0.0002	<0.0002	<0.0002
9/15/2016	<0.0002						
11/1/2016	<0.0002	<0.0002					
11/2/2016					<0.0002	<0.0002	
11/4/2016							<0.0002
11/14/2016				<0.0002			
1/11/2017	<0.0002	<0.0002					
1/12/2017						<0.0002	<0.0002
1/13/2017					<0.0002		
2/24/2017				<0.0002			
3/1/2017		<0.0002					
3/2/2017	<0.0002						
3/6/2017					<0.0002		
3/7/2017						<0.0002	<0.0002
4/26/2017	<0.0002	<0.0002					
5/1/2017					<0.0002	<0.0002	
5/2/2017							<0.0002
5/8/2017				<0.0002			
6/27/2017						<0.0002	<0.0002
6/28/2017	<0.0002	<0.0002					
6/29/2017					<0.0002		
7/11/2017				<0.0002			
10/10/2017				<0.0002			
10/12/2017			<0.0002				
11/20/2017			8E-05 (J)				
1/10/2018			<0.0002				
2/19/2018			<0.0002				
3/28/2018	<0.0002	<0.0002					
3/29/2018					<0.0002	<0.0002	<0.0002
4/2/2018				<0.0002			
4/3/2018			<0.0002				
6/28/2018			3.6E-05 (J)				
8/7/2018			<0.0002				
9/19/2018				5.3E-05 (J)			
9/24/2018			<0.0002				
9/26/2018					<0.0002	<0.0002	<0.0002
2/27/2019	6.2E-05 (J)	6.1E-05 (J)					
3/4/2019					<0.0002	<0.0002	<0.0002
4/1/2019	9.6E-05 (J)	8.4E-05 (J)					
8/20/2019				<0.0002			
8/21/2019			<0.0002				
9/25/2019	<0.0002	<0.0002					
2/11/2020		<0.0002					
2/12/2020	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
8/27/2020				<0.0002			
2/8/2021						<0.0002	<0.0002
2/9/2021					<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/10/2021	<0.0002	<0.0002	<0.0002				
3/2/2021						<0.0002	<0.0002
3/3/2021					<0.0002		
3/4/2021			<0.0002				
8/19/2021				<0.0002			
8/26/2021					<0.0002	<0.0002	<0.0002
9/3/2021			0.00012 (J)				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.01	
6/7/2016									<0.01
7/26/2016								<0.01	
7/27/2016									<0.01
8/31/2016	<0.01	<0.01	<0.01	<0.01					
9/1/2016					<0.01	<0.01	<0.01		
9/15/2016								<0.01	
9/16/2016									<0.01
11/2/2016								<0.01	
11/3/2016									<0.01
11/28/2016	<0.01		<0.01						
11/29/2016		<0.01					<0.01		
11/30/2016				<0.01	<0.01				
12/1/2016						<0.01			
1/10/2017								<0.01	
1/11/2017									<0.01
2/22/2017	<0.01		<0.01						
2/23/2017		<0.01		<0.01			<0.01		
2/24/2017					<0.01	<0.01			
3/2/2017									<0.01
3/8/2017								<0.01	
4/26/2017								<0.01	
5/2/2017									<0.01
5/8/2017	<0.01								
5/9/2017		<0.01		<0.01					
5/10/2017			<0.01		<0.01	<0.01	<0.01		
6/29/2017									<0.01
6/30/2017								<0.01	
7/17/2017	<0.01					<0.01			
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01		
10/16/2017	<0.01					<0.01			
10/17/2017		<0.01	<0.01		<0.01				
10/18/2017				<0.01			<0.01		
2/19/2018	<0.01						<0.01		
2/20/2018			<0.01		<0.01				
2/21/2018		<0.01		<0.01		<0.01			
3/27/2018								<0.01	
3/28/2018									<0.01
6/8/2018								<0.01	
8/6/2018	<0.01						<0.01		
8/7/2018		<0.01		<0.01		<0.01			
8/8/2018			<0.01		<0.01				
10/1/2018								<0.01	
2/26/2019								<0.01	
3/5/2019									<0.01
3/29/2019								<0.01	
8/19/2019	<0.01				<0.01				
8/20/2019		<0.01	<0.01				<0.01		
8/21/2019				<0.01		<0.01			
9/25/2019								<0.01	
2/11/2020									<0.01
2/12/2020								<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
3/18/2020								<0.01	
3/24/2020									<0.01
8/26/2020	<0.01								
8/27/2020		<0.01				<0.01	<0.01		
8/28/2020			<0.01	<0.01	<0.01				
9/23/2020									<0.01
9/25/2020								<0.01	
2/10/2021								<0.01	
3/2/2021								<0.01	
3/3/2021									<0.01
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
8/19/2021								<0.01	
8/20/2021	<0.01								
8/27/2021									<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.014 (J)	0.012 (J)					
6/2/2016								<0.01	
6/6/2016	<0.01	<0.01							
6/7/2016					<0.01	<0.01			
7/25/2016				0.0098 (J)				<0.01	
7/26/2016			0.0132						
7/27/2016	<0.01	<0.01			<0.01				
7/28/2016						<0.01			
9/13/2016			0.0127	0.01 (J)					
9/14/2016							0.0039 (J)		
9/16/2016		<0.01							
9/19/2016	<0.01				<0.01	<0.01		<0.01	
11/1/2016			0.0092 (J)					<0.01	
11/2/2016					<0.01				
11/3/2016	<0.01	<0.01				<0.01			
11/4/2016				0.01			0.0077 (J)		
12/15/2016							0.0066 (J)		
1/11/2017	<0.01	<0.01	0.0093 (J)						
1/13/2017					<0.01	<0.01			
1/16/2017				0.0086 (J)			0.0056 (J)	<0.01	
2/21/2017								<0.01	
3/1/2017	<0.01	<0.01							
3/2/2017			0.0099 (J)	0.01					
3/3/2017							0.0049 (J)		
3/6/2017					<0.01	0.0007 (J)			
4/26/2017	<0.01	<0.01			<0.01	0.0008 (J)		<0.01	
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	<0.01	<0.01					0.0036 (J)		
6/29/2017					<0.01	<0.01			
6/30/2017								<0.01	
10/11/2017									0.0094 (J)
11/20/2017									0.0081 (J)
1/11/2018									0.0074 (J)
2/20/2018									<0.01
3/27/2018				0.0074 (J)				<0.01	
3/28/2018	<0.01	<0.01					0.0038 (J)		
3/29/2018			0.0076 (J)		<0.01	<0.01			
4/3/2018									0.006 (J)
6/5/2018			0.0092 (J)						
6/6/2018				0.0073 (J)					
6/7/2018							0.004 (J)		
6/11/2018								<0.01	
6/28/2018									0.005 (J)
8/7/2018									0.0045 (J)
9/24/2018									0.0035 (J)
10/1/2018			0.0085 (J)	0.0076 (J)			0.0042 (J)		
10/2/2018								<0.01	
2/26/2019								<0.01	
2/27/2019			0.0087 (J)	0.0078 (J)			0.0041 (J)		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/5/2019		<0.01			<0.01	<0.01			
3/6/2019	<0.01								
3/28/2019			0.0092 (J)	0.0082 (J)					
3/29/2019							0.0041 (J)		
4/1/2019								<0.01	
8/21/2019									0.0021 (J)
9/24/2019			0.0072 (J)	0.0074 (J)			0.0054 (J)		
9/25/2019								<0.01	
10/9/2019									0.0018 (J)
2/10/2020			0.0087 (J)	0.0062 (J)					
2/11/2020	<0.01	<0.01					0.0057 (J)		
2/12/2020					<0.01	<0.01		<0.01	0.0025 (J)
3/18/2020				0.0056 (J)					
3/19/2020			0.0088 (J)				0.0046 (J)	<0.01	
3/24/2020	<0.01	<0.01			<0.01	<0.01			
3/25/2020									0.002 (J)
9/23/2020	<0.01	<0.01	0.008 (J)	0.0059 (J)			0.0071 (J)		
9/24/2020					<0.01	<0.01		<0.01	0.0016 (J)
2/9/2021	<0.01	<0.01			<0.01	<0.01			
2/10/2021							0.0041 (J)		0.0013 (J)
2/11/2021								<0.01	
2/12/2021			0.008 (J)	0.0056 (J)					
3/1/2021								<0.01	
3/3/2021	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01		0.0074 (J)		
3/4/2021						<0.01			0.0014 (J)
8/19/2021			0.0083 (J)	0.005 (J)				<0.01	
8/26/2021		<0.01							0.0027 (J)
8/27/2021	<0.01				<0.01		0.0048 (J)		
9/1/2021						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.0055 (J)					
6/2/2016	0.0093 (J)				<0.01	0.0035 (J)	<0.01
7/25/2016		0.0037 (J)					
7/26/2016	0.0113				<0.01	0.0042 (J)	<0.01
8/30/2016				<0.01			
9/14/2016		0.0034 (J)			<0.01	0.0041 (J)	<0.01
9/15/2016	0.0112						
11/1/2016	0.0099 (J)	0.0025 (J)					
11/2/2016					<0.01	0.0039 (J)	
11/4/2016							<0.01
11/14/2016				<0.01			
1/11/2017	0.0093 (J)	0.0033 (J)					
1/12/2017						0.0041 (J)	<0.01
1/13/2017					<0.01		
2/24/2017				<0.01			
3/1/2017		0.0044 (J)					
3/2/2017	0.0103						
3/6/2017					<0.01		
3/7/2017						0.0047 (J)	<0.01
4/26/2017	0.01	0.0075 (J)					
5/1/2017					<0.01	0.0045 (J)	
5/2/2017							<0.01
5/8/2017				<0.01			
6/27/2017						0.004 (J)	<0.01
6/28/2017	0.0102	0.008 (J)					
6/29/2017					<0.01		
7/11/2017				<0.01			
10/10/2017				<0.01			
10/12/2017			<0.01				
11/20/2017			<0.01				
1/10/2018			<0.01				
2/19/2018			<0.01				
3/28/2018	0.011	0.0025 (J)					
3/29/2018					<0.01	<0.01	<0.01
4/2/2018				<0.01			
4/3/2018			<0.01				
6/7/2018	0.011						
6/8/2018		0.0041 (J)					
6/28/2018			<0.01				
8/7/2018			<0.01				
9/19/2018				<0.01			
9/24/2018			<0.01				
10/1/2018	0.012	0.0037 (J)					
2/27/2019	0.011	0.0027 (J)					
3/4/2019					<0.01	<0.01	<0.01
4/1/2019	0.012	0.0021 (J)					
8/20/2019				<0.01			
8/21/2019			<0.01				
9/25/2019	0.012	0.0087 (J)					
10/8/2019				<0.01			
10/9/2019			<0.01				
2/11/2020		0.003 (J)					

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Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/12/2020	0.013		<0.01		<0.01	0.0011 (J)	<0.01
3/17/2020				<0.01			
3/19/2020	0.013	0.0043 (J)					
3/24/2020			<0.01			0.0011 (J)	<0.01
3/25/2020					<0.01		
8/27/2020				<0.01			
9/22/2020				<0.01	<0.01	0.00099 (J)	<0.01
9/23/2020	0.012	0.01					
9/24/2020			<0.01				
2/8/2021						0.0011 (J)	<0.01
2/9/2021					<0.01		
2/10/2021	0.014	0.0038 (J)	<0.01				
3/1/2021				<0.01			
3/2/2021						<0.01	<0.01
3/3/2021	0.013	0.0036 (J)			<0.01		
3/4/2021			<0.01				
8/19/2021	0.013			<0.01			
8/26/2021					<0.01	0.001 (J)	<0.01
8/27/2021		0.0099 (J)					
9/3/2021			<0.01				

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Constituent: Nickel (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	<0.005							
9/20/1999	<0.005							
9/12/2001	<0.005							
9/3/2002	<0.005							
7/29/2003	0.0061							
12/5/2003	<0.005							
9/22/2004	<0.005							
5/1/2007		0.0061						
9/11/2007		0.021						
3/20/2008		<0.005						
8/27/2008		<0.005						
3/3/2009		0.005						
9/9/2009								<0.005
11/18/2009		0.0052						<0.005
1/5/2010								<0.005
3/3/2010		0.011						<0.005
9/7/2010								<0.005
9/8/2010		0.012						
11/22/2010				0.0096		<0.005		
1/4/2011				0.0084		<0.005		
2/17/2011				0.0088		<0.005		
3/10/2011		0.0032						<0.005
3/11/2011				0.0058		<0.005		
3/28/2011				0.0058		<0.005		
9/7/2011				0.005	0.0054	<0.005	<0.005	
9/8/2011		0.0046	0.009					<0.005
3/4/2012						<0.005		
3/5/2012		0.0053	0.0035		<0.005		<0.005	<0.005
3/6/2012				<0.005				
9/5/2012			0.0027		<0.005		<0.005	<0.005
9/10/2012		0.0074				<0.005		
9/11/2012				<0.005				
2/5/2013			0.0026				<0.005	<0.005
2/6/2013		0.0077		<0.005	<0.005	<0.005		
8/12/2013		0.016						
8/13/2013			<0.005	0.003	0.0032			<0.005
8/14/2013						<0.005	0.0032	
2/4/2014			<0.005	0.0026		0.0033		<0.005
2/5/2014		0.019			0.0039		0.0032	
8/4/2014					0.0024 (J)	0.0015 (J)	0.0059	
8/5/2014		0.0057	0.0013 (J)	0.0015 (J)				<0.005
2/2/2015			0.0023 (J)	<0.005		<0.005		
2/3/2015					<0.005		0.0013 (J)	<0.005
2/4/2015		0.0055						
8/3/2015		0.0055			<0.005 (D)	<0.005 (D)	0.0039 (D)	
8/4/2015			<0.005 (D)	<0.005				<0.005
2/16/2016		0.0039	<0.005		<0.005	<0.005	0.0036	<0.005
2/17/2016				<0.005				
2/22/2017		0.0051 (J)		0.0009 (J)				
2/23/2017			0.0026 (J)		<0.005			0.0015 (J)
2/24/2017						0.0021 (J)	0.0019 (J)	
2/19/2018		<0.005						<0.005

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Constituent: Nickel (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/20/2018				<0.005		<0.005		
2/21/2018			0.001 (J)		<0.005		0.0013 (J)	
8/6/2018		0.003 (J)						0.0026 (J)
8/7/2018			<0.005		<0.005		0.0019 (J)	
8/8/2018				<0.005		0.0012 (J)		
2/25/2019		0.0026 (J)						0.0023 (J)
2/26/2019			<0.005	0.0068 (J)	<0.005	<0.005	0.0023 (J)	
6/12/2019		0.0038 (J)		0.00043 (J)		0.00082 (J)		
6/13/2019			0.00072 (J)		<0.005		0.0019 (J)	0.0037 (J)
10/8/2019		0.0051 (J)						0.0021 (J)
10/9/2019			0.0015 (J)	0.00058 (J)			0.0019 (J)	
10/10/2019					<0.005	0.00084 (J)		
3/17/2020		0.0066	0.00087 (J)		0.00056 (J)			0.0011 (J)
3/18/2020				0.00063 (J)		0.0026 (J)	0.002 (J)	
9/22/2020		0.027	0.0021 (J)	<0.005	<0.005	0.00077 (J)		
9/23/2020							0.0012 (J)	0.0016 (J)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)		
3/2/2021		0.034			<0.005		0.0014 (J)	
3/3/2021								0.0016 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)	0.0012 (J)
8/20/2021		0.014						

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Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47						5.82		
1/5/2010							5.8		
3/3/2010	6.53						6.15		
3/10/2011	5.83						6.05		
3/11/2011			5.52		6.16				
9/7/2011			4.35	4.31	5.07	5.64			
9/8/2011	5.69	4.49					5.31		
3/5/2012	6.27						6.23		
3/6/2012			6.37						
9/5/2012							5.83		
9/10/2012	6.23								
9/11/2012			5.69						
2/5/2013							6.79		
2/6/2013	7.56		6.8						
8/12/2013	6.68								
8/13/2013			5.51				6.48		
2/4/2014			5.74				6.14		
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64						5.2		
2/17/2016			5.59						
6/2/2016								5.46	
6/7/2016									5.62
7/26/2016								5.45	
7/27/2016									5.59
9/15/2016								5.45	
9/16/2016									5.58
11/2/2016								5.41	
11/3/2016									5.59
11/28/2016	6.23		5.47						
11/29/2016		5.37					5.92		
11/30/2016				5.13	5.61				
12/1/2016						5.24			
1/10/2017								5.37	
1/11/2017									5.59
2/22/2017	6.21		5.48						
2/23/2017		5.5		5.28			5.97		
2/24/2017					5.47	5.37			
3/2/2017									5.54
3/8/2017								5.41	
4/26/2017								5.02	
5/2/2017									5.47
5/8/2017	6.12								
5/9/2017		5.41		5.12					
5/10/2017			5.6		5.68	5.2	5.82		
6/29/2017									5.56
6/30/2017								5.39	
7/17/2017	6.03					5.21			
7/18/2017		5.5	5.49	5.21	5.59		5.76		
10/4/2017									5.57

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Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/5/2017								5.49	
10/16/2017	6.12					5.16			
10/17/2017		5.42	5.45		5.52				
10/18/2017				5.17			5.76		
2/19/2018	6.13						5.86		
2/20/2018			5.52		5.51				
2/21/2018		5.39		5.15		5.18			
3/27/2018								5.47	
3/28/2018									5.59
6/8/2018								5.45	
6/11/2018									5.58
8/6/2018	6.01						5.84		
8/7/2018		5.14		4.95		5.06			
8/8/2018			5.15		5.33				
9/25/2018									5.59
10/1/2018								5.39	
2/25/2019	6.51						5.91		
2/26/2019		5.52	5.4	5.22	5.42	5.08		5.46	
3/5/2019									5.48
3/29/2019								5.34	
4/2/2019									5.74
6/12/2019	6.3		5.38		5.54				
6/13/2019		5.55		5.08		5.01	5.84		
8/19/2019	6.23				5.56				
8/20/2019		5.33	5.33				5.85		
8/21/2019				5.32		4.88			
9/25/2019								5.19	5.49
10/8/2019	6.28						5.91		
10/9/2019		5.37	5.39			4.89			
10/10/2019				5.4	5.55				
1/21/2020						4.99			
2/11/2020									5.58
2/12/2020								5.48	
3/17/2020	6.14	5.7		5.03			5.97		
3/18/2020			5.38		5.58	4.88		5.38	
3/24/2020									5.57
5/6/2020	6.24	6.8					5.99		
5/7/2020			5.43	5.05	5.52	5.2			
8/26/2020	5.67								
8/27/2020		5.39				5.17	5.77		
8/28/2020			5.45	5.2	5.38				
9/22/2020	5.78	5.25	5.34	5.11	5.43				
9/23/2020						5.04	5.81		5.58
9/25/2020								5.44	
2/10/2021								5.35	
3/1/2021		5.25	5.17		5.62				
3/2/2021	5.42 (D)			4.82		4.63		5.49	
3/3/2021							5.78		5.52
8/18/2021		5.08	4.96	4.73	5.46	4.76	5.82		
8/19/2021								7.32	
8/20/2021	5.86								
8/27/2021									5.27

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			7.46	6.33					
6/2/2016								5.75	
6/6/2016	6.17	5.71							
6/7/2016					5.77	6.1			
7/25/2016				6.21				5.82	
7/26/2016			7.43						
7/27/2016	6.14	5.46			5.79				
7/28/2016						6.12			
9/13/2016			7.44	6.16			7.41		
9/19/2016	6.04	5.59			5.73	6.12		5.78 (D)	
11/1/2016			7.24					5.62	
11/2/2016					5.67				
11/3/2016	5.97	5.39				6.07			
11/4/2016				6.29			7.12		
12/15/2016							7.24		
1/11/2017	6.05	5.48	7.3						
1/13/2017					5.79	6.41			
1/16/2017				6.29			7.24	5.72	
2/21/2017								5.67	
3/1/2017	5.94	5.41							
3/2/2017			7.23	6.28					
3/3/2017							7.22		
3/6/2017					5.63	6.34			
4/26/2017	5.99	5.4			5.66	6.32		5.56	
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	6	5.36					7.06		
6/29/2017					5.85	6.47			
6/30/2017								5.72	
10/3/2017			6.81	5.98		6.56	6.99		
10/4/2017		5.32			5.83			5.87	
10/5/2017	6.11								
10/11/2017									6.4
11/20/2017									6.33
1/11/2018									6.29
2/20/2018									7.22
3/27/2018				6.25				5.83	
3/28/2018	6.1	5.34					7.3		
3/29/2018			7.38		5.93	6.75			
4/3/2018									6.87
6/5/2018			7.16			6.09			
6/6/2018				6.17	5.86				
6/7/2018	5.98						7.29		
6/11/2018		5.28						5.69	
6/28/2018									6.18
8/7/2018									6.08
9/24/2018									5.81
9/25/2018	5.81	4.86			5.84	6.67			
10/1/2018			6.8	5.9			7.07		
10/2/2018								5.39	

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/26/2019								5.77	
2/27/2019			6.84	5.8			7.27		
3/5/2019		5.26			6.07	7.22			
3/6/2019	5.99								
3/27/2019									5.84
3/28/2019			6.99	6.15					
3/29/2019							7.06		
4/1/2019								5.62	
4/2/2019						6.94			
4/3/2019	6.29	5.47			5.71				
8/21/2019									5.96
9/24/2019			7.07	6.23		6.87	7.01		
9/25/2019					5.86			5.69	
9/26/2019	6.04	5.2							
10/9/2019									5.81
2/10/2020			7.2	6.1					
2/11/2020	6.07	5.3					7.38		
2/12/2020					6	7.13		5.8	5.97
3/18/2020				6.19					
3/19/2020			7.03				7.22	6	
3/24/2020	5.98	5.33			5.86	6.35			
3/25/2020									5.78
9/23/2020	6.01	5.29	7.15	6.01			7.22		
9/24/2020					5.8	6.7		5.67	5.7
2/9/2021	6.12	5.43			5.86	6.95			
2/10/2021							7.29		5.8
2/11/2021								5.73	
2/12/2021			7.14	6.21					
3/1/2021								5.78	
3/3/2021	5.89	5.31	7.2	5.38	5.89		7.92		
3/4/2021						6.8			5.54
8/19/2021			6.32	6.38					
8/26/2021		4.4							6.91
8/27/2021	5.4				5.57		7.14		
9/1/2021						6.65			

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		7.72					
6/2/2016	7.84				6.36	7.67	5.75
7/25/2016		7.74					
7/26/2016	7.88				6.22	7.66	5.72
8/30/2016				5.75			
9/14/2016		7.65			6.23	7.6	5.74
9/15/2016	7.74						
11/1/2016	7.75	7.7					
11/2/2016					6.08	7.35	
11/4/2016							5.61
11/14/2016				5.59			
1/11/2017	7.66	7.53					
1/12/2017						7.49	5.71
1/13/2017					6.19		
2/24/2017				5.49			
3/1/2017		7.42					
3/2/2017	7.68						
3/6/2017					6.2		
3/7/2017						7.43	5.66
4/26/2017	7.45	7.4					
5/1/2017					6.21	7.22	
5/2/2017							5.65
5/8/2017				5.58			
6/27/2017						7.32	5.7
6/28/2017	7.65	7.5					
6/29/2017					6.21		
7/11/2017				5.58			
10/3/2017						7.48	5.79
10/4/2017	7.49	7.45					
10/5/2017					6.16		
10/10/2017				5.49			
10/12/2017			5.43				
11/20/2017			5.1				
1/10/2018			4.97				
2/19/2018			5.6				
3/28/2018	7.91	7.74					
3/29/2018					6.09	7.02	5.63
4/2/2018				6.3 (O)			
4/3/2018			5.84				
6/6/2018						7.43	
6/7/2018	7.69				6.12		5.63
6/8/2018		7.64					
6/28/2018			5.24				
8/7/2018			5.18				
9/19/2018				5.48			
9/24/2018			5.14				
9/26/2018					5.84	7.13	5.63
10/1/2018	7.39	7.47					
2/27/2019	7.55	7.54					
3/4/2019					6.18	7.46	5.75
3/26/2019			5.3				
3/27/2019				5.83			

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019	7.87	7.74					
4/3/2019					6.43	7.11	5.63
8/20/2019				5.58			
8/21/2019			5.26				
9/24/2019						6.93	5.6
9/25/2019	7.64	7.47			6.2		
10/8/2019				5.59			
10/9/2019			5.22				
2/11/2020		7.09					
2/12/2020	7.83		5.3		6.15	7.52	5.83
3/17/2020				5.57			
3/19/2020	7.65	7.31					
3/24/2020			5.29			7.34	5.81
3/25/2020					6.26		
8/27/2020				4.88			
9/22/2020				5.46	5.8	7.19	5.99
9/23/2020	7.57	7.37					
9/24/2020			5.43				
2/8/2021							5.67
2/9/2021					6.06		
2/10/2021	7.81	7.58	5.19				
3/1/2021				5.48			
3/2/2021						7.15	5.63
3/3/2021	8.39	8.23			6.21		
3/4/2021			5.23				
8/19/2021	5.34			5.5			
8/26/2021					5.82	7.16	5.51
8/27/2021		7.39					
9/3/2021			4.75				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	<0.005								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	0.015								
12/5/2003	<0.005								
9/22/2004	<0.005								
5/1/2007		<0.005							
9/11/2007		<0.005							
3/20/2008		<0.005							
8/27/2008		<0.005							
3/3/2009		<0.005							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		<0.005			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005						<0.005	
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011		<0.005	<0.005					<0.005	
3/4/2012						<0.005			
3/5/2012		<0.005	<0.005		<0.005		0.014	<0.005	
3/6/2012				<0.005					
9/5/2012			<0.005		<0.005		0.012	<0.005	
9/10/2012		<0.005				0.011			
9/11/2012				<0.005					
2/5/2013			<0.005				0.011	<0.005	
2/6/2013		<0.005		<0.005	<0.005	0.011			
8/12/2013		<0.005							
8/13/2013			<0.005	<0.005	0.0057			<0.005	
8/14/2013						0.013	0.025		
2/4/2014			<0.005	<0.005		0.017		<0.005	
2/5/2014		<0.005			<0.005		0.02		
8/4/2014					<0.005	0.0085	0.032		
8/5/2014		<0.005	<0.005	<0.005				<0.005	
2/2/2015			<0.005	<0.005		0.0089			
2/3/2015					<0.005		0.011	<0.005	
2/4/2015		<0.005							
8/3/2015		<0.005			<0.005 (D)	0.0067 (D)	0.046 (D)		
8/4/2015			<0.005 (D)	<0.005				<0.005	
2/16/2016		<0.005	<0.005		<0.005	0.0047 (J)	0.022	<0.005	
2/17/2016				<0.005					
6/2/2016									0.0011 (J)
7/26/2016									0.0016 (J)
8/31/2016		<0.005	0.0039 (J)	0.0029 (J)	0.0038 (J)				
9/1/2016						0.0132	0.0212	0.002 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									0.0014 (J)
11/2/2016									<0.005
11/28/2016		<0.005		0.0019 (J)					
11/29/2016			0.0033 (J)					0.0017 (J)	
11/30/2016					0.0054 (J)	0.0046 (J)			
12/1/2016							0.0234		
1/10/2017									0.0012 (J)
2/22/2017		<0.005		0.0015 (J)					
2/23/2017			0.0097 (J)		0.002 (J)			0.0018 (J)	
2/24/2017						0.0108	0.0154		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		<0.005							
5/9/2017			0.0066 (J)		<0.005				
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)	
6/30/2017									<0.005
7/17/2017		<0.005					0.0136		
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)	
10/16/2017		<0.005					0.0242		
10/17/2017			0.003 (J)	0.0028 (J)		0.004 (J)			
10/18/2017					0.0047 (J)			0.0037 (J)	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		0.0127		
3/27/2018									<0.005
8/6/2018		<0.005						0.0047 (J)	
8/7/2018			<0.005		0.0016 (J)		0.021		
8/8/2018				0.0025 (J)		0.0041 (J)			
2/25/2019		<0.005						0.0051 (J)	
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024		<0.005
3/29/2019									0.0019 (J)
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)			
6/13/2019			<0.005		0.0089 (J)		0.027	0.0048 (J)	
8/19/2019		<0.005				0.003 (J)			
8/20/2019			0.0022 (J)	0.0032 (J)				0.0039 (J)	
8/21/2019					0.004 (J)		0.037		
9/25/2019									<0.005
10/8/2019		<0.005						0.0031 (J)	
10/9/2019			0.0023 (J)	0.0026 (J)			0.034		
10/10/2019					0.0021 (J)	0.0024 (J)			
2/12/2020									<0.005
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)			0.0026 (J)	
3/18/2020				0.0032 (J)		0.0046 (J)	0.028		<0.005
8/26/2020		<0.005							
8/27/2020			0.011				0.021	0.0027 (J)	
8/28/2020				0.0037 (J)	0.0045 (J)	0.0031 (J)			
9/22/2020		<0.005	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)			
9/23/2020							0.026	0.0031 (J)	
9/25/2020									<0.005
2/10/2021									<0.005
3/1/2021			0.011	0.0043 (J)		0.0041 (J)			
3/2/2021		<0.005			0.012		0.019		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								0.002 (J)	
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.005	<0.005				
6/2/2016									<0.005
6/6/2016		<0.005	<0.005						
6/7/2016	0.001 (J)					<0.005	0.00048 (J)		
7/25/2016					<0.005				<0.005
7/26/2016				<0.005					
7/27/2016	0.0012 (J)	<0.005	<0.005			<0.005			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	0.0015 (J)		<0.005						
9/19/2016		<0.005				<0.005	0.0014 (J)		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	0.0015 (J)	<0.005	<0.005				<0.005		
11/4/2016					<0.005			<0.005	
12/15/2016								<0.005	
1/11/2017	0.0014 (J)	<0.005	<0.005	<0.005					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			<0.005	<0.005
2/21/2017									<0.005
3/1/2017		<0.005	<0.005						
3/2/2017	0.0017 (J)			<0.005	<0.005				
3/3/2017								<0.005	
3/6/2017						<0.005	<0.005		
4/26/2017		<0.005	<0.005			<0.005	<0.005		<0.005
4/27/2017				<0.005	<0.005				
4/28/2017								<0.005	
5/2/2017	<0.005								
5/26/2017								<0.005	
6/27/2017				<0.005	<0.005				
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017	<0.005					<0.005	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
6/5/2018							<0.005		
6/6/2018						<0.005			
6/7/2018		<0.005							
6/11/2018	<0.005		<0.005						
9/25/2018	<0.005	<0.005	<0.005			<0.005	<0.005		
2/26/2019									<0.005
2/27/2019				<0.005	<0.005			<0.005	
3/5/2019	<0.005		<0.005			<0.005	<0.005		
3/6/2019		<0.005							
3/28/2019				<0.005	<0.005				
3/29/2019								<0.005	
4/1/2019									<0.005
4/2/2019	<0.005						<0.005		
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/25/2019	<0.005					<0.005			<0.005
9/26/2019		<0.005	<0.005						
2/10/2020				<0.005	<0.005				
2/11/2020	<0.005	<0.005	<0.005					<0.005	
2/12/2020						<0.005	<0.005		<0.005
3/18/2020					<0.005				
3/19/2020				<0.005				<0.005	<0.005
3/24/2020	<0.005	<0.005	<0.005			<0.005	<0.005		
9/23/2020	<0.005	<0.005	<0.005	<0.005	<0.005			<0.005	
9/24/2020						<0.005	<0.005		<0.005
2/9/2021		<0.005	<0.005			<0.005	<0.005		
2/10/2021								<0.005	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
3/4/2021							<0.005		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				<0.005	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				0.0009 (J)	<0.005	0.0009 (J)
8/30/2016					0.0017 (J)			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					<0.005			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					0.0011 (J)			
3/1/2017			<0.005					
3/2/2017		<0.005						
3/6/2017						<0.005		
3/7/2017							<0.005	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	<0.005	
5/2/2017								<0.005
5/8/2017					<0.005			
6/27/2017							<0.005	<0.005
6/28/2017		<0.005	<0.005					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					<0.005			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			0.0042 (J)				
1/10/2018				0.0043 (J)				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							<0.005	
6/7/2018						<0.005		<0.005
6/28/2018	<0.005			0.0032 (J)				
8/7/2018	<0.005			0.0031 (J)				
9/19/2018					<0.005			
9/24/2018	0.0015 (J)			0.0026 (J)				
9/26/2018						<0.005	<0.005	<0.005
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						<0.005	<0.005	<0.005
8/20/2019					<0.005			
8/21/2019	<0.005			0.0024 (J)				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/24/2019							<0.005	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/9/2019	<0.005			0.0026 (J)				
2/11/2020			<0.005					
2/12/2020	<0.005	<0.005		0.002 (J)		<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005					
3/24/2020				0.002 (J)			<0.005	<0.005
3/25/2020	<0.005					<0.005		
8/27/2020					<0.005			
9/22/2020						<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			0.0016 (J)				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	<0.005	<0.005	<0.005				
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			0.0019 (J)		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.005						
9/11/2007	<0.005						
3/20/2008	<0.005						
8/27/2008	<0.005						
3/3/2009	<0.005						
9/9/2009							<0.005
11/18/2009	<0.005						<0.005
1/5/2010							<0.005
3/3/2010	<0.005						<0.005
9/7/2010							<0.005
9/8/2010	<0.005						
11/22/2010			<0.005		<0.005		
1/4/2011			<0.005		<0.005		
2/17/2011			<0.005		<0.005		
3/10/2011	<0.005						<0.005
3/11/2011			<0.005		<0.005		
3/28/2011			<0.005		<0.005		
9/7/2011			<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005	<0.005					<0.005
3/4/2012					<0.005		
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012			<0.005				
9/5/2012		<0.005		<0.005		<0.005	<0.005
9/10/2012	<0.005				<0.005		
9/11/2012			<0.005				
2/5/2013		<0.005				<0.005	<0.005
2/6/2013	<0.005		<0.005	<0.005	<0.005		
8/12/2013	<0.005						
8/13/2013		<0.005	<0.005	<0.005			<0.005
8/14/2013					<0.005	<0.005	
2/4/2014		<0.005	<0.005		<0.005		<0.005
2/5/2014	<0.005			<0.005		<0.005	
8/4/2014				<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005	<0.005				<0.005
2/2/2015		<0.005	<0.005		<0.005		
2/3/2015				<0.005		<0.005	<0.005
2/4/2015	<0.005						
8/3/2015	<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015		<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016			<0.005				
2/22/2017	<0.005		<0.005				
2/23/2017		<0.005		<0.005			<0.005
2/24/2017					<0.005	<0.005	
2/19/2018	<0.005						<0.005
2/20/2018			<0.005		<0.005		
2/21/2018		<0.005		<0.005		<0.005	
8/6/2018	<0.005						<0.005
8/7/2018		<0.005		<0.005		<0.005	
8/8/2018			<0.005		<0.005		
2/25/2019	<0.005						<0.005
2/26/2019		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Silver (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
6/12/2019	<0.005		<0.005		<0.005		
6/13/2019		<0.005		<0.005		<0.005	<0.005
10/8/2019	<0.005						<0.005
10/9/2019		<0.005	<0.005			<0.005	
10/10/2019				<0.005	<0.005		
3/17/2020	<0.005	<0.005		<0.005			<0.005
3/18/2020			<0.005		<0.005	<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
9/23/2020						<0.005	<0.005
3/1/2021		<0.005	<0.005		<0.005		
3/2/2021	<0.005			<0.005		<0.005	
3/3/2021							<0.005
8/18/2021		<0.005	<0.005	<0.005	<0.005	0.00084 (J)	<0.005
8/20/2021	<0.005						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								6.6	
6/7/2016									4.4
7/26/2016								6.1	
7/27/2016									4.7
8/31/2016	29	410	140	87					
9/1/2016					150	990	360		
9/15/2016								6.1	
9/16/2016									4.8
11/2/2016								6.3	
11/3/2016									5.3
11/28/2016	36		120						
11/29/2016		450					320		
11/30/2016				76	50				
12/1/2016						1100			
1/10/2017								5.9	
1/11/2017									5.2
2/22/2017	43		100						
2/23/2017		390		47			380		
2/24/2017					110	850			
3/2/2017									5
3/8/2017								7	
4/26/2017								7	
5/2/2017									5
5/8/2017	60								
5/9/2017		280		41					
5/10/2017			80		70	1000	660		
6/29/2017									5.2
6/30/2017								6.5	
7/17/2017	63					830			
7/18/2017		200	57	44	50		880		
10/4/2017									5.3
10/5/2017								7.9	
10/16/2017	62					720			
10/17/2017		180	59		58				
10/18/2017				53			760		
2/19/2018	64.6						718		
2/20/2018			55.9		64.6				
2/21/2018		146		46.7		533			
6/8/2018								6.4	
6/11/2018									5.2
8/6/2018	42.1						797		
8/7/2018		100		38.8		784			
8/8/2018			81.1		79.5				
9/25/2018									6.1
10/1/2018								6.8	
2/25/2019	42.1						763		
2/26/2019		118	129	49.3	55.8	742			
3/29/2019								7.3	
4/2/2019									5.1
6/12/2019	83.4		180		92.8				
6/13/2019		163		77.1		976	918		
9/25/2019								6.6	5.5

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	128						664		
10/9/2019		318	91.2			1180			
10/10/2019				48	68.7				
3/17/2020	98.6	145		95.2			303		
3/18/2020			200		199	960		8.1	
3/24/2020									5.4
9/22/2020	145	478	216	55.1	72.1				
9/23/2020						992	518		5.1
9/25/2020								6.1	
3/1/2021		525	244		177				
3/2/2021	156			95.5		906		6	
3/3/2021							476		5.2
8/18/2021		675	223	114	118	946	345		
8/19/2021								6.7	
8/20/2021	121								
8/27/2021									5.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			5	4.2					
6/2/2016								1.3	
6/6/2016	1.2	1.8							
6/7/2016					<1	5.2			
7/25/2016				3.7				1.2	
7/26/2016			5.4						
7/27/2016	1.7	1.9			0.08 (J)				
7/28/2016						5.1			
9/13/2016			2.9	5.2					
9/14/2016							9.4		
9/16/2016		1.7							
9/19/2016	1.8				0.08 (J)	4.8		1.2	
11/1/2016			3.9					1.3	
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9				5			
11/4/2016				5			13		
12/15/2016							1.8		
1/11/2017	<1	1.7	3.7						
1/13/2017					<1	4.3			
1/16/2017				7.9			11	<1	
2/21/2017								1.4	
3/1/2017	1.8	<1							
3/2/2017			4.6	7.4					
3/3/2017							8.8		
3/6/2017					<1	4.5			
4/26/2017	1.6	1.9			<1	4.9		1.4	
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	<1	<1					11		
6/29/2017					<1	5.5			
6/30/2017								<1	
10/3/2017			6.6	5.9		5.8	7.9		
10/4/2017		1.7			<1			1.4	
10/5/2017	1.6								
10/11/2017									20
11/20/2017									24
1/11/2018									23
2/20/2018									20.6
4/3/2018									24.5
6/5/2018			6.4			6.1			
6/6/2018				4.4	0.049 (J)				
6/7/2018	0.68 (J)						8.8		
6/11/2018		0.95 (J)						1.1	
6/28/2018									22
8/7/2018									20.7
9/24/2018									21.2
9/25/2018	1	1.5			0.13 (J)	7			
10/1/2018			5.6	4			9.1		
10/2/2018								1	
3/27/2019									17.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			8	4.3					
3/29/2019							9		
4/1/2019								0.96 (J)	
4/2/2019						3.8			
4/3/2019	0.82 (J)	1.3			0.12 (J)				
9/24/2019			5.3	4.3		1	9.1		
9/25/2019					<1			0.81 (J)	
9/26/2019	0.64 (J)	1							
10/9/2019									15
3/18/2020				5.3					
3/19/2020			10				12.4	1.6	
3/24/2020	<1	0.99 (J)			<1	3			
3/25/2020									14.3
9/23/2020	0.53 (J)	1.1	8.1	3.4			11.8		
9/24/2020					<1	3.6		0.69 (J)	11.7
3/1/2021								0.88 (J)	
3/3/2021	<1	1	9	4.4	<1		10.6		
3/4/2021						4.5			12
8/19/2021			8.9	4.9				1	
8/26/2021		1.2							19.2
8/27/2021	0.59 (J)				<1		16.7		
9/1/2021						5			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		12					
6/2/2016	5.8				8	20	1.9
7/25/2016		8.4					
7/26/2016	6.7				7.7	20	1.8
8/30/2016				160			
9/14/2016		8.6			7.5	19	1.8
9/15/2016	6						
11/1/2016	4.9	8.9					
11/2/2016					8.2	20	
11/4/2016							2
11/14/2016				150			
1/11/2017	4.5	8.6					
1/12/2017						19	1.9
1/13/2017					8.1		
2/24/2017				120			
3/1/2017		9.3					
3/2/2017	4.4						
3/6/2017					8		
3/7/2017						20	2.1
4/26/2017	5.1	11					
5/1/2017					8.4	20	
5/2/2017							2
5/8/2017				120			
6/27/2017						18	2.1
6/28/2017	5.4	12					
6/29/2017					9.2		
7/11/2017				110			
10/3/2017						16	2.3
10/4/2017	6.2	12					
10/5/2017					9.6		
10/10/2017				93			
10/12/2017			17				
11/20/2017			71				
1/10/2018			66				
2/19/2018			57.2				
4/2/2018				88.8			
4/3/2018			49.4				
6/6/2018						8.3	
6/7/2018	6.7				8.5		2
6/8/2018		9.6					
6/28/2018			43.8				
8/7/2018			40.5				
9/19/2018				75			
9/24/2018			39.7				
9/26/2018					10.2	7.9	2.3
10/1/2018	7.1	9.1					
3/26/2019			34.3				
3/27/2019				65.9			
4/1/2019	7.2	8.5					
4/3/2019					8.5	7	2.1
9/24/2019						5.5	2.4
9/25/2019	7	13.8			8.5		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				52.3			
10/9/2019			27.9				
3/17/2020				71.6			
3/19/2020	9	12.9					
3/24/2020			25.2			5.9	2.1
3/25/2020					8.8		
9/22/2020				51.5	8.2	5.5	2.1
9/23/2020	6.9	16.8					
9/24/2020			22.9				
3/1/2021				51.6			
3/2/2021						2.6	2.3
3/3/2021	7	9.6			7.8		
3/4/2021			21.5				
8/19/2021	7.5			52.6			
8/26/2021					8.5	6	2.4
8/27/2021		18.2					
9/3/2021			21.3				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								46	
6/7/2016									28
7/26/2016								54	
7/27/2016									74
8/31/2016	209	616	257	216					
9/1/2016					553	1400	578		
9/15/2016								54	
9/16/2016									67
11/2/2016								71	
11/3/2016									41
11/28/2016	102		177						
11/29/2016		594					455		
11/30/2016				177 (B)	247 (B)				
12/1/2016						1610 (B)			
1/10/2017								45	
1/11/2017									104
2/22/2017	164		240						
2/23/2017		581		105			614		
2/24/2017					414	1200			
3/2/2017									77
3/8/2017								178	
4/26/2017								52	
5/2/2017									142
5/8/2017	145								
5/9/2017		410		77					
5/10/2017			149		251	1360	955		
6/29/2017									53
6/30/2017								45	
7/17/2017	185					1340			
7/18/2017		322	122	89	179		1270		
10/4/2017									61
10/5/2017								40	
10/16/2017	218					1080			
10/17/2017		381	214		256				
10/18/2017				166			1150		
2/19/2018	173						1070		
2/20/2018			131		233				
2/21/2018		285		105		830			
6/8/2018								114	
6/11/2018									70
8/6/2018	158						1260		
8/7/2018		242		99		1180			
8/8/2018			166		292				
9/25/2018									86
10/1/2018								50	
2/25/2019	92						1160		
2/26/2019		69	293	109	226	1010			
3/29/2019								63	
4/2/2019									72
6/12/2019	226		391		298				
6/13/2019		301		136		1410	1310		
9/25/2019								64	81

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
10/8/2019	276						1050		
10/9/2019		526	372			1680			
10/10/2019				109	247				
3/17/2020	185	306		175			588		
3/18/2020			351		703	1520		57	
3/24/2020									71
9/22/2020	281	675	394	110	217				
9/23/2020						1000	820		99
9/25/2020								54	
3/1/2021		974	516		666				
3/2/2021	296 (D)			167		980		67	
3/3/2021							942		57
8/18/2021		1200	474	214	630	1660	682		
8/19/2021								54	
8/20/2021	254								
8/27/2021									93

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			120	54					
6/2/2016								36	
6/6/2016	120	58							
6/7/2016					38	60			
7/25/2016				48				50	
7/26/2016			94						
7/27/2016	94	35			74				
7/28/2016						81			
9/13/2016			105	67					
9/14/2016							152		
9/16/2016		35							
9/19/2016	92				45	68		35	
11/1/2016			44					<25	
11/2/2016					53				
11/3/2016	104	48				61			
11/4/2016				60			148		
12/15/2016							191		
1/11/2017	133	95	107						
1/13/2017					46	76			
1/16/2017				65			180	47	
2/21/2017								<25	
3/1/2017	119	79							
3/2/2017			98	61					
3/3/2017							156		
3/6/2017					164	167			
4/26/2017	162	36			34	50		55	
4/27/2017			116	31					
4/28/2017							130		
5/26/2017							223		
6/27/2017			89	42					
6/28/2017	98	45					166		
6/29/2017					68	94			
6/30/2017								42	
10/3/2017			119	58		149	153		
10/4/2017		45			54			31	
10/5/2017	104								
10/11/2017									68
11/20/2017									139
1/11/2018									153
2/20/2018									87
4/3/2018									85
6/5/2018			127			109			
6/6/2018				96	79				
6/7/2018	68						146		
6/11/2018		74						59	
6/28/2018									88
8/7/2018									89
9/24/2018									82
9/25/2018	109	63			73	122			
10/1/2018			117	60			155		
10/2/2018								57	
3/27/2019									75

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			87	87					
3/29/2019							150		
4/1/2019								54	
4/2/2019						134			
4/3/2019	89	63			57				
9/24/2019			124	54		157	146		
9/25/2019					75			51	
9/26/2019	126	72							
10/9/2019									119
3/18/2020				35					
3/19/2020			116				148	47	
3/24/2020	91	59			76	117			
3/25/2020									158
9/23/2020	103	81	108	15			161		
9/24/2020					69	113		51	170
3/1/2021								23	
3/3/2021	95	37	99	39	53		138		
3/4/2021						110			168
8/19/2021			105	44				50	
8/26/2021		31							249
8/27/2021	112				67		150		
9/1/2021						137			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		150					
6/2/2016	130				96	160	66
7/25/2016		135					
7/26/2016	141				92	177	78
8/30/2016				319			
9/14/2016		127			102	187	73
9/15/2016	153						
11/1/2016	92	75					
11/2/2016					115	181	
11/4/2016							75
11/14/2016				280			
1/11/2017	159	148					
1/12/2017						202	86
1/13/2017					67		
2/24/2017				162			
3/1/2017		182					
3/2/2017	117						
3/6/2017					159		
3/7/2017						257	108
4/26/2017	181	92					
5/1/2017					107	165	
5/2/2017							103
5/8/2017				194			
6/27/2017						189	73
6/28/2017	169	126					
6/29/2017					79		
7/11/2017				193			
10/3/2017						170	89
10/4/2017	141	147					
10/5/2017					95		
10/10/2017				175			
10/12/2017			74				
11/20/2017			179				
1/10/2018			140				
2/19/2018			119				
4/2/2018				192			
4/3/2018			106				
6/6/2018						151	
6/7/2018	95				90		142
6/8/2018		158					
6/28/2018			112				
8/7/2018			103				
9/19/2018				186			
9/24/2018			107				
9/26/2018					116	144	86
10/1/2018	165	138					
3/26/2019			90				
3/27/2019				170			
4/1/2019	149	19 (J)					
4/3/2019					111	142	83
9/24/2019						129	79
9/25/2019	157	159			117		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				172			
10/9/2019			98				
3/17/2020				165			
3/19/2020	146	148					
3/24/2020			84			139	68
3/25/2020					146		
9/22/2020				141	83	104	75
9/23/2020	157	155					
9/24/2020			77				
3/1/2021				145			
3/2/2021						52	67
3/3/2021	137	111			80		
3/4/2021			57				
8/19/2021	144			134			
8/26/2021					93	123	86
8/27/2021		155					
9/3/2021			88				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
5/1/2007	<0.001								
9/11/2007	<0.001								
3/20/2008	<0.001								
8/27/2008	<0.001								
3/3/2009	<0.001								
9/9/2009							<0.001		
11/18/2009	<0.001						<0.001		
1/5/2010							<0.001		
3/3/2010	<0.001						<0.001		
9/7/2010							<0.001		
9/8/2010	<0.001								
11/22/2010			<0.001		<0.001				
1/4/2011			<0.001		<0.001				
2/17/2011			<0.001		<0.001				
3/10/2011	<0.001						<0.001		
3/11/2011			<0.001		<0.001				
3/28/2011			<0.001		<0.001				
9/7/2011			<0.001	<0.001	<0.001	<0.001			
9/8/2011	<0.001	<0.001					<0.001		
3/4/2012					<0.001				
3/5/2012	<0.001	<0.001		<0.001		<0.001	<0.001		
3/6/2012			<0.001						
9/5/2012		<0.001		<0.001		<0.001	<0.001		
9/10/2012	<0.001				<0.001				
9/11/2012			<0.001						
2/5/2013		<0.001				<0.001	<0.001		
2/6/2013	<0.001		<0.001	<0.001	<0.001				
8/12/2013	<0.001								
8/13/2013		<0.001	<0.001	<0.001			<0.001		
8/14/2013					<0.001	<0.001			
2/4/2014		<0.001	<0.001		<0.001		<0.001		
2/5/2014	<0.001			<0.001		<0.001			
8/4/2014				<0.001	<0.001	<0.001			
8/5/2014	<0.001	<0.001					<0.001		
2/2/2015		<0.001	<0.001		<0.001				
2/3/2015				<0.001		<0.001	<0.001		
2/4/2015	<0.001								
2/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
2/17/2016			7E-05 (J)						
6/2/2016								<0.001	
6/7/2016									<0.001
7/26/2016								<0.001	
7/27/2016									<0.001
8/31/2016	<0.001	<0.001	<0.001	<0.001					
9/1/2016					<0.001	<0.001	<0.001		
9/15/2016								<0.001	
9/16/2016									<0.001
11/2/2016								<0.001	
11/3/2016									<0.001
11/28/2016	<0.001		<0.001						
11/29/2016		<0.001					<0.001		
11/30/2016				<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
12/1/2016						<0.001			
1/10/2017								<0.001	
1/11/2017									<0.001
2/22/2017	<0.001		<0.001						
2/23/2017		<0.001		<0.001			<0.001		
2/24/2017					<0.001	<0.001			
3/2/2017									<0.001
3/8/2017								<0.001	
4/26/2017								<0.001	
5/2/2017									<0.001
5/8/2017	6E-05 (J)								
5/9/2017		<0.001		<0.001					
5/10/2017			<0.001		<0.001	<0.001	<0.001		
6/29/2017									<0.001
6/30/2017								<0.001	
7/17/2017	6E-05 (J)					<0.001			
7/18/2017		<0.001	<0.001	<0.001	<0.001		<0.001		
10/16/2017	7E-05 (J)					<0.001			
10/17/2017		<0.001	<0.001		<0.001				
10/18/2017				<0.001			<0.001		
2/19/2018	<0.001						<0.001		
2/20/2018			<0.001		<0.001				
2/21/2018		<0.001		<0.001		<0.001			
3/27/2018								<0.001	
3/28/2018									<0.001
8/6/2018	<0.001						<0.001		
8/7/2018		<0.001		<0.001		<0.001			
8/8/2018			<0.001		<0.001				
2/25/2019	<0.001						<0.001		
2/26/2019		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
3/5/2019									<0.001
4/2/2019									<0.001
6/12/2019	<0.001		<0.001		<0.001				
6/13/2019		<0.001		<0.001		<0.001	<0.001		
8/19/2019	5.5E-05 (J)				<0.001				
8/20/2019		<0.001	<0.001				<0.001		
8/21/2019				<0.001		5.3E-05 (J)			
9/25/2019									<0.001
10/8/2019	<0.001						<0.001		
10/9/2019		<0.001	<0.001			<0.001			
10/10/2019				<0.001	<0.001				
2/11/2020									<0.001
2/12/2020								8.9E-05 (J)	
3/17/2020	<0.001	<0.001		<0.001			<0.001		
3/18/2020			<0.001		<0.001	<0.001		<0.001	
3/24/2020									<0.001
8/26/2020	<0.001								
8/27/2020		<0.001				<0.001	<0.001		
8/28/2020			<0.001	<0.001	<0.001				
9/22/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
9/23/2020						<0.001	<0.001		<0.001
9/25/2020								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
2/10/2021								<0.001	
3/1/2021		<0.001	<0.001		<0.001				
3/2/2021	<0.001			<0.001		<0.001			
3/3/2021							<0.001		
8/18/2021		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
8/20/2021	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.001	<0.001					
6/2/2016								<0.001	
6/6/2016	<0.001	<0.001							
6/7/2016					<0.001	<0.001			
7/25/2016				<0.001				<0.001	
7/26/2016			<0.001						
7/27/2016	<0.001	<0.001			<0.001				
7/28/2016						<0.001			
9/13/2016			<0.001	<0.001					
9/14/2016							<0.001		
9/16/2016		<0.001							
9/19/2016	<0.001				<0.001	<0.001		<0.001	
11/1/2016			<0.001					<0.001	
11/2/2016					<0.001				
11/3/2016	<0.001	<0.001				<0.001			
11/4/2016				<0.001			<0.001		
12/15/2016							<0.001		
1/11/2017	<0.001	<0.001	<0.001						
1/13/2017					<0.001	<0.001			
1/16/2017				<0.001			<0.001	<0.001	
2/21/2017								<0.001	
3/1/2017	<0.001	<0.001							
3/2/2017			<0.001	<0.001					
3/3/2017							<0.001		
3/6/2017					<0.001	<0.001			
4/26/2017	<0.001	<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		
6/29/2017					<0.001	<0.001			
6/30/2017								<0.001	
10/11/2017									<0.001
11/20/2017									<0.001
1/11/2018									<0.001
2/20/2018									<0.001
3/27/2018				<0.001				<0.001	
3/28/2018	<0.001	<0.001					<0.001		
3/29/2018			<0.001		<0.001	<0.001			
4/3/2018									<0.001
6/28/2018									<0.001
8/7/2018									<0.001
9/24/2018									<0.001
9/25/2018						<0.001			
2/26/2019								<0.001	
2/27/2019			<0.001	<0.001			<0.001		
3/5/2019		<0.001			<0.001	<0.001			
3/6/2019	<0.001								
4/2/2019						<0.001			
4/3/2019	<0.001	<0.001			<0.001				
8/21/2019									<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
9/24/2019						<0.001			
9/25/2019					<0.001				
9/26/2019	<0.001	<0.001							
2/10/2020			<0.001	5.5E-05 (J)					
2/11/2020	<0.001	<0.001					<0.001		
2/12/2020					<0.001	<0.001		<0.001	<0.001
3/18/2020				<0.001					
3/19/2020			<0.001				<0.001	<0.001	
3/24/2020	<0.001	<0.001			<0.001	<0.001			
3/25/2020									<0.001
9/23/2020	<0.001	<0.001	<0.001	<0.001			<0.001		
9/24/2020					<0.001	<0.001		<0.001	<0.001
2/9/2021	<0.001	<0.001			<0.001	<0.001			
2/10/2021							<0.001		<0.001
2/11/2021								<0.001	
2/12/2021			<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.001					
6/2/2016	<0.001				<0.001	<0.001	<0.001
7/25/2016		<0.001					
7/26/2016	0.0001 (J)				<0.001	<0.001	<0.001
8/30/2016				<0.001			
9/14/2016		<0.001			<0.001	<0.001	<0.001
9/15/2016	<0.001						
11/1/2016	<0.001	<0.001					
11/2/2016					<0.001	<0.001	
11/4/2016							<0.001
11/14/2016				<0.001			
1/11/2017	<0.001	<0.001					
1/12/2017						<0.001	<0.001
1/13/2017					<0.001		
2/24/2017				<0.001			
3/1/2017		<0.001					
3/2/2017	<0.001						
3/6/2017					<0.001		
3/7/2017						<0.001	<0.001
4/26/2017	<0.001	<0.001					
5/1/2017					<0.001	<0.001	
5/2/2017							<0.001
5/8/2017				<0.001			
6/27/2017						<0.001	<0.001
6/28/2017	<0.001	<0.001					
6/29/2017					<0.001		
7/11/2017				<0.001			
10/10/2017				<0.001			
10/12/2017			<0.001				
11/20/2017			<0.001				
1/10/2018			<0.001				
2/19/2018			<0.001				
3/28/2018	<0.001	<0.001					
3/29/2018					<0.001	<0.001	<0.001
4/2/2018				<0.001			
4/3/2018			<0.001				
6/28/2018			<0.001				
8/7/2018			<0.001				
9/19/2018				<0.001			
9/24/2018			<0.001				
2/27/2019	<0.001	<0.001					
3/4/2019					<0.001	<0.001	<0.001
4/3/2019					<0.001	<0.001	<0.001
8/20/2019				5.8E-05 (J)			
8/21/2019			<0.001				
9/24/2019						<0.001	<0.001
9/25/2019					<0.001		
10/8/2019				8.4E-05 (J)			
2/11/2020		<0.001					
2/12/2020	<0.001		<0.001		<0.001	<0.001	<0.001
3/17/2020				<0.001			
3/19/2020	<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/24/2020			<0.001			<0.001	<0.001
3/25/2020					<0.001		
8/27/2020				<0.001			
9/22/2020					<0.001	<0.001	<0.001
9/23/2020	<0.001	0.00016 (J)					
9/24/2020			<0.001				
2/8/2021						<0.001	<0.001
2/9/2021					<0.001		
2/10/2021	<0.001	<0.001	<0.001				
8/19/2021				<0.001			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	0.0055						
9/11/2007	0.004						
3/20/2008	<0.01						
8/27/2008	0.0029						
3/3/2009	<0.01						
9/9/2009							<0.01
11/18/2009	<0.01						<0.01
1/5/2010							<0.01
3/3/2010	<0.01						<0.01
9/7/2010							<0.01
9/8/2010	<0.01						
11/22/2010			<0.01		<0.01		
1/4/2011			<0.01		<0.01		
2/17/2011			<0.01		<0.01		
3/10/2011	<0.01						<0.01
3/11/2011			<0.01		<0.01		
3/28/2011			<0.01		<0.01		
9/7/2011			<0.01	<0.01	<0.01	<0.01	
9/8/2011	<0.01	<0.01					<0.01
3/4/2012					<0.01		
3/5/2012	<0.01	<0.01		<0.01		<0.01	<0.01
3/6/2012			<0.01				
9/5/2012		<0.01		<0.01		<0.01	<0.01
9/10/2012	<0.01				<0.01		
9/11/2012			<0.01				
2/5/2013		<0.01				<0.01	<0.01
2/6/2013	<0.01		<0.01	<0.01	<0.01		
8/12/2013	<0.01						
8/13/2013		<0.01	<0.01	<0.01			<0.01
8/14/2013					<0.01	<0.01	
2/4/2014		<0.01	<0.01		<0.01		<0.01
2/5/2014	<0.01			<0.01		<0.01	
8/4/2014				<0.01	<0.01	0.0022 (J)	
8/5/2014	<0.01	0.0011 (J)	<0.01				0.0015 (J)
2/2/2015		0.0051	<0.01		<0.01		
2/3/2015				<0.01		<0.01	0.00093 (J)
2/4/2015	<0.01						
8/3/2015	0.0013 (J)			<0.01 (D)	<0.01 (D)	0.0019 (JD)	
8/4/2015		<0.01 (D)	<0.01				0.0036 (J)
2/16/2016	<0.01	0.00075 (J)		<0.01	<0.01	0.0011 (J)	0.0011 (J)
2/17/2016			<0.01				
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018	<0.01						0.0029 (J)
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
2/25/2019	<0.01						<0.01
2/26/2019		<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019	0.0032 (J)		0.00079 (J)		0.00088 (J)		
6/13/2019		<0.01		0.0021 (J)		<0.01	<0.01
10/8/2019	<0.01						<0.01
10/9/2019		<0.01	<0.01			<0.01	
10/10/2019				0.0011 (J)	<0.01		
3/17/2020	<0.01	<0.01		<0.01			0.00098 (J)
3/18/2020			<0.01		<0.01	<0.01	
9/22/2020	<0.01	<0.01	<0.01	<0.01	<0.01		
9/23/2020						<0.01	<0.01
3/1/2021		<0.01	<0.01		<0.01		
3/2/2021	<0.01			<0.01		<0.01	
3/3/2021							<0.01
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	0.01							
9/20/1999	0.017							
9/12/2001	0.017							
9/3/2002	0.015							
7/29/2003	0.022							
12/5/2003	0.0087							
9/22/2004	<0.01							
5/1/2007		0.0081						
9/11/2007		0.0049						
3/20/2008		0.004						
8/27/2008		0.0042						
3/3/2009		0.0058						
9/9/2009								0.003
11/18/2009		0.0038						<0.01
1/5/2010								0.0027
3/3/2010		0.0085						<0.01
9/7/2010								<0.01
9/8/2010		0.0065						
11/22/2010				0.0047		<0.01		
1/4/2011				0.0038		<0.01		
2/17/2011				0.0074		<0.01		
3/10/2011		0.0029						<0.01
3/11/2011				0.0038		0.025 (o)		
3/28/2011				<0.01		<0.01		
9/7/2011				0.0059	0.0064	<0.01	0.0064	
9/8/2011		0.004	0.0048					<0.01
3/4/2012						<0.01		
3/5/2012		0.0059	0.0038		0.0043		0.0034	0.0053
3/6/2012				0.0032				
9/5/2012			0.0051		0.0069		0.0035	0.0033
9/10/2012		0.0052				<0.01		
9/11/2012				0.0029				
2/5/2013			<0.01				0.0027	<0.01
2/6/2013		0.0038		0.0036	<0.01	<0.01		
8/12/2013		0.0075						
8/13/2013			<0.01	0.0066	0.011			0.0038
8/14/2013						<0.01	0.0041	
2/4/2014			0.0037	0.011		0.0034		0.0046
2/5/2014		0.018 (o)			0.026 (o)		0.011	
8/4/2014					0.012	0.0013 (J)	0.011	
8/5/2014		0.0037	0.0019 (J)	0.0032				0.0019 (J)
2/2/2015			0.0051	0.0031		<0.01		
2/3/2015					0.0061		0.0044	0.0026
2/4/2015		0.0057						
8/3/2015		0.0043			0.0037 (D)	<0.01 (D)	0.011 (D)	
8/4/2015			0.0017 (JD)	0.0017 (J)				0.0035
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014	0.002 (J)
2/17/2016				0.0034				
2/22/2017		0.0042 (J)		0.0024 (J)				
2/23/2017			0.0024 (J)		0.0031 (J)			0.0038 (J)
2/24/2017						0.0028 (J)	0.0043 (J)	
5/8/2017		0.0025 (J)						

Time Series

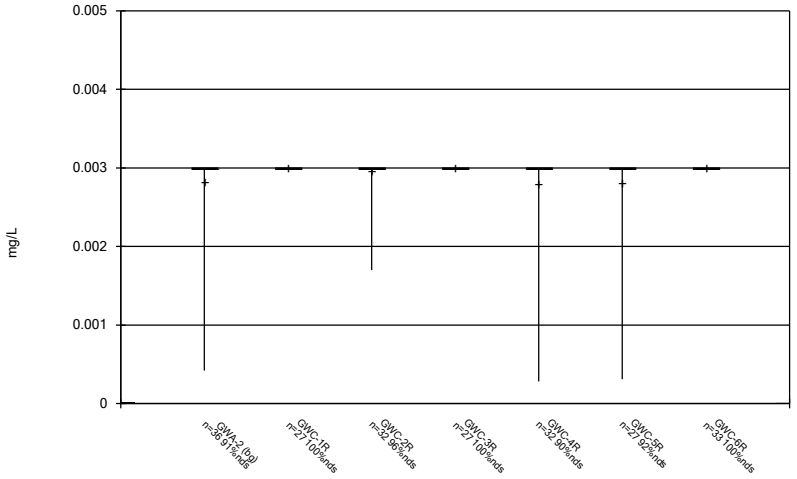
Constituent: Zinc (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/9/2017			0.0016 (J)		0.0025 (J)			
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)	0.0027 (J)
7/17/2017		0.0032 (J)					0.0055 (J)	
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)		0.0024 (J)
2/19/2018		<0.01						<0.01
2/20/2018				<0.01		<0.01		
2/21/2018			<0.01		0.003 (J)		0.0102	
8/6/2018		0.0037 (J)						0.004 (J)
8/7/2018			0.0044 (J)		0.0036 (J)		0.015	
8/8/2018				0.0021 (J)		0.0033 (J)		
2/25/2019		0.013						0.0028 (J)
2/26/2019			0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015	
6/12/2019		<0.01		0.0019 (J)		<0.01		
6/13/2019			<0.01		0.0069 (J)		0.015	<0.01
10/8/2019		0.0078 (J)						0.006 (J)
10/9/2019			0.0078 (J)	0.0069 (J)			0.025	
10/10/2019					0.0079 (J)	0.006 (J)		
1/21/2020							0.015	
3/17/2020		<0.01	<0.01		<0.01			<0.01
3/18/2020				<0.01		<0.01	0.023	
9/22/2020		0.033	0.0029 (J)	0.003 (J)	0.0036 (J)	<0.01		
9/23/2020							0.018	<0.01
3/1/2021			<0.01	<0.01		<0.01		
3/2/2021		0.031			0.0069 (J)		0.022	
3/3/2021								<0.01
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026	<0.01
8/20/2021		0.014						

FIGURE B.

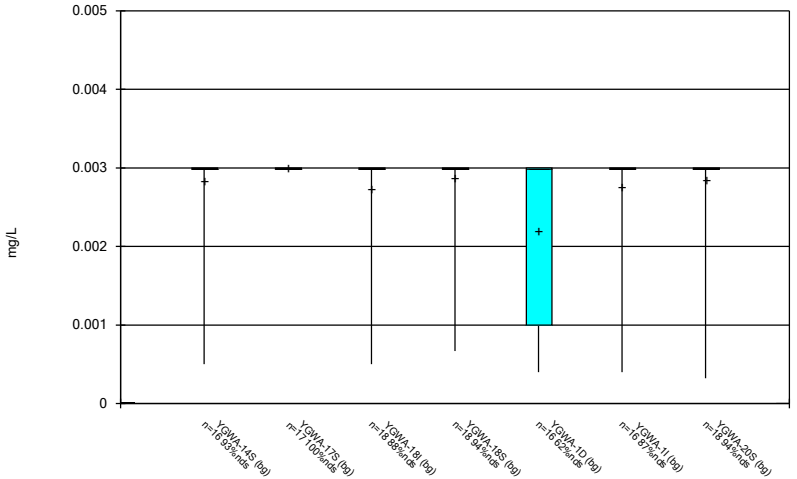
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

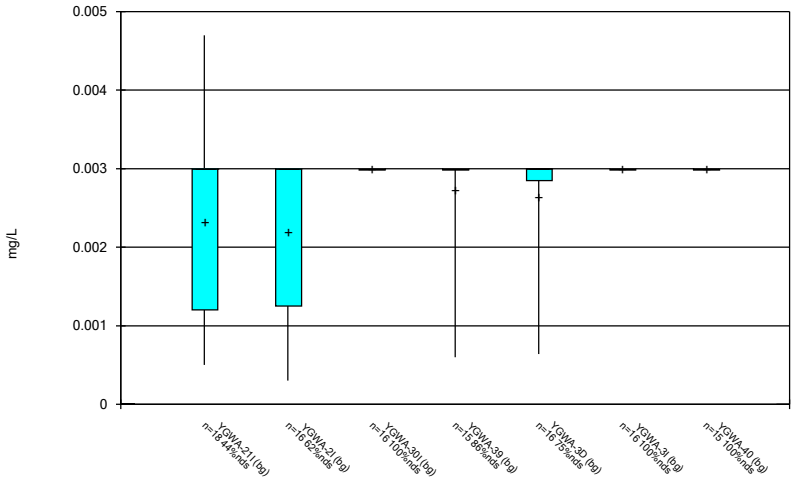
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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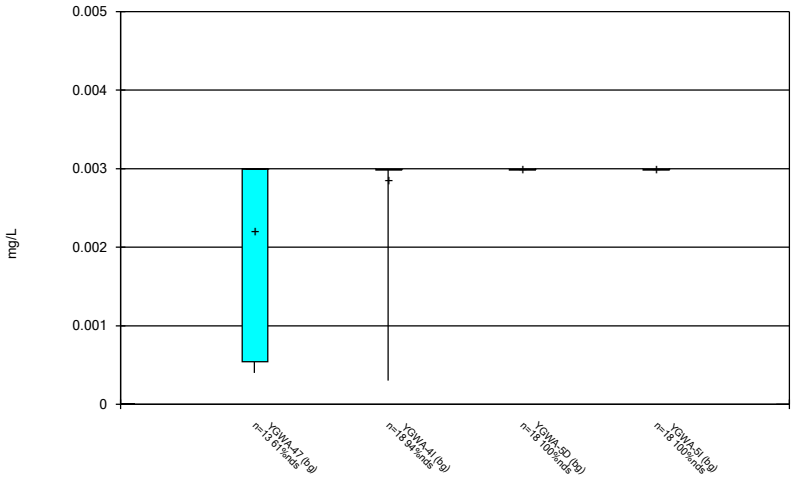
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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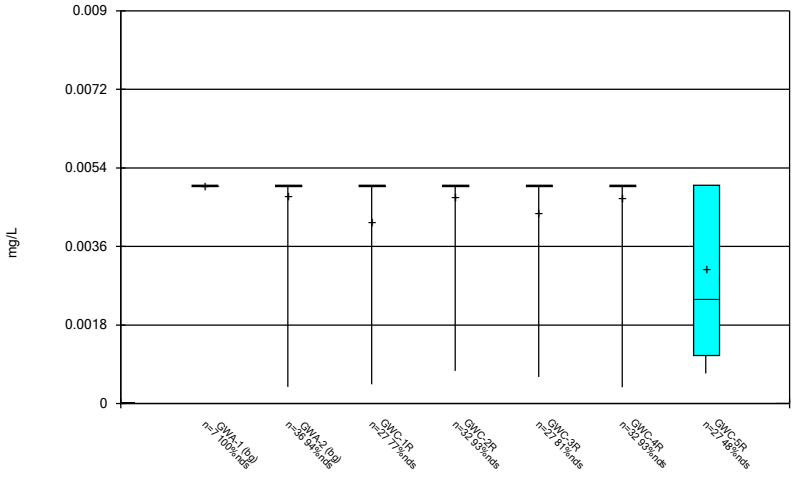
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

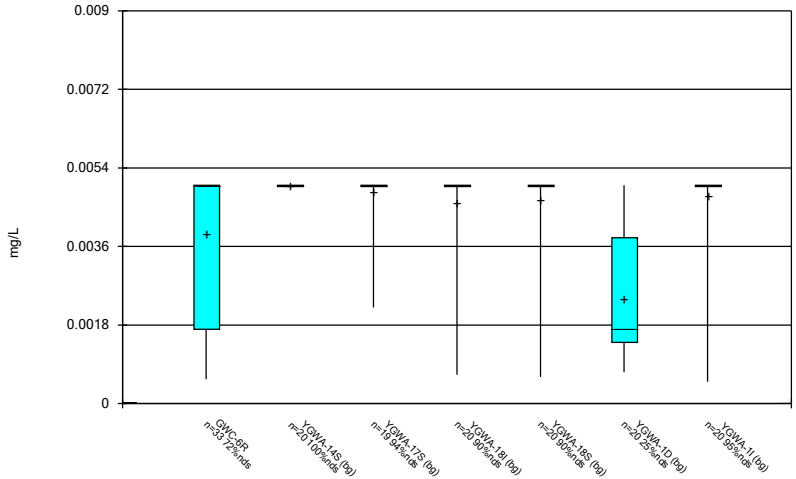
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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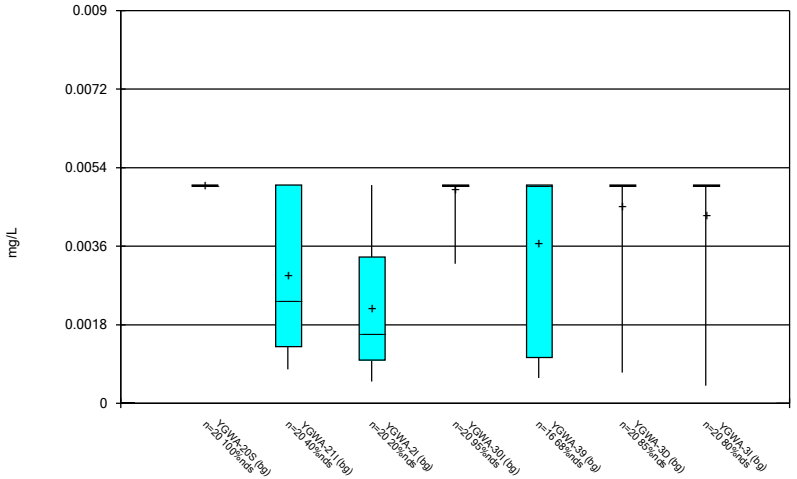
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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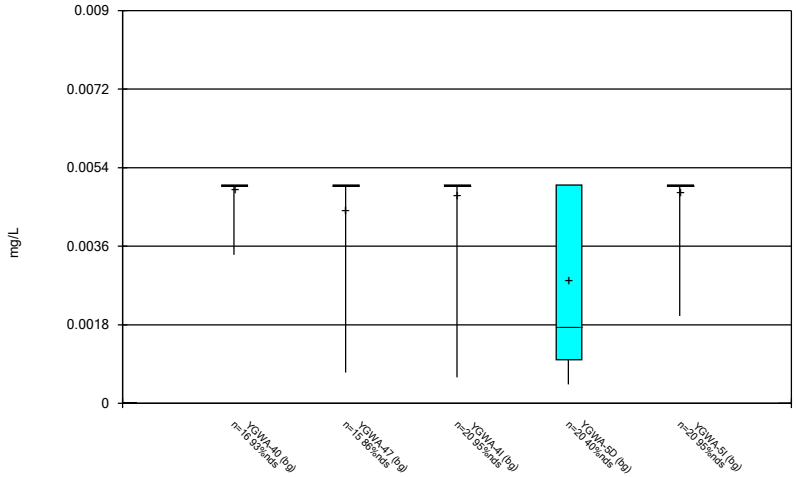
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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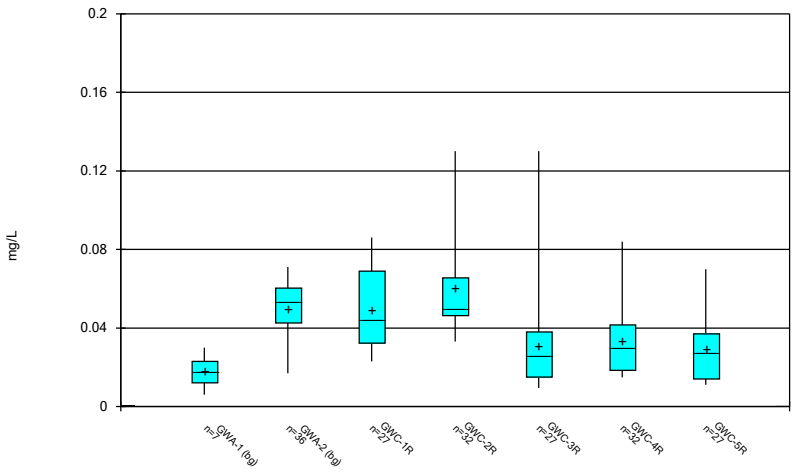
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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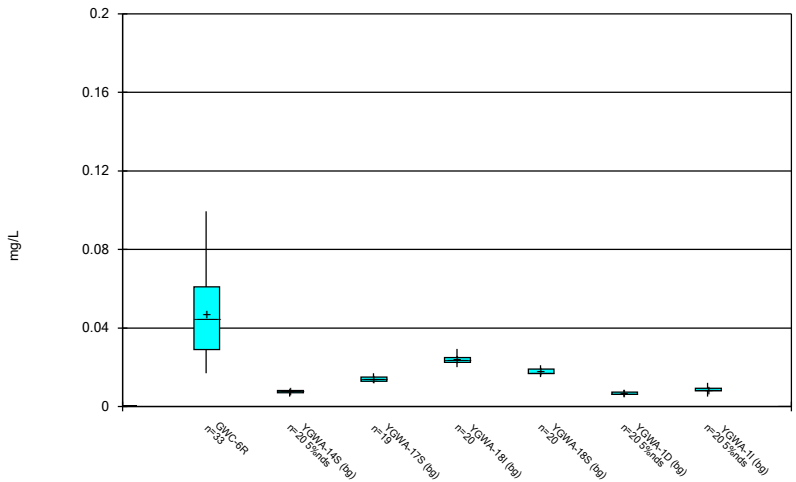
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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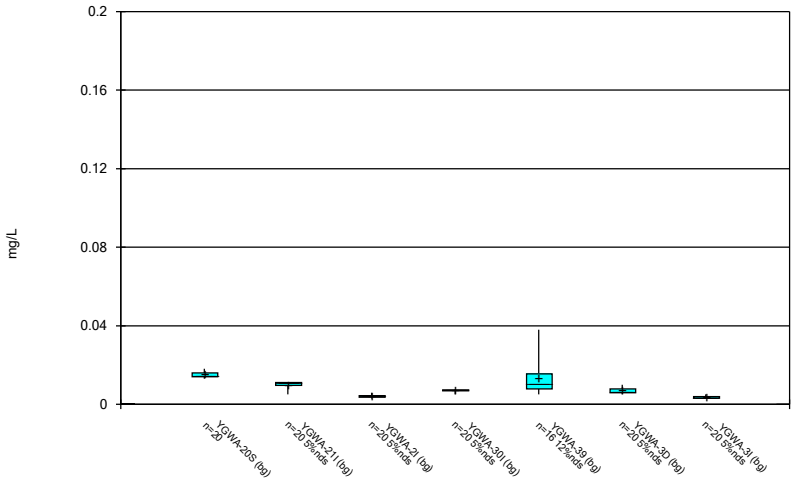
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

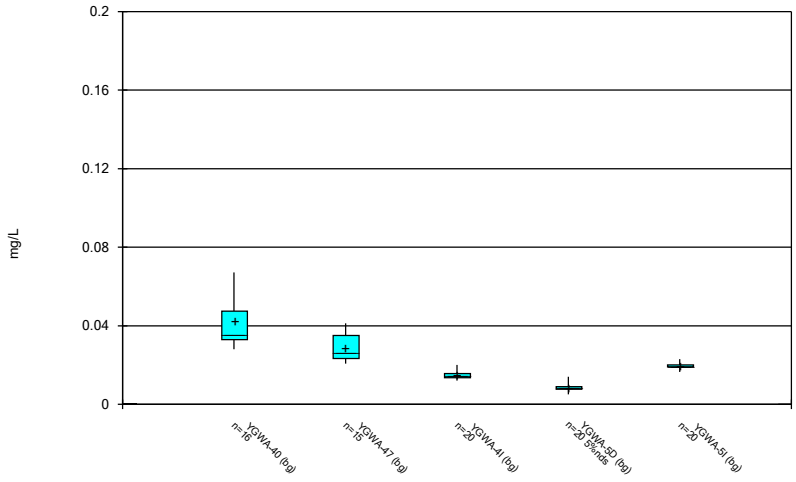
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

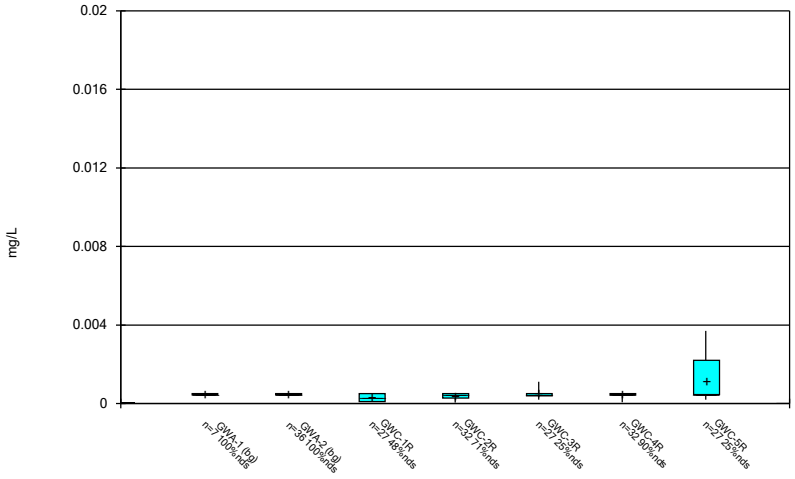
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

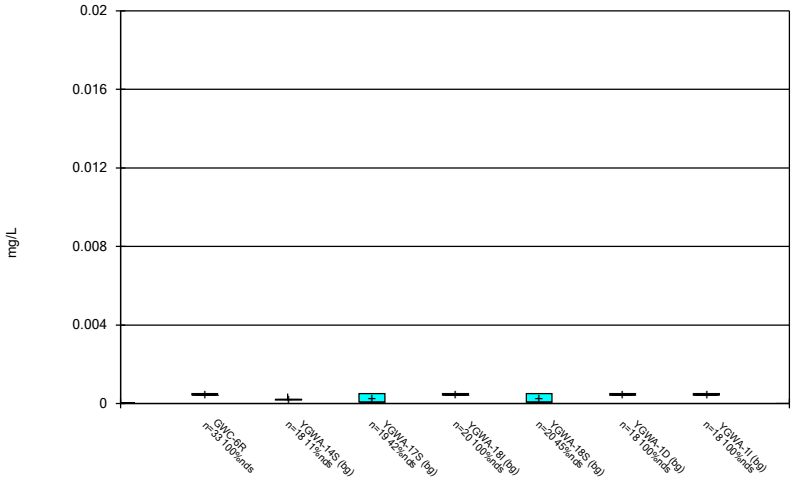
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

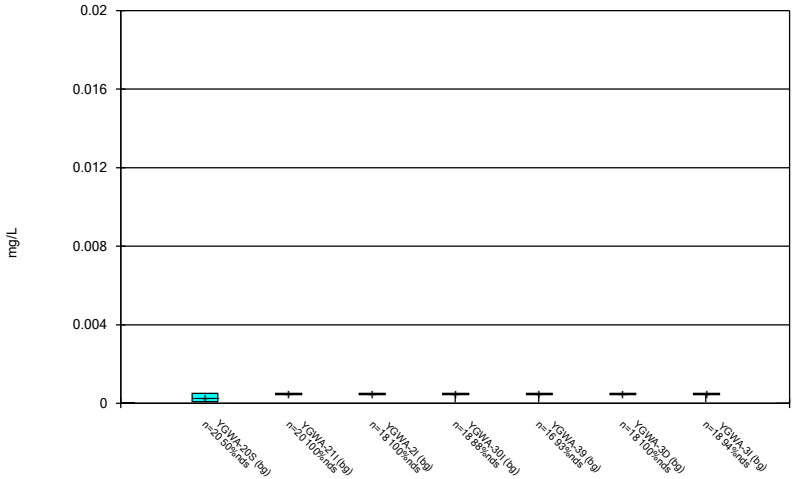
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/29/2021 3:38 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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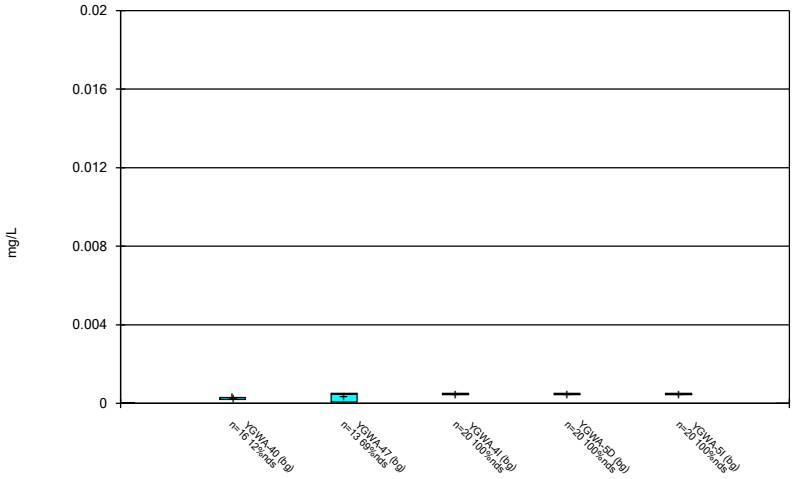
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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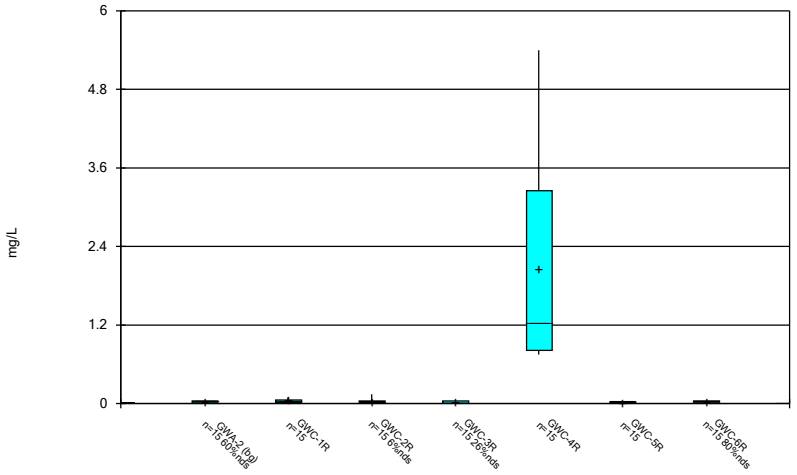
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

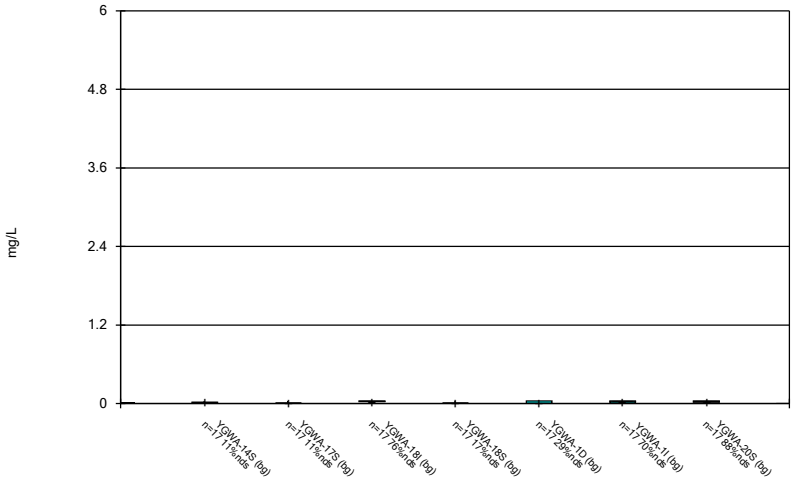
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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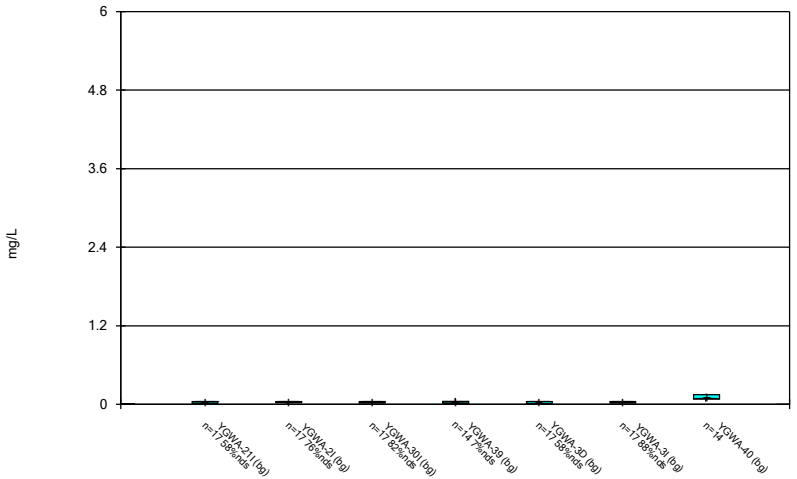
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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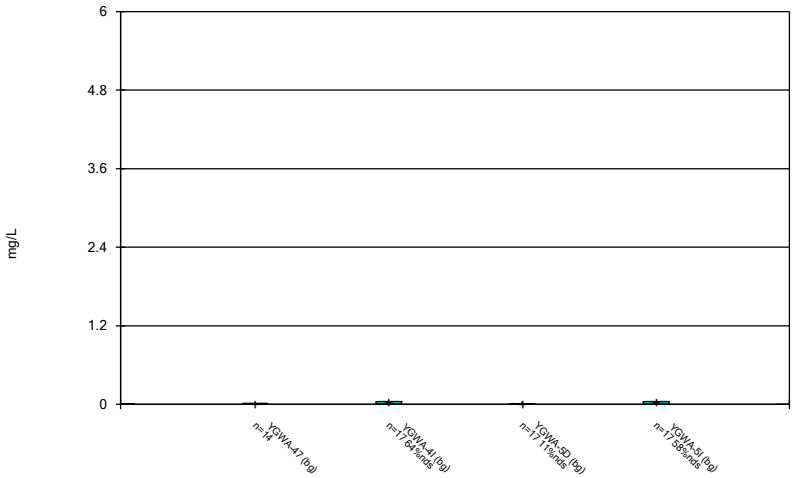
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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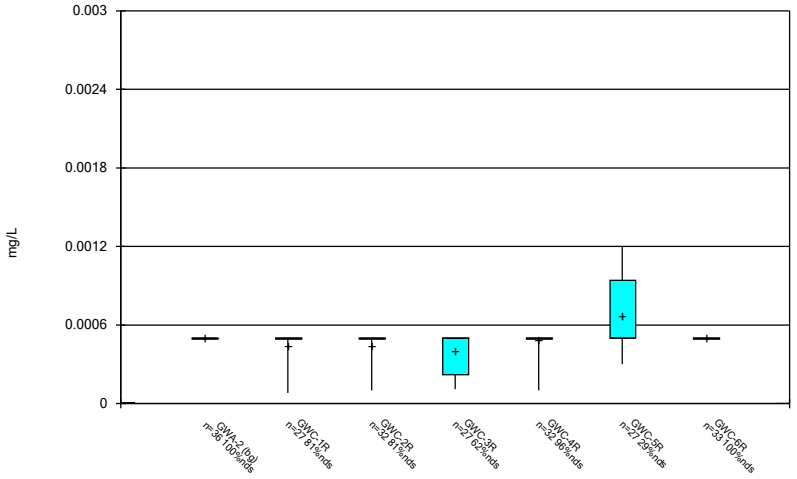
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

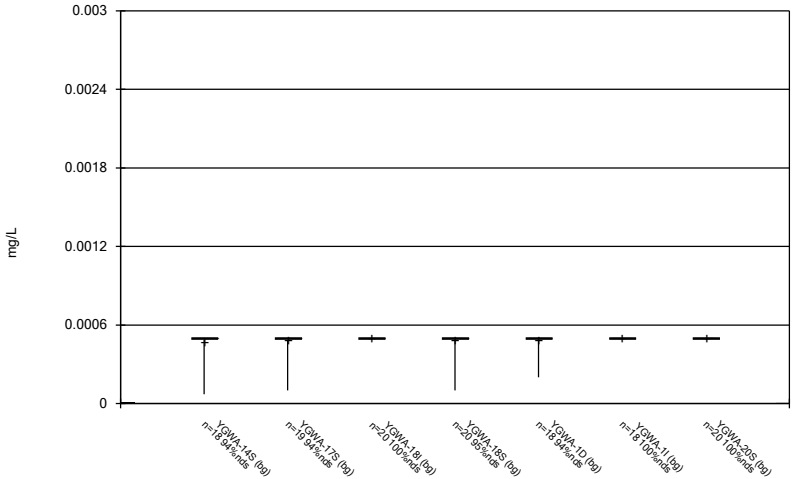
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

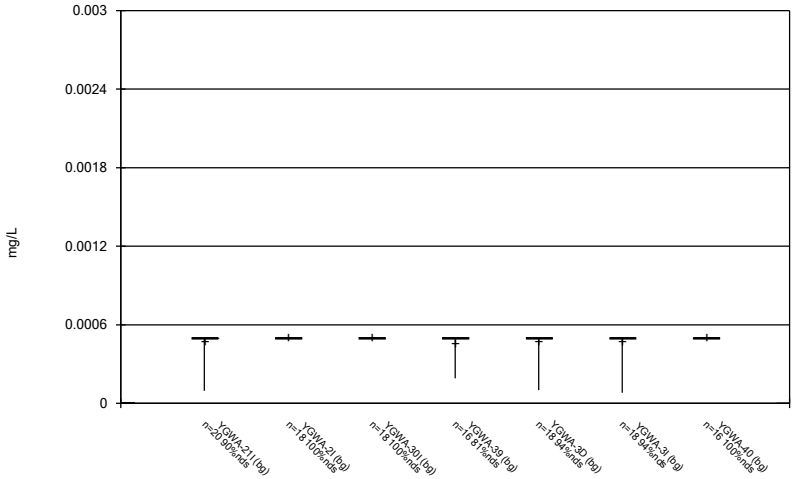
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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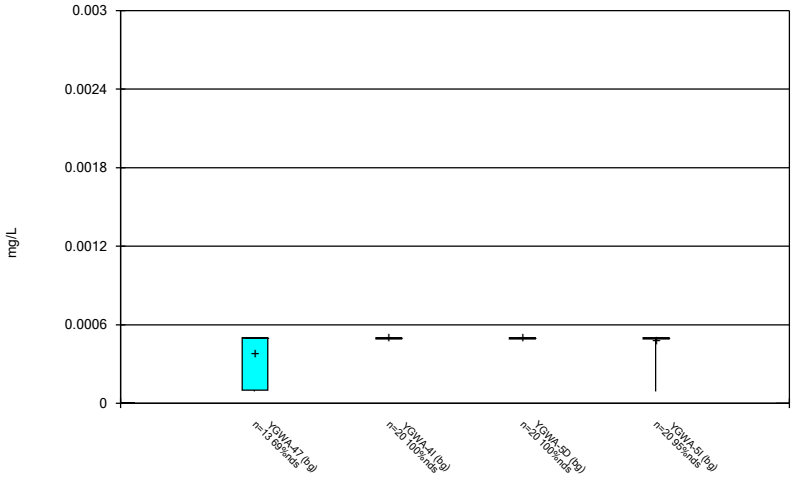
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

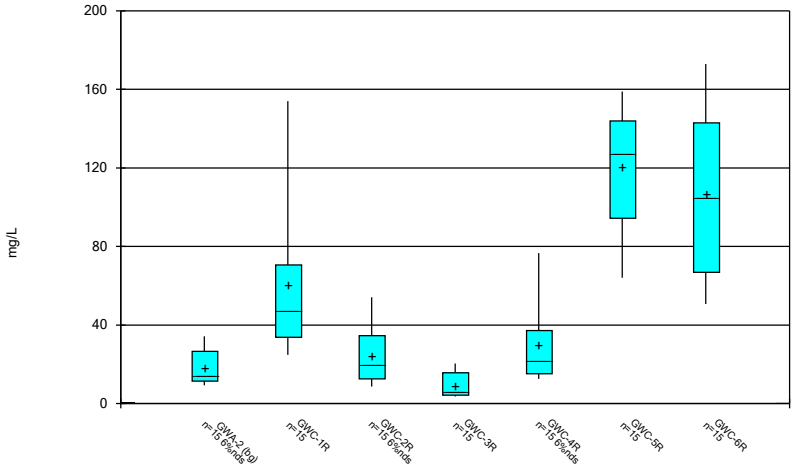
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

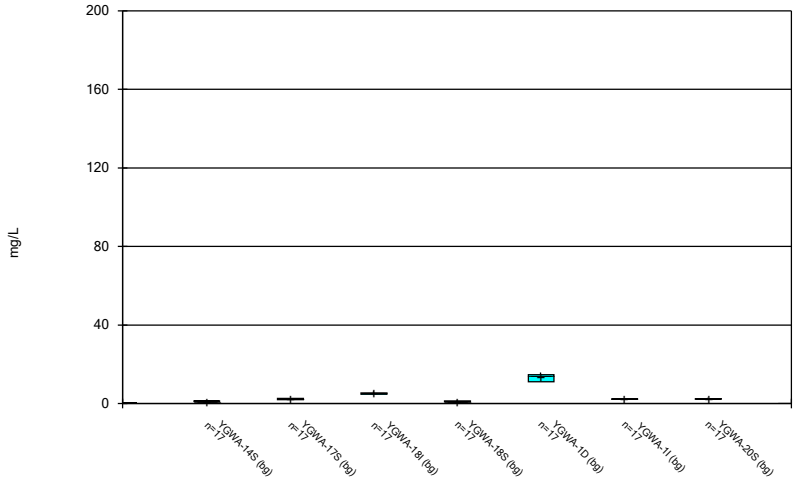
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

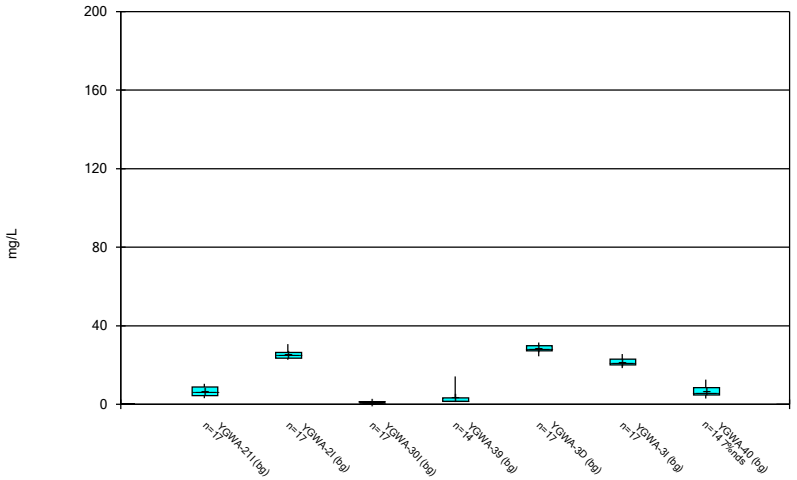
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

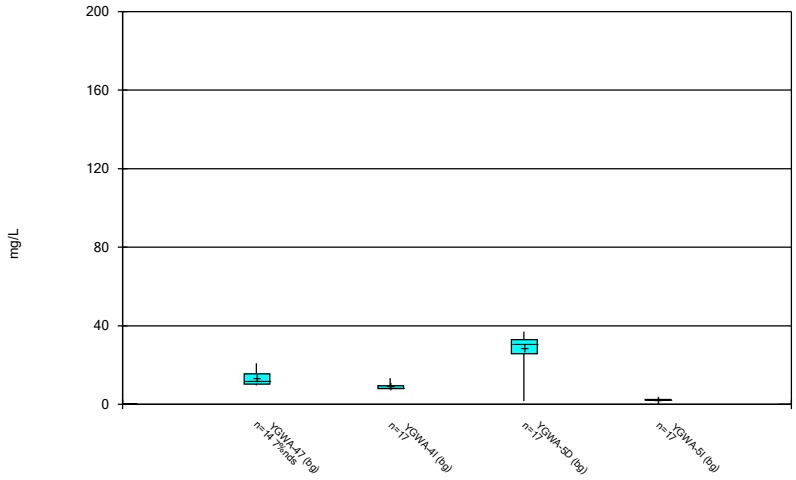
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

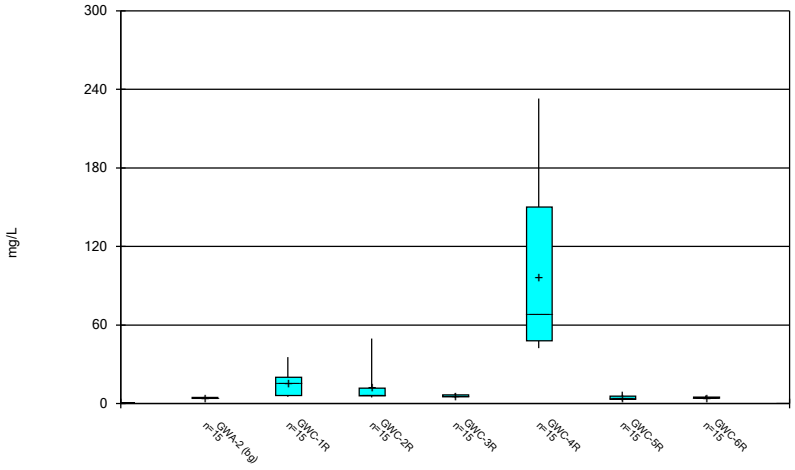
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

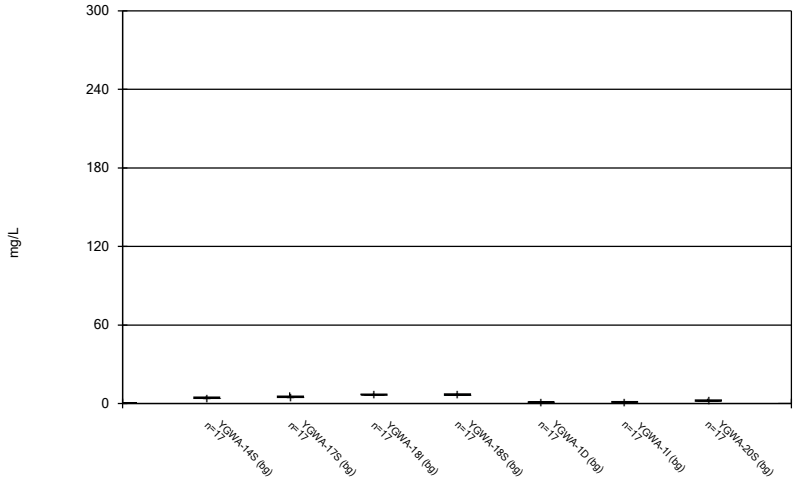
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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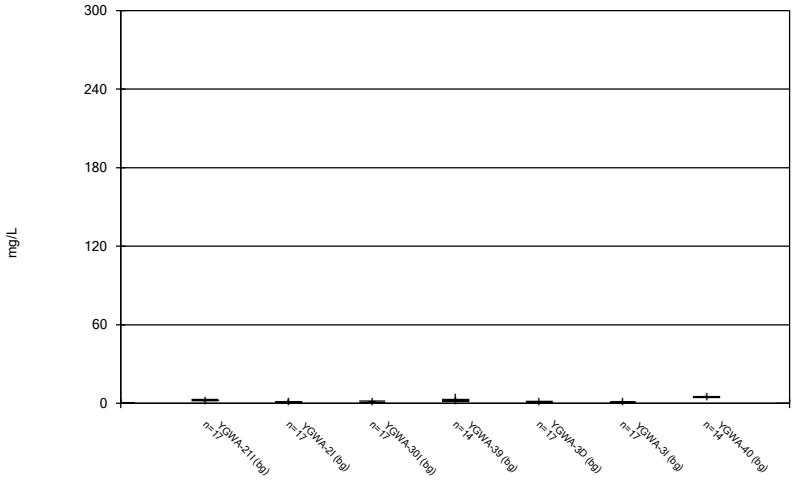
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

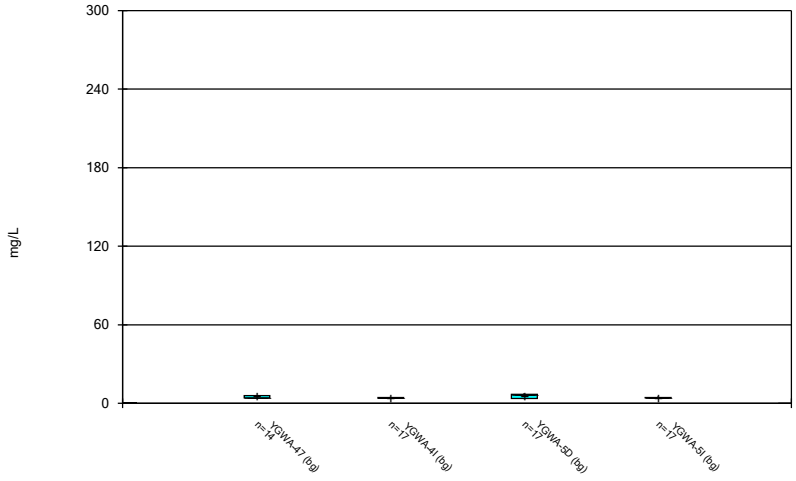
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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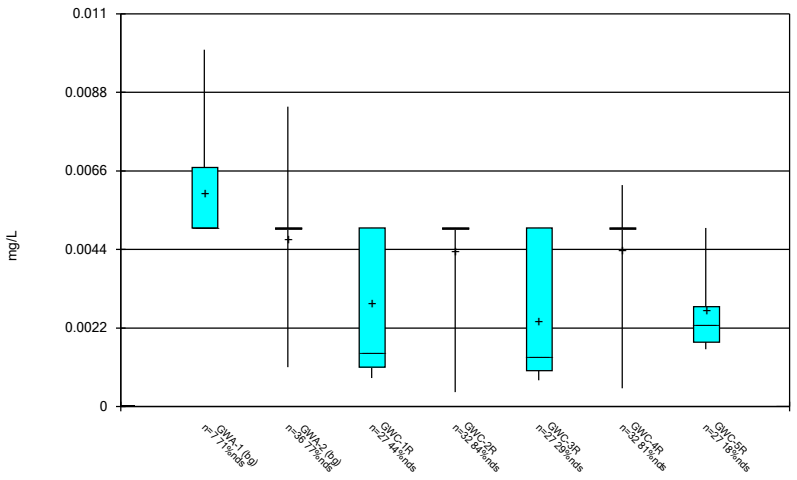
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

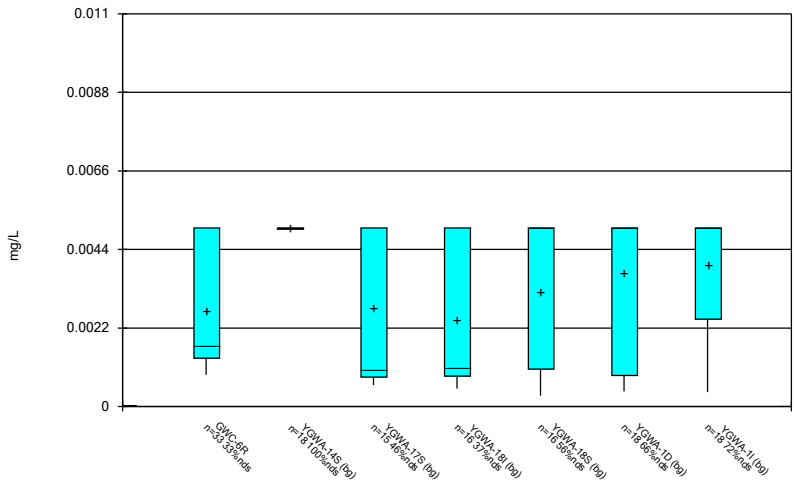
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

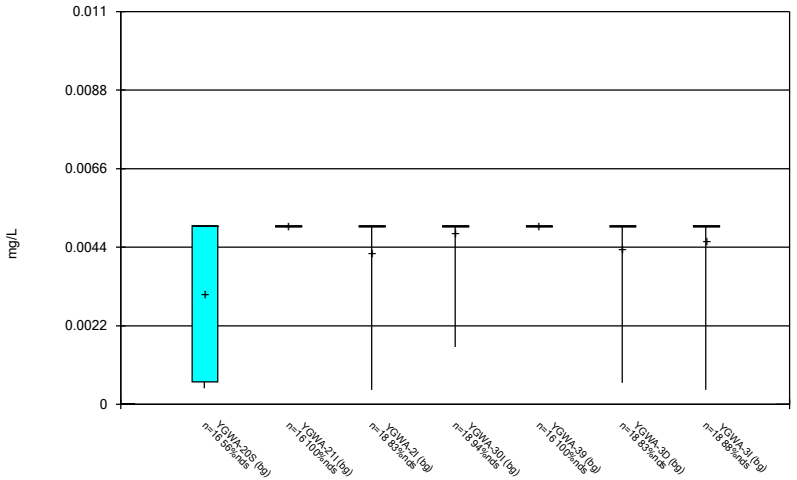
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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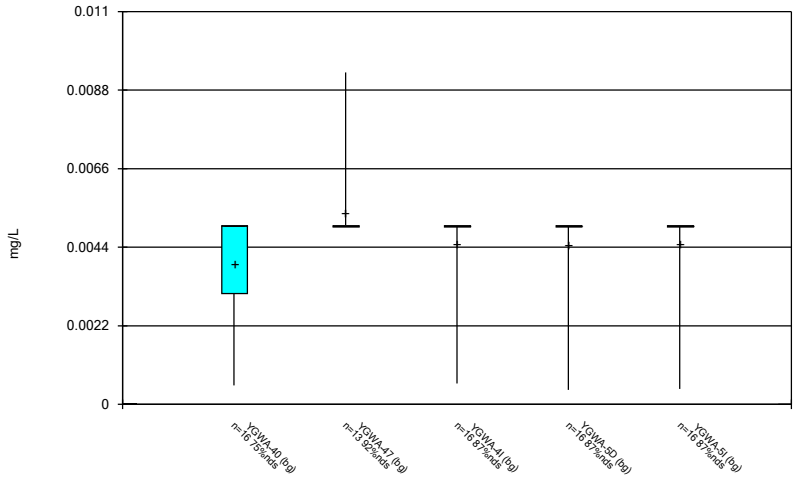
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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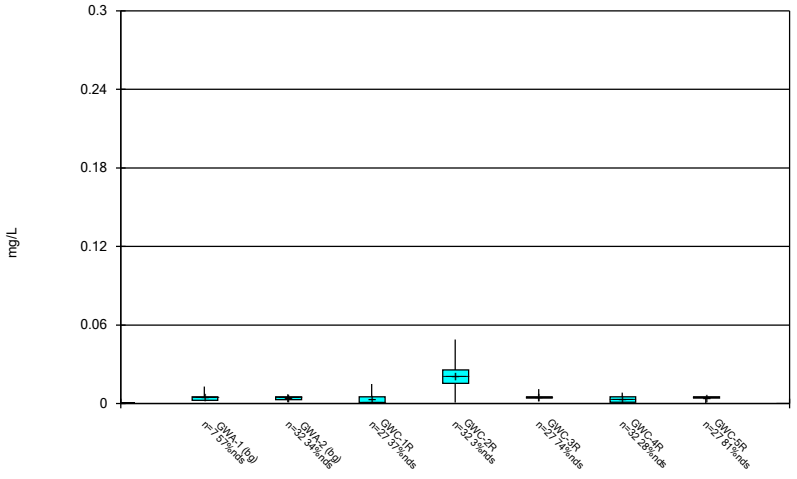
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

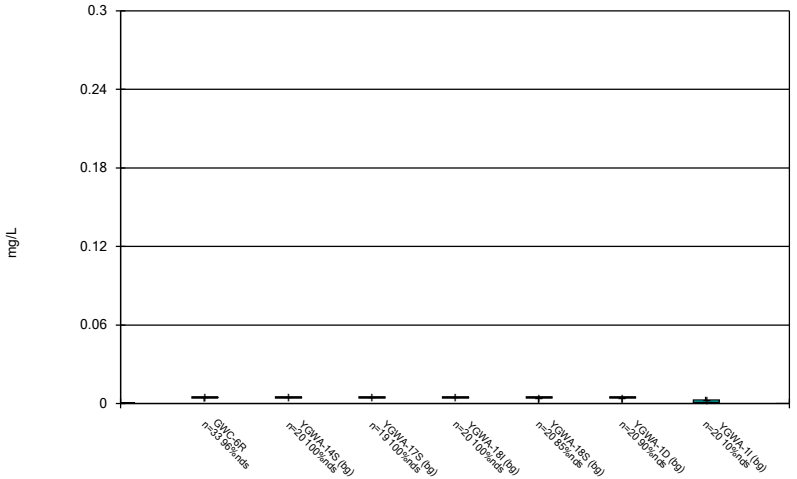
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

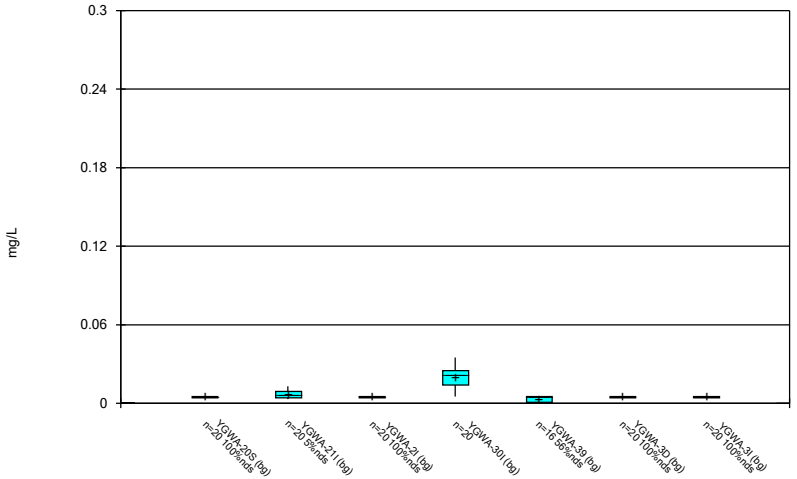
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

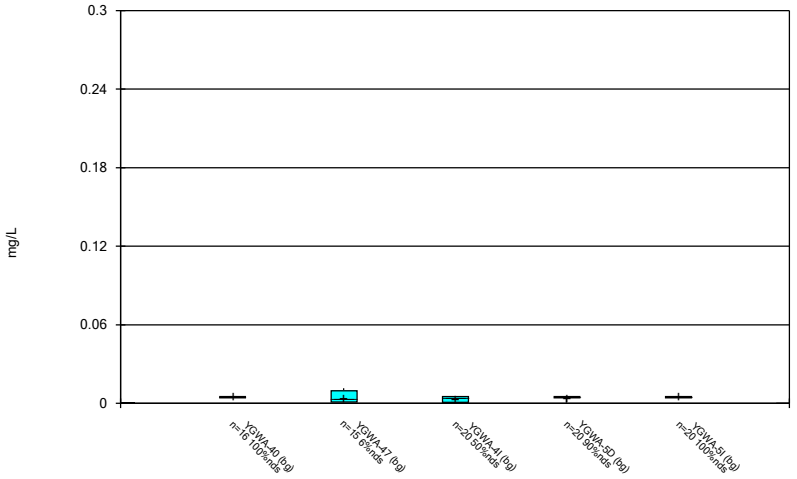
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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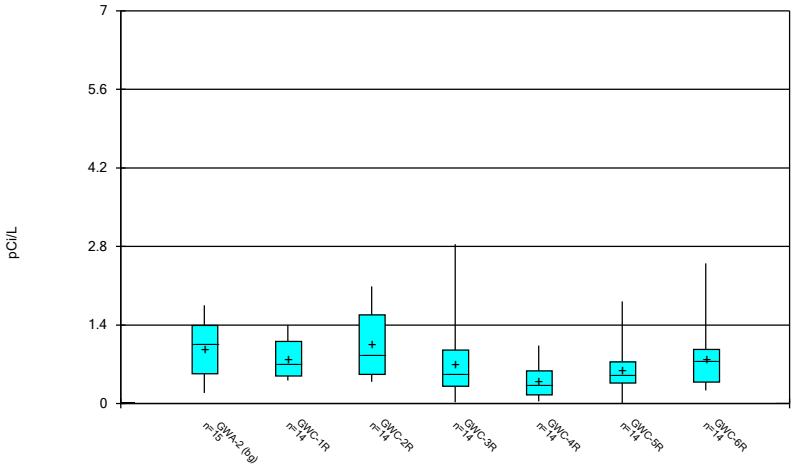
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

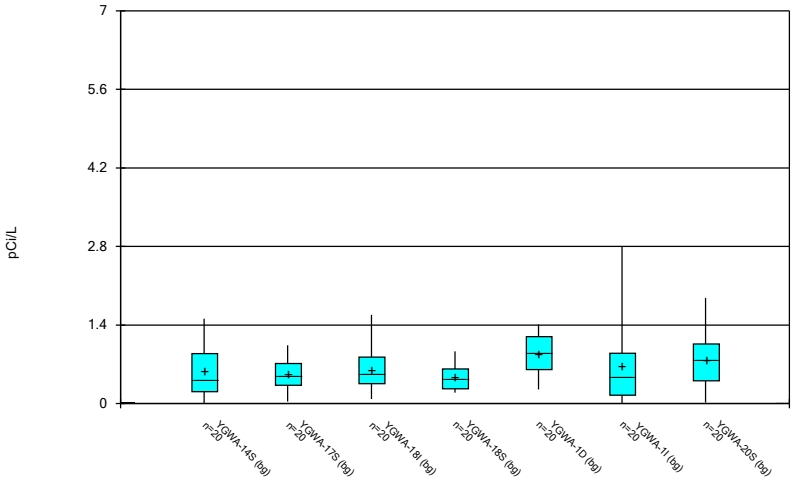
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

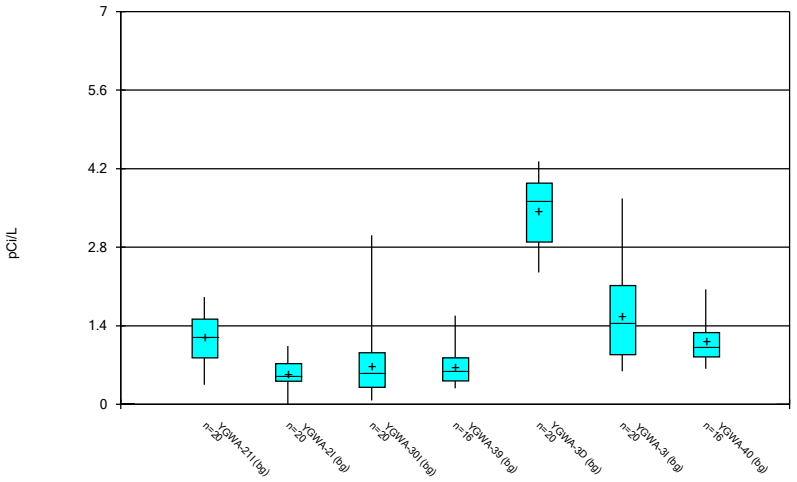
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

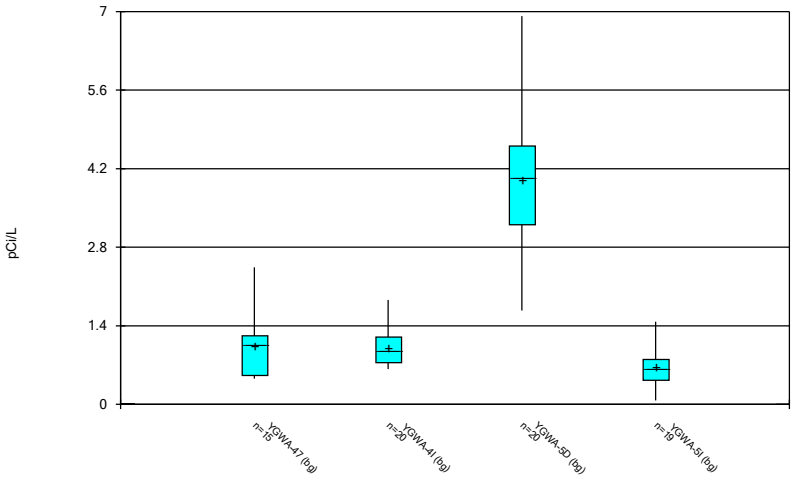
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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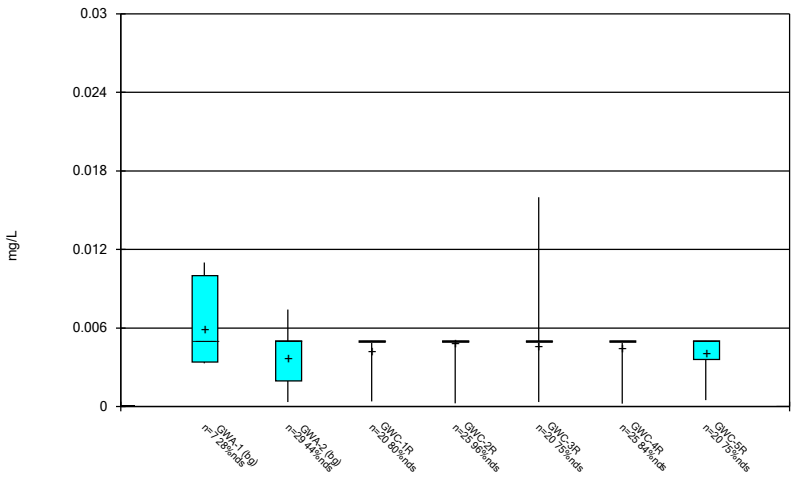
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

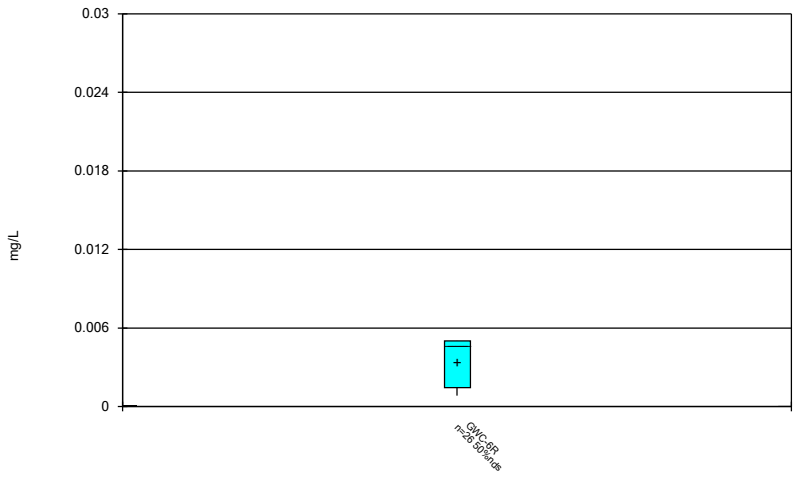
Box & Whiskers Plot



Constituent: Copper Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

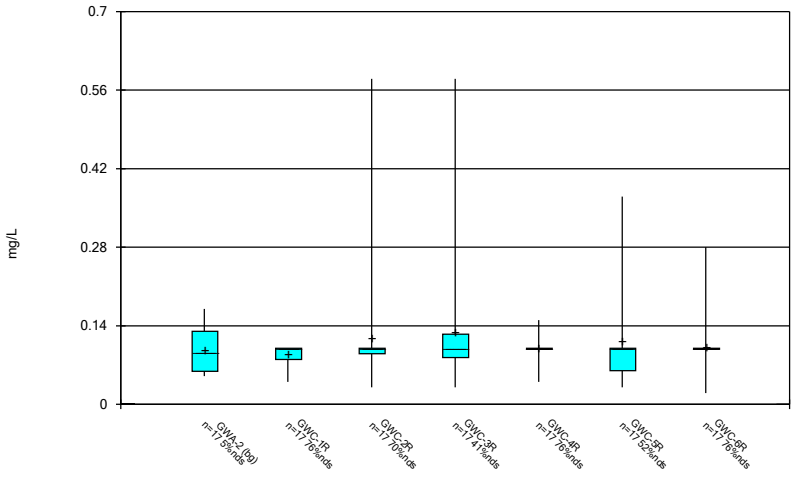
Box & Whiskers Plot



Constituent: Copper Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

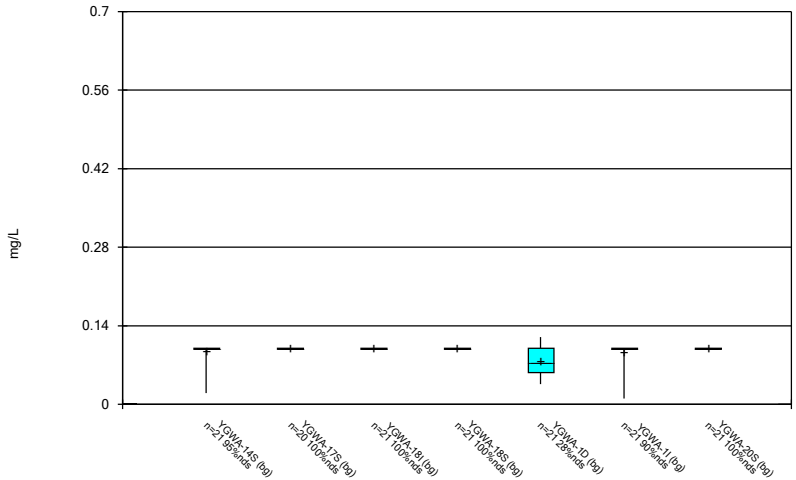
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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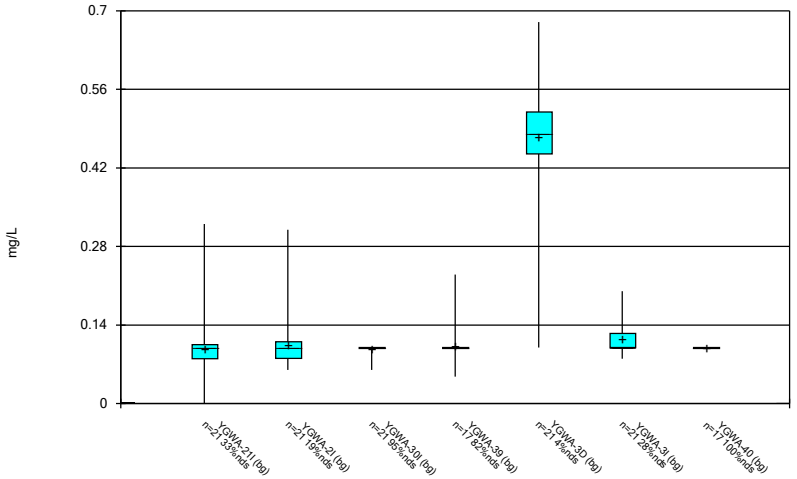
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

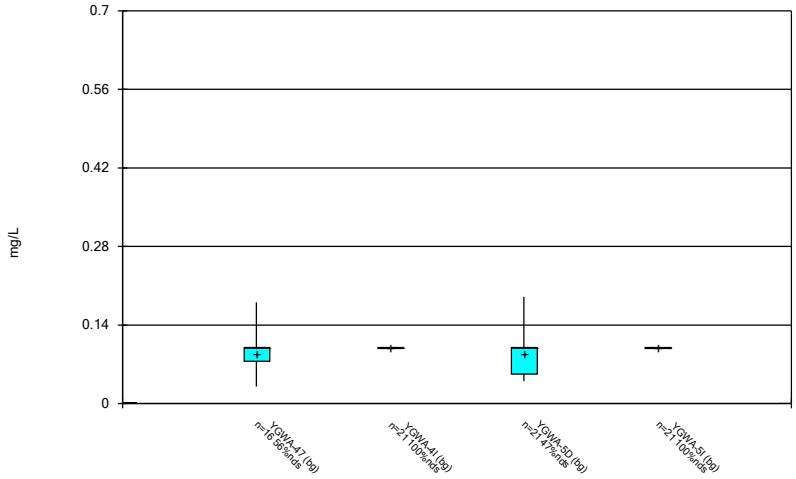
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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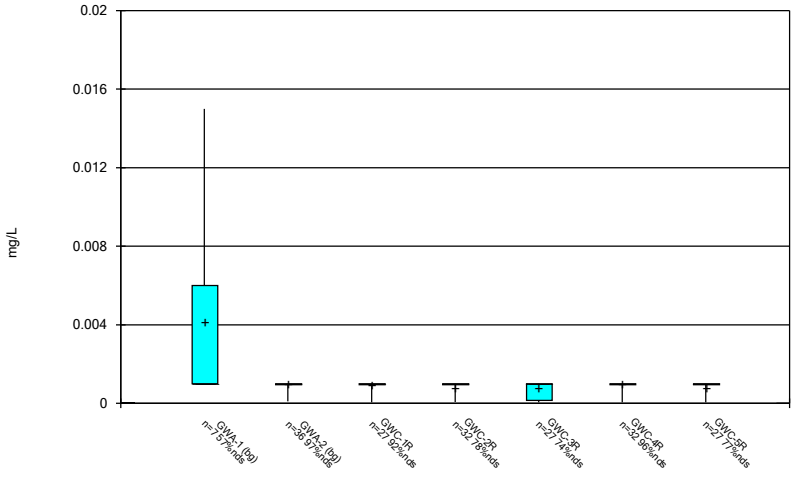
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

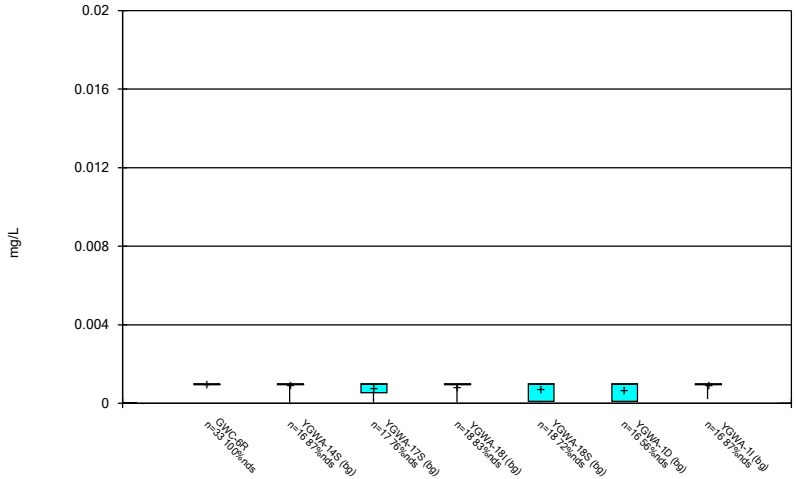
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

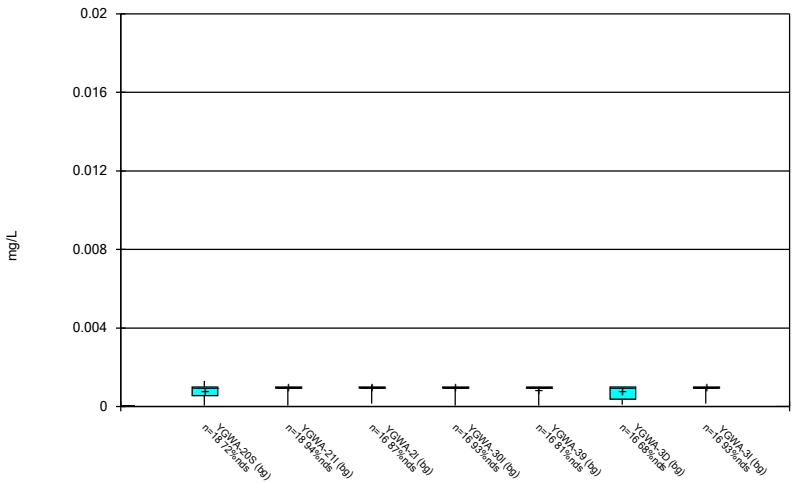
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

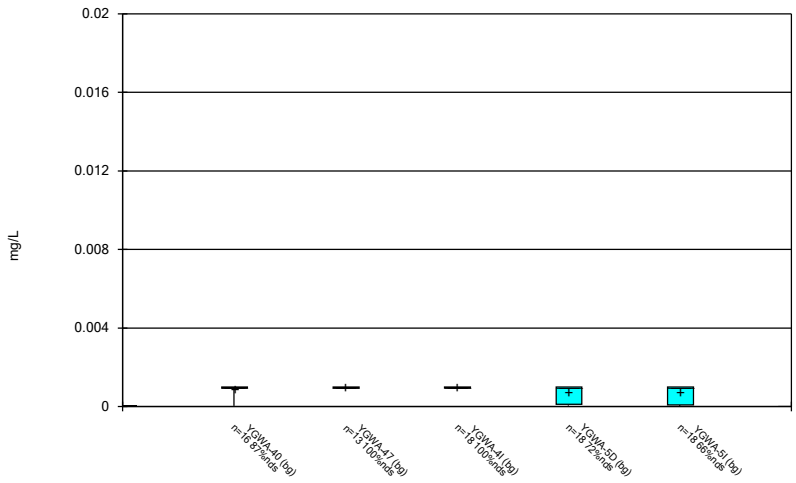
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

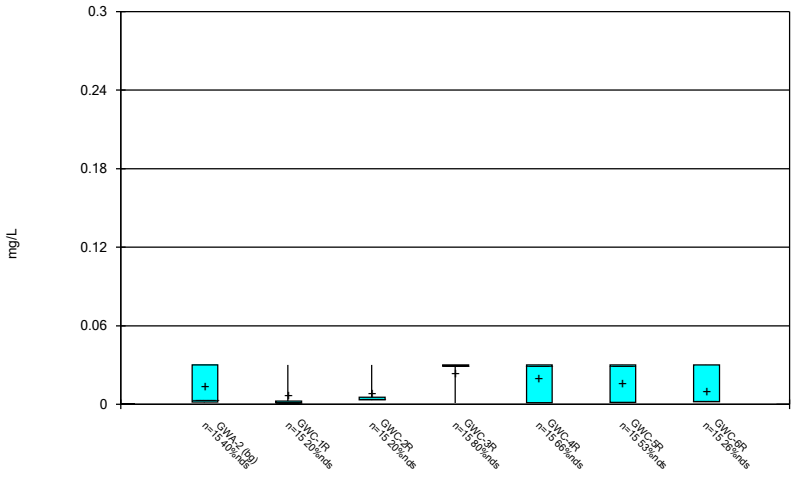
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

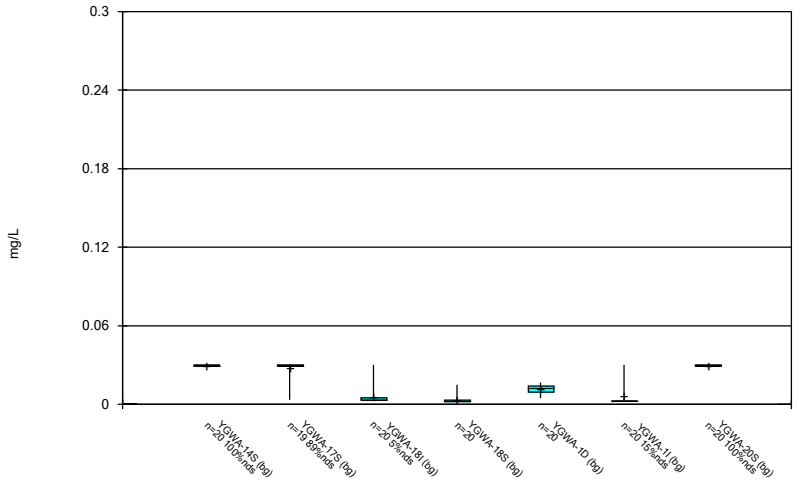
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

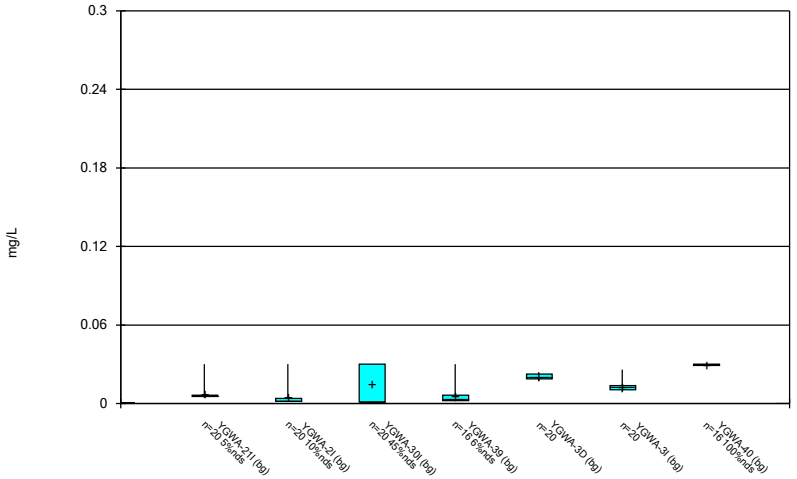
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

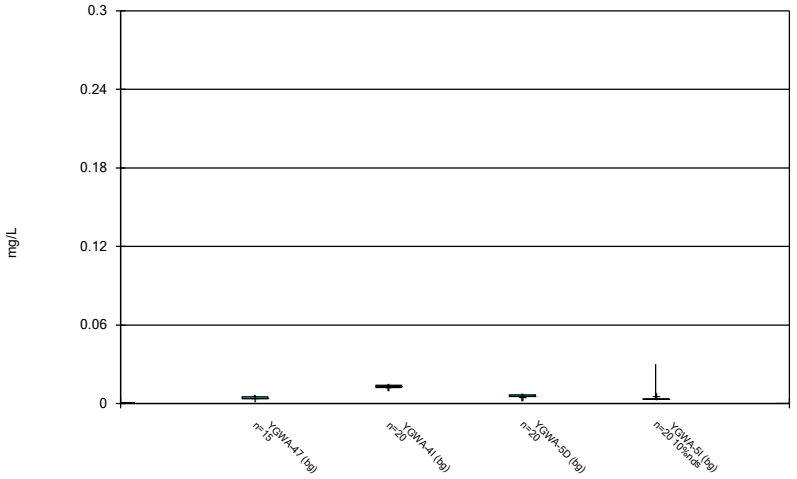
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

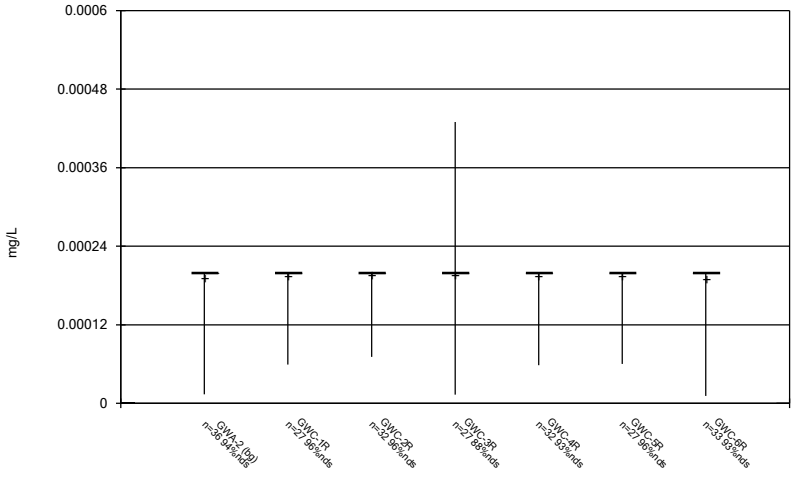
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

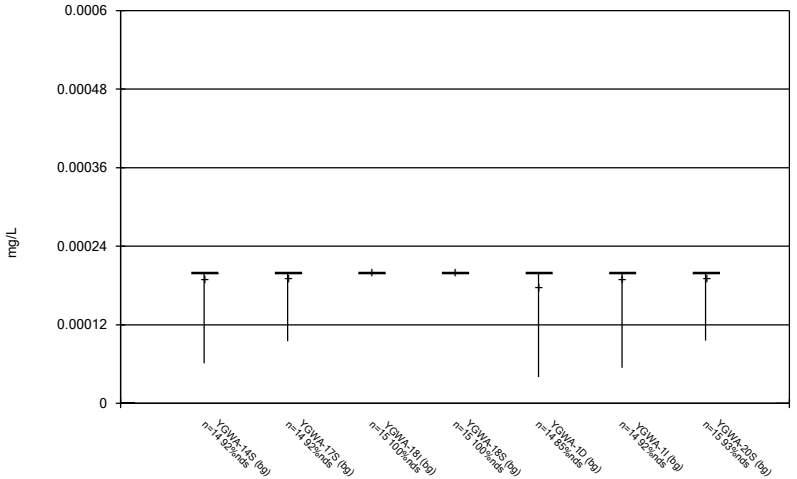
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

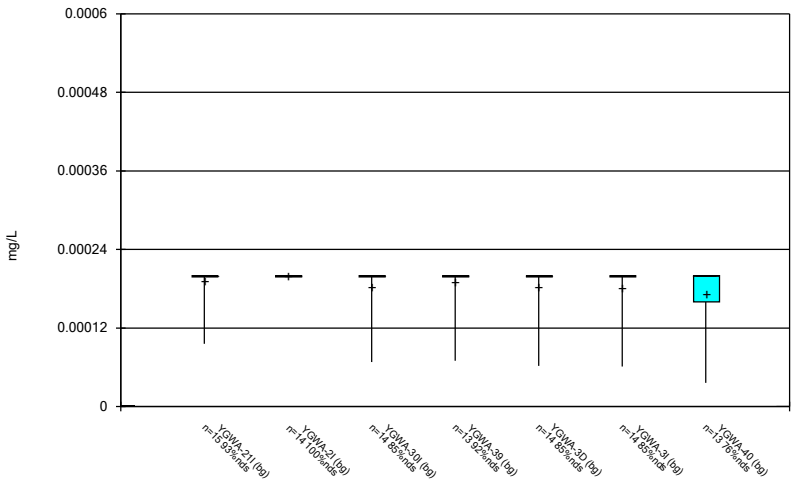
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

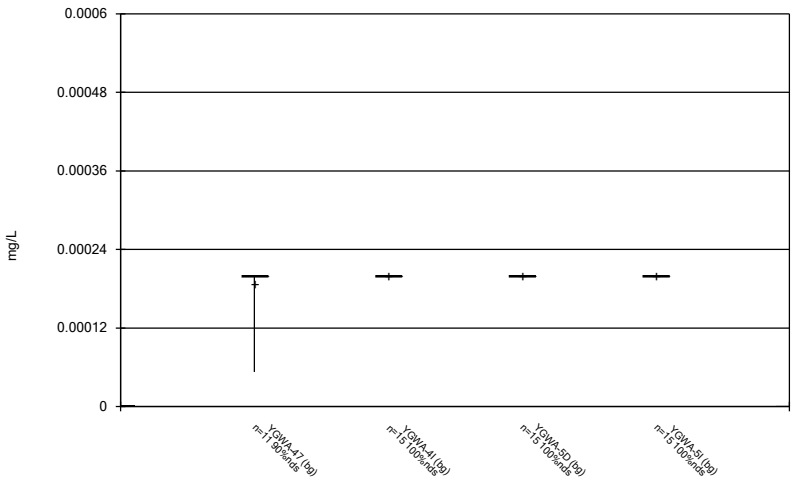
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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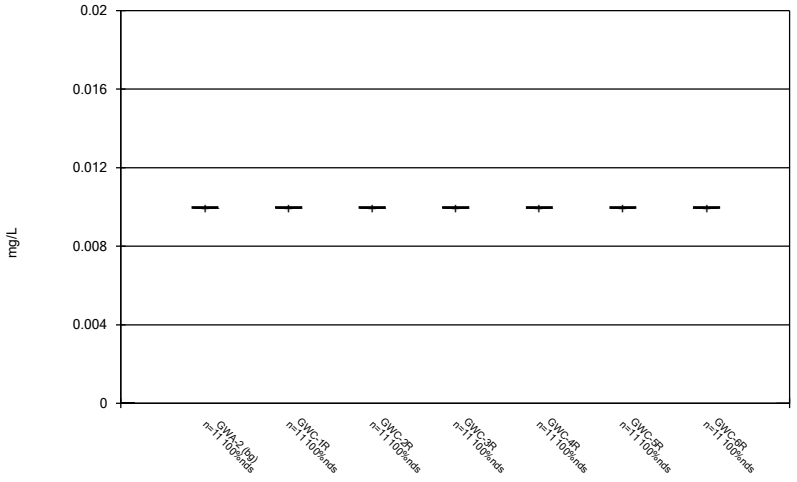
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

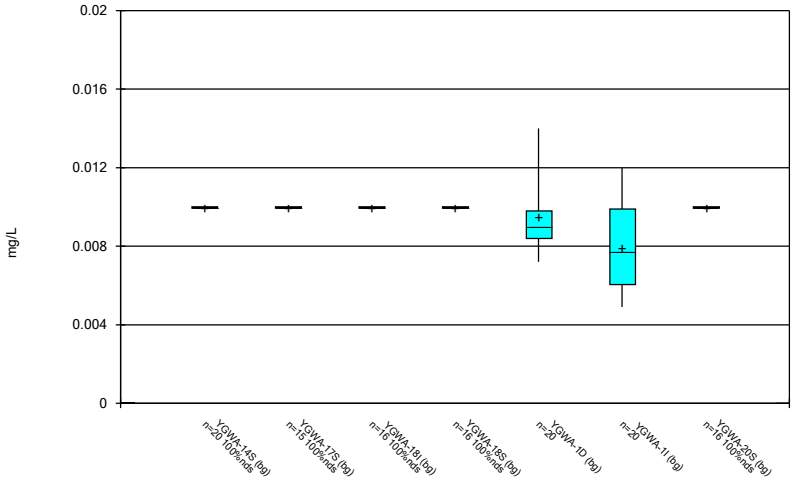
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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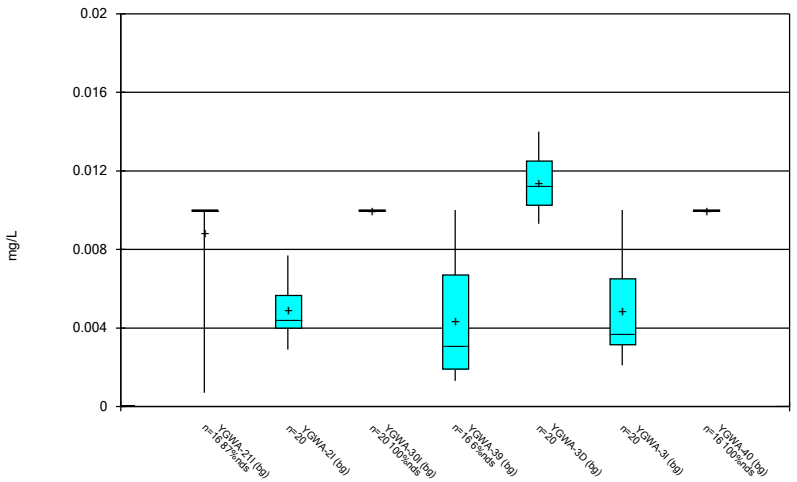
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

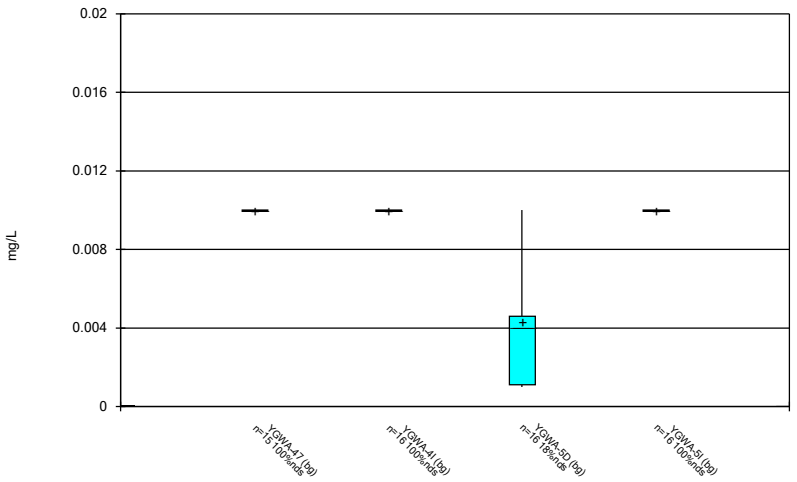
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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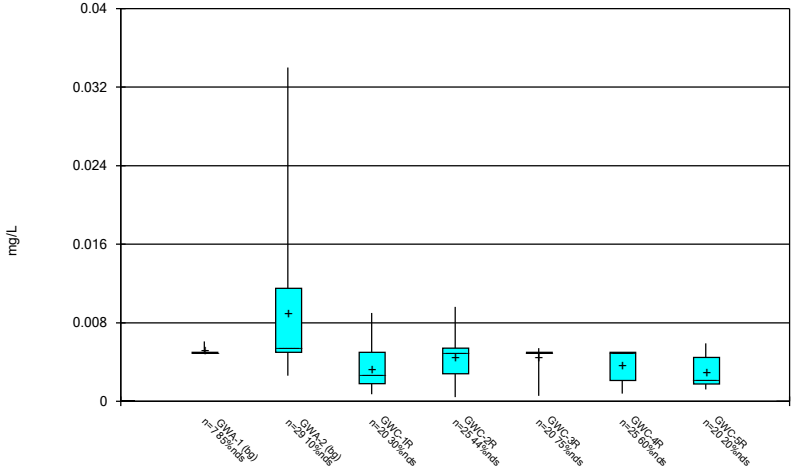
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

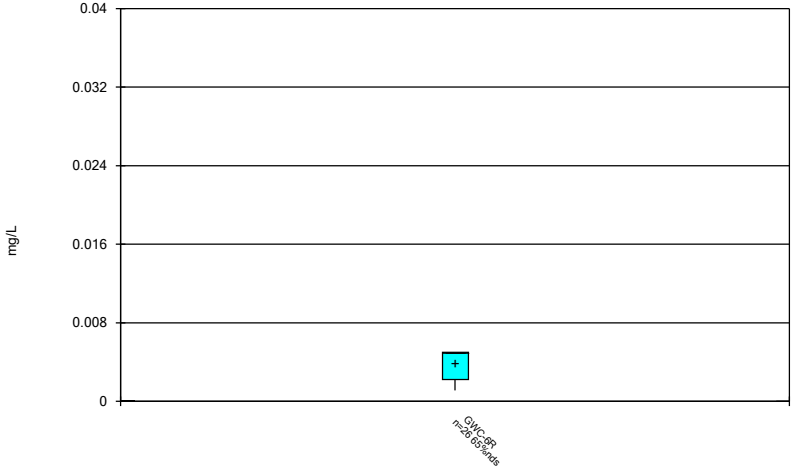
Box & Whiskers Plot



Constituent: Nickel Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

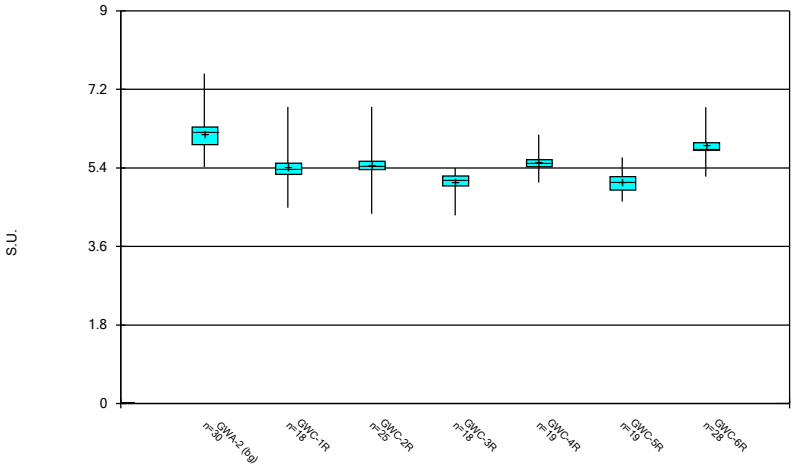
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Nickel Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

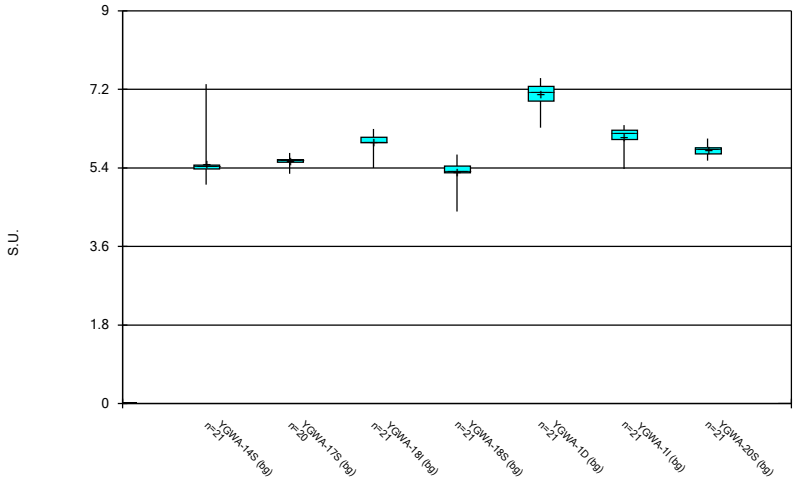
Box & Whiskers Plot



Constituent: pH Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

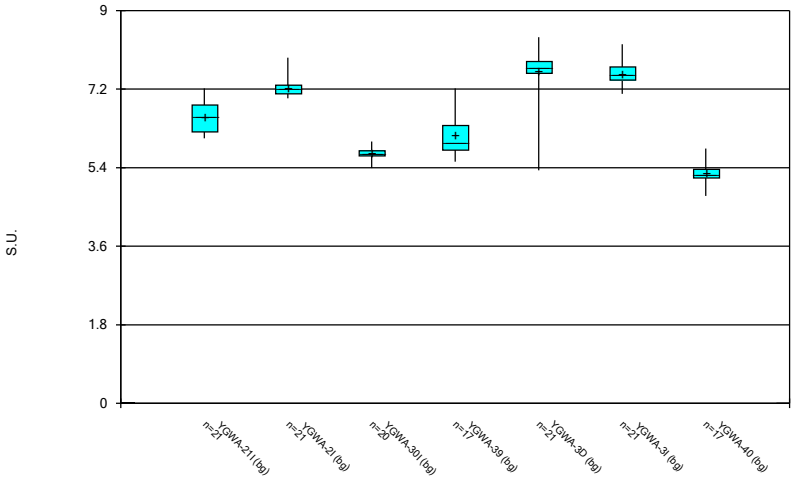
Box & Whiskers Plot



Constituent: pH Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

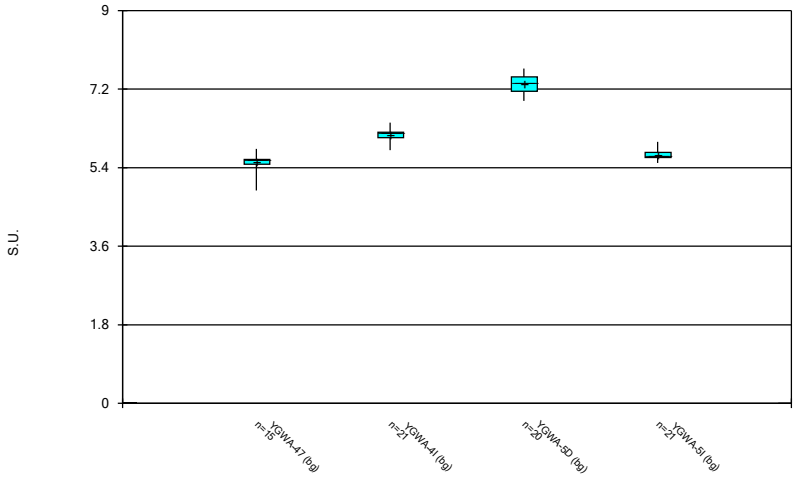
Box & Whiskers Plot



Constituent: pH Analysis Run 10/29/2021 3:39 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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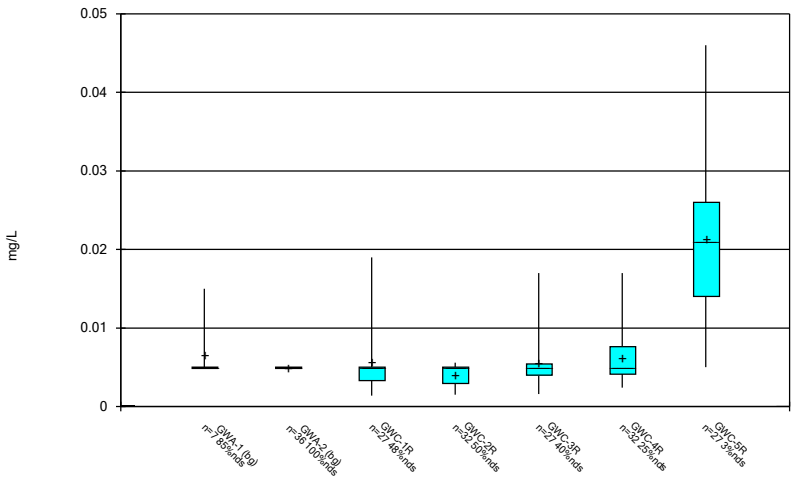
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

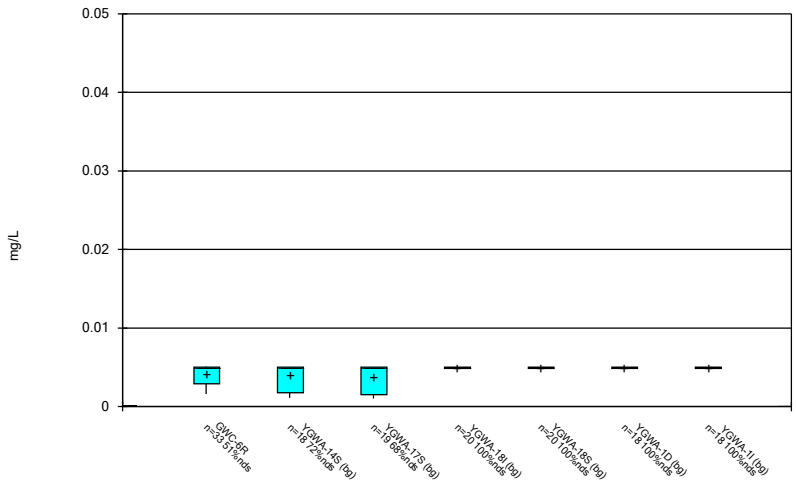
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

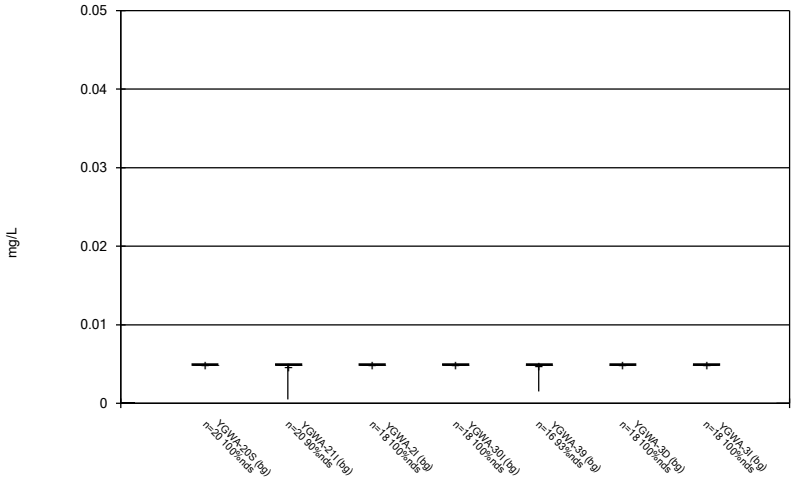
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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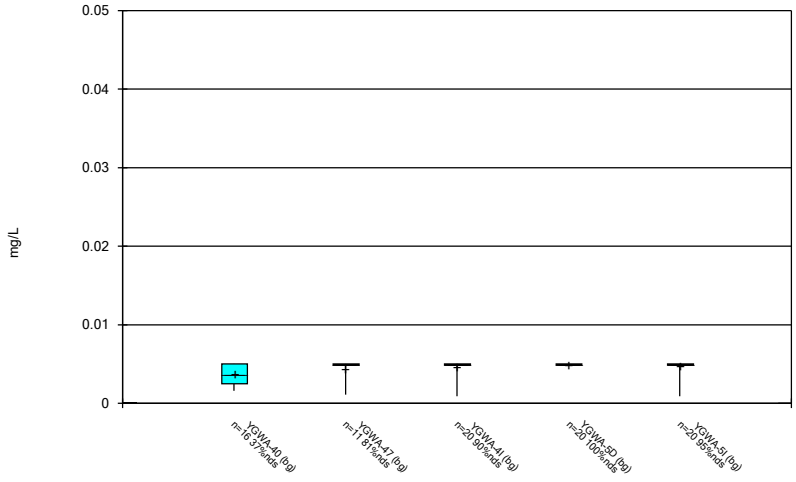
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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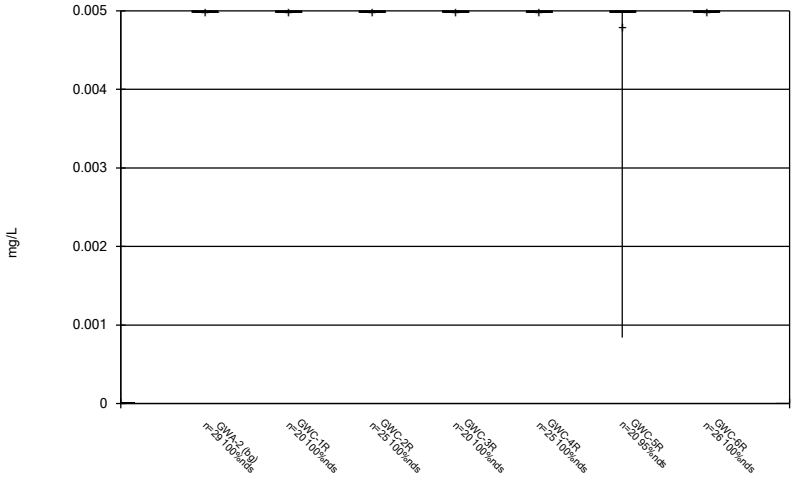
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

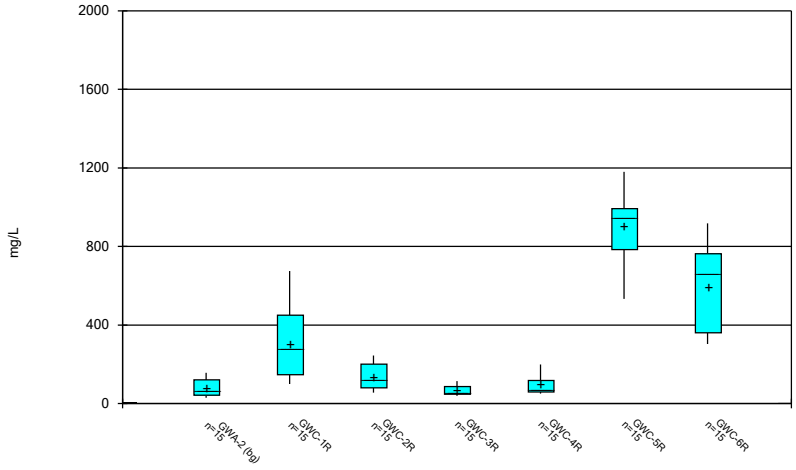
Box & Whiskers Plot



Constituent: Silver Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/29/2021 3:40 PM View: Descriptive
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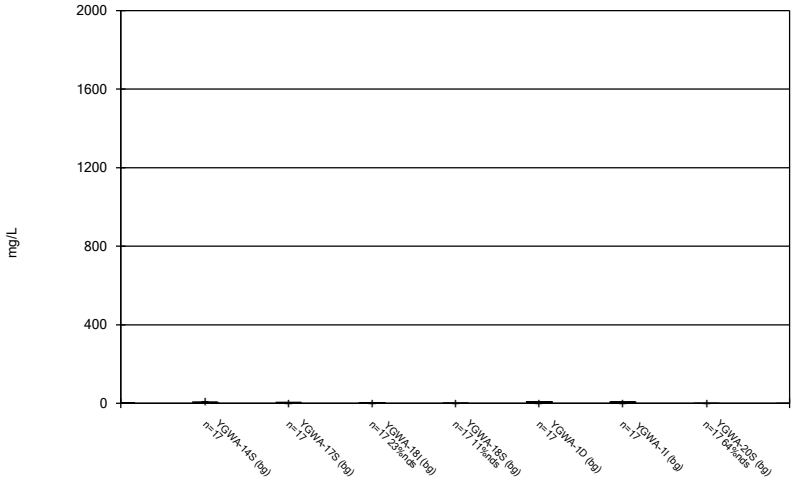
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

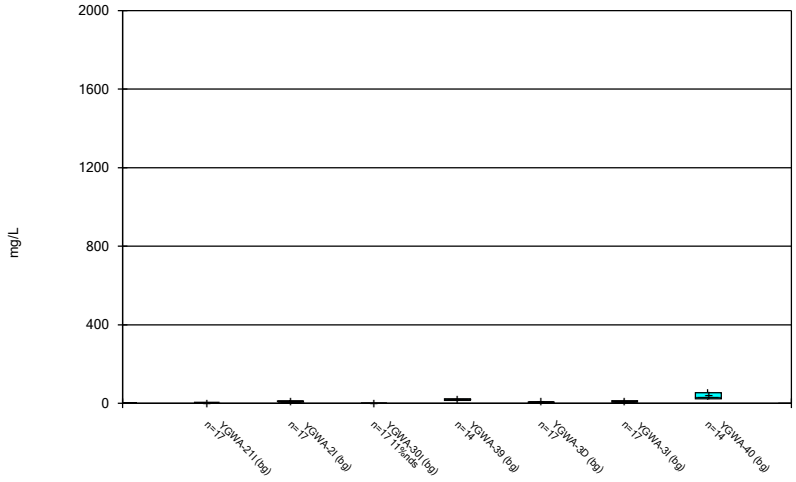
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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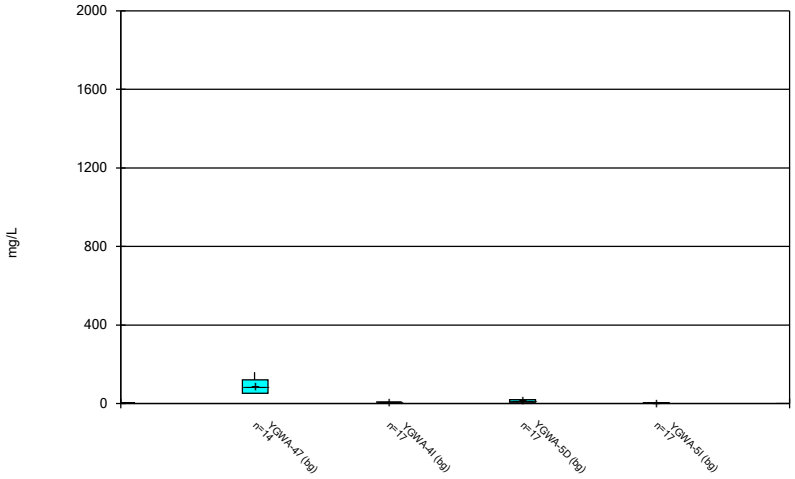
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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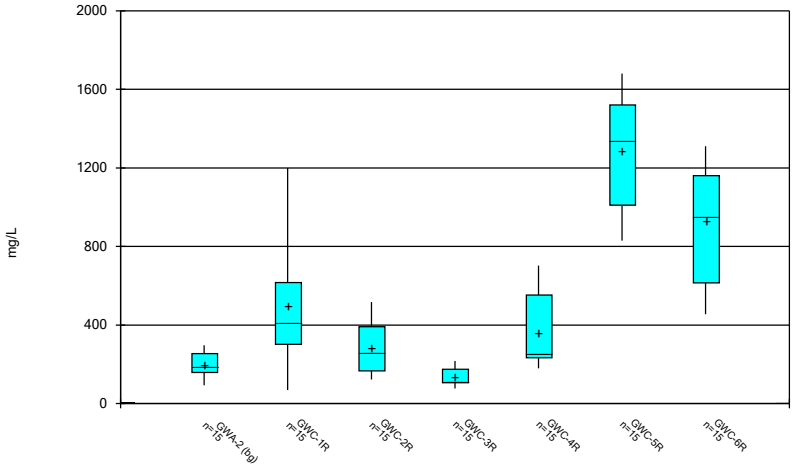
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: TDS Analysis Run 10/29/2021 3:40 PM View: Descriptive
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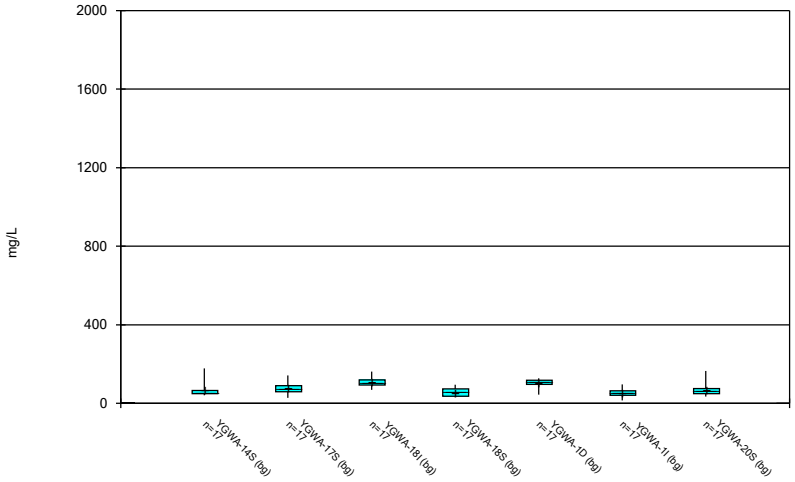
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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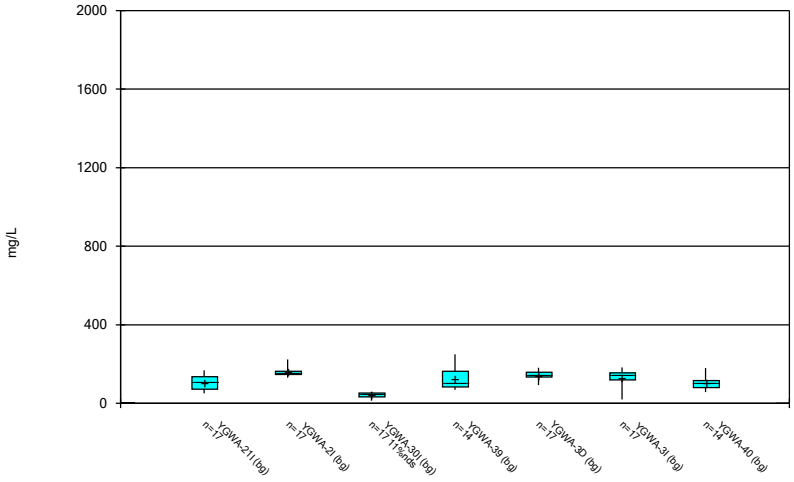
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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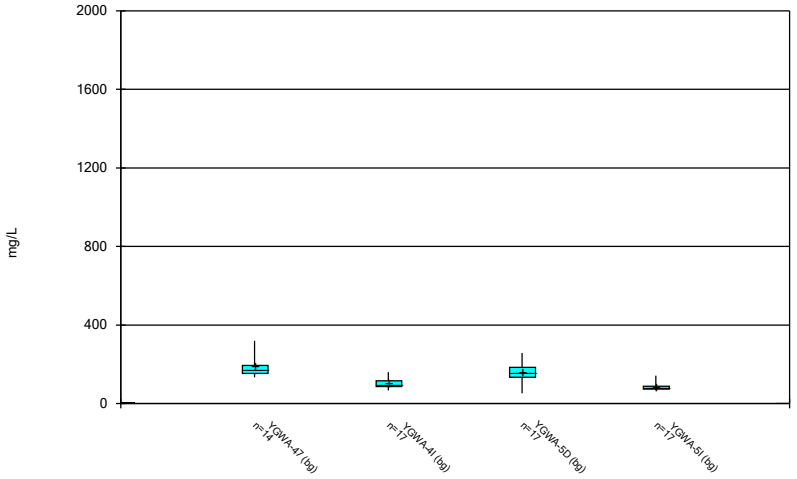
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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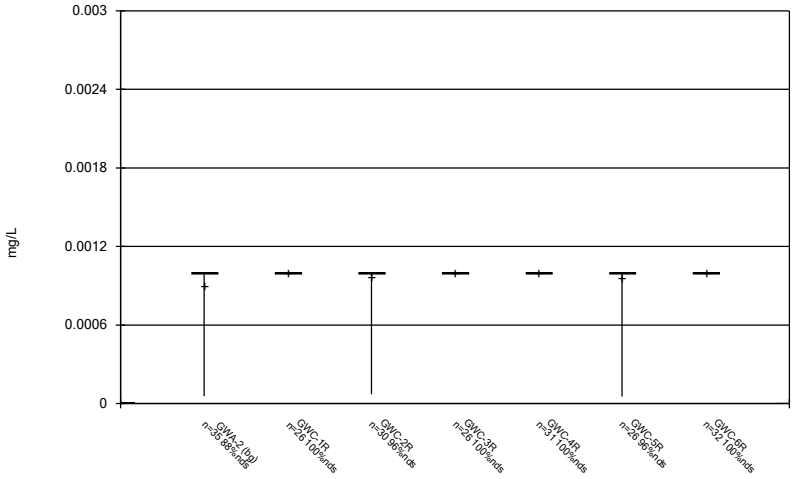
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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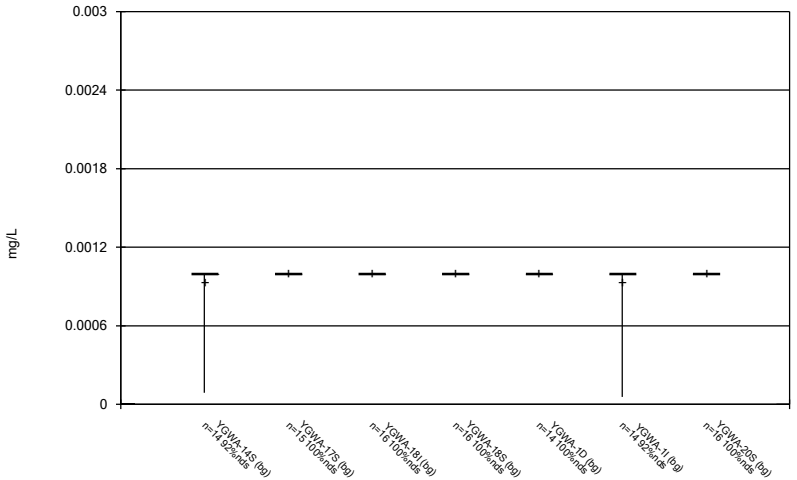
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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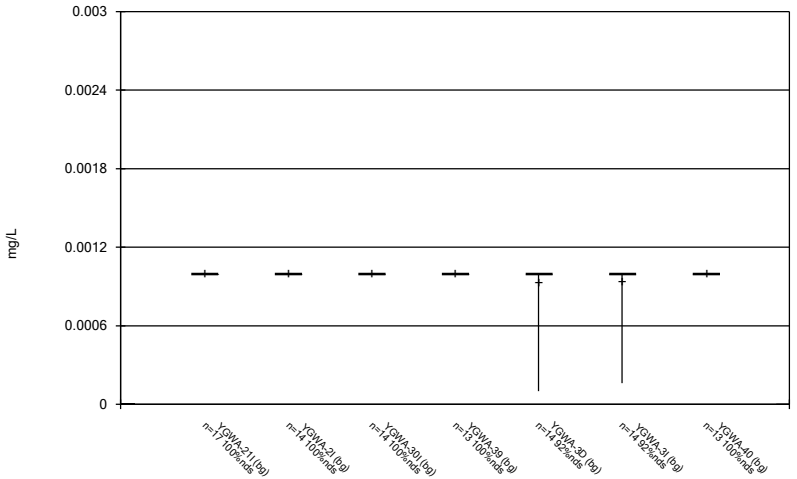
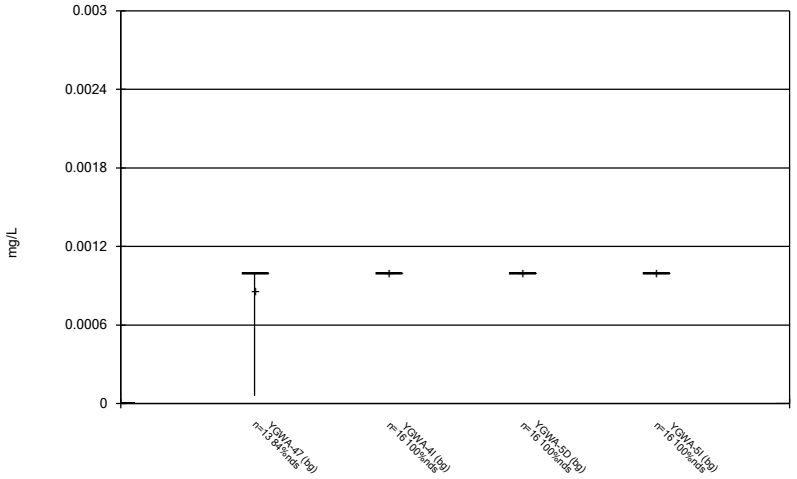
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

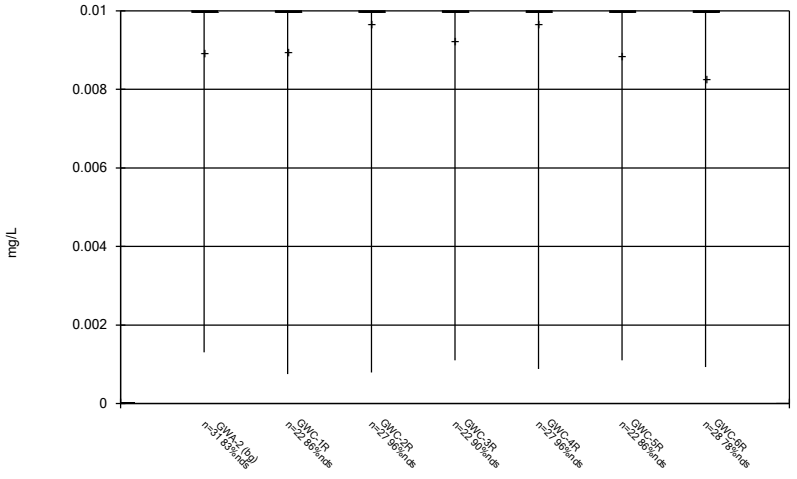
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

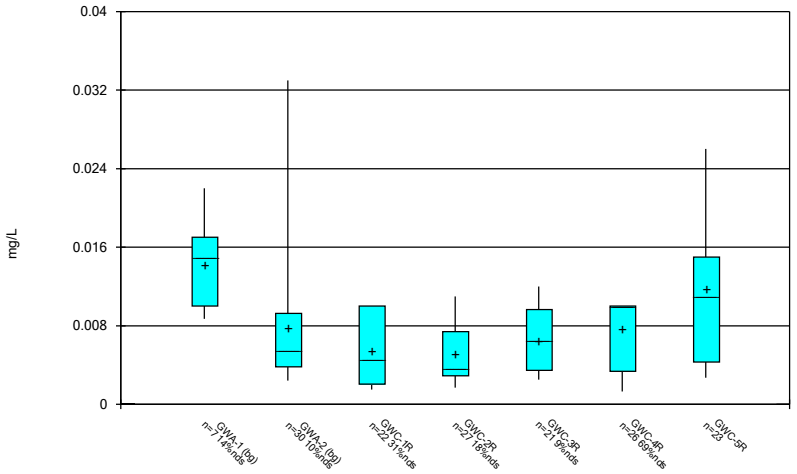
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

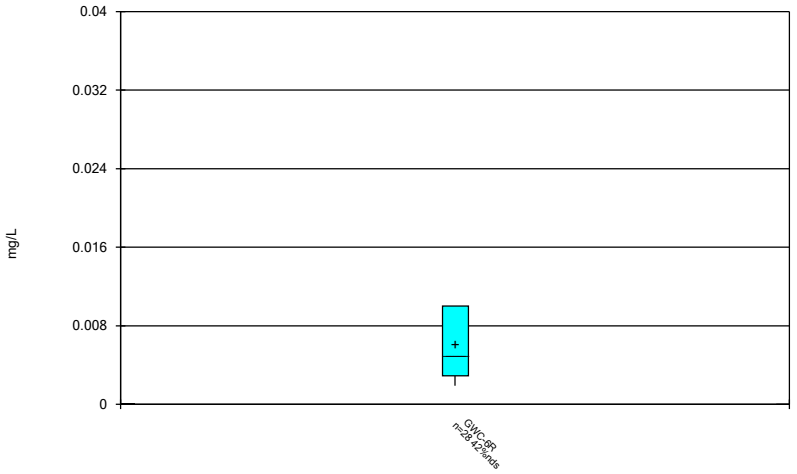
Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/29/2021 3:40 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 10:19 AM

	GWA-2 Cobalt (mg/L)	GWA-2 Zinc (mg/L)	GWC-3R Zinc (mg/L)	GWC-4R Zinc (mg/L)
3/11/2011				0.025 (o)
2/5/2014		0.018 (o)	0.026 (o)	
8/26/2020	0.2 (o)			
9/22/2020	0.16 (o)			
3/2/2021	0.21 (o)			
8/20/2021	0.074 (o)			

FIGURE D.

Appendix I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	**GWC-5R**	**0.003**	**n/a**	**8/18/2021**	**0.0033**	**Yes**	**18**	**n/a**	**n/a**	**38.89**	**n/a**	**n/a**	**0.005373**	**NP Intra (normality) 1 of 2**
Cobalt (mg/L)	**GWC-3R**	**0.005**	**n/a**	**8/18/2021**	**0.01**	**Yes**	**18**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	**GWC-1R**	**0.01**	**n/a**	**8/18/2021**	**0.019**	**Yes**	**18**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	**GWC-3R**	**0.01**	**n/a**	**8/18/2021**	**0.017**	**Yes**	**18**	**n/a**	**n/a**	**61.11**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Zinc (mg/L)	**GWA-2**	**0.009584**	**n/a**	**8/20/2021**	**0.014**	**Yes**	**23**	**0.004991**	**0.002**	**4.348**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	**GWC-5R**	**0.01798**	**n/a**	**8/18/2021**	**0.026**	**Yes**	**15**	**0.00738**	**0.004189**	**0**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/20/2021	0.003ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.003ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.0016J	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.0028J	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0021J	No	18	n/a	n/a	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	8/20/2021	0.036	No	27	0.05023	0.01305	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09203	n/a	8/18/2021	0.076	No	18	0.04614	0.01903	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/18/2021	0.033	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.1072	n/a	8/18/2021	0.014	No	18	0.1832	0.05976	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.0778	n/a	8/18/2021	0.04	No	19	0.1732	0.04443	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.06311	n/a	8/18/2021	0.013	No	14	0.03304	0.01162	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-6R	0.1025	n/a	8/18/2021	0.035	No	24	0.04776	0.02401	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/18/2021	0.0003J	No	18	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.00022J	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/18/2021	0.0011	No	18	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.00011J	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	**GWC-5R**	**0.003**	**n/a**	**8/18/2021**	**0.0033**	**Yes**	**18**	**n/a**	**n/a**	**38.89**	**n/a**	**n/a**	**0.005373**	**NP Intra (normality) 1 of 2**
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/18/2021	0.00017J	No	18	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0025	n/a	8/18/2021	0.00016J	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/18/2021	0.00022J	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/18/2021	0.0005ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001	No	18	n/a	n/a	44.44	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.0015J	No	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	82.61	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.0023J	No	18	n/a	n/a	27.78	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0015J	No	24	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003J	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.008717	n/a	8/18/2021	0.0014J	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-2R	0.04742	n/a	8/18/2021	0.00066J	No	23	0.02477	0.009863	4.348	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	**GWC-3R**	**0.005**	**n/a**	**8/18/2021**	**0.01**	**Yes**	**18**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Cobalt (mg/L)	GWC-4R	0.007137	n/a	8/18/2021	0.0027J	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00053J	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	8/20/2021	0.0012J	No	22	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.00067J	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0022J	No	13	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.00083J	No	19	n/a	n/a	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	27	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limits - All Results

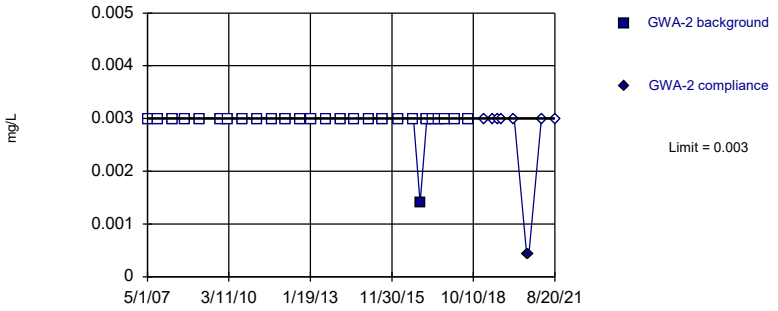
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/20/2021	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/18/2021	0.0002ND	No	24	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.021	n/a	8/20/2021	0.014	No	22	n/a	n/a	13.64	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.01331	n/a	8/18/2021	0.0028J	No	13	-6.05	0.655	38.46	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.01015	n/a	8/18/2021	0.005ND	No	18	0.003546	0.00274	44.44	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.0026J	No	18	n/a	n/a	77.78	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.005956	n/a	8/18/2021	0.0016J	No	13	0.002281	0.00139	30.77	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.0012J	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.01**	**n/a**	**8/18/2021**	**0.019**	**Yes**	**18**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.0042J	No	23	n/a	n/a	69.57	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-3R**	**0.01**	**n/a**	**8/18/2021**	**0.017**	**Yes**	**18**	**n/a**	**n/a**	**61.11**	**n/a**	**n/a**	**0.005373**	**NP Intra (NDs) 1 of 2**
Selenium (mg/L)	GWC-4R	0.01548	n/a	8/18/2021	0.0046J	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04273	n/a	8/18/2021	0.017	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0016J	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Silver (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00084J	No	13	n/a	n/a	100	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	21	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/20/2021	0.01ND	No	24	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	76.19	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Zinc (mg/L)	**GWA-2**	**0.009584**	**n/a**	**8/20/2021**	**0.014**	**Yes**	**23**	**0.004991**	**0.002**	**4.348**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	GWC-1R	0.007102	n/a	8/18/2021	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-2R	0.01249	n/a	8/18/2021	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01462	n/a	8/18/2021	0.011	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	**GWC-5R**	**0.01798**	**n/a**	**8/18/2021**	**0.026**	**Yes**	**15**	**0.00738**	**0.004189**	**0**	**None**	**No**	**0.0005852**	**Param Intra 1 of 2**
Zinc (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



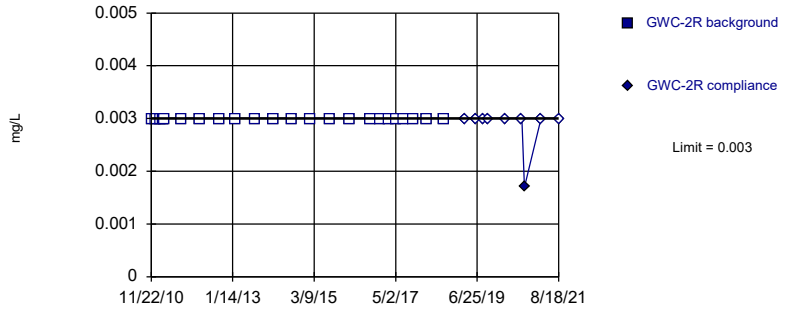
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



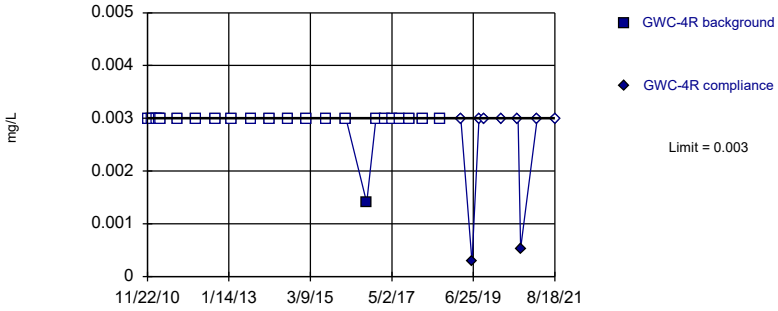
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



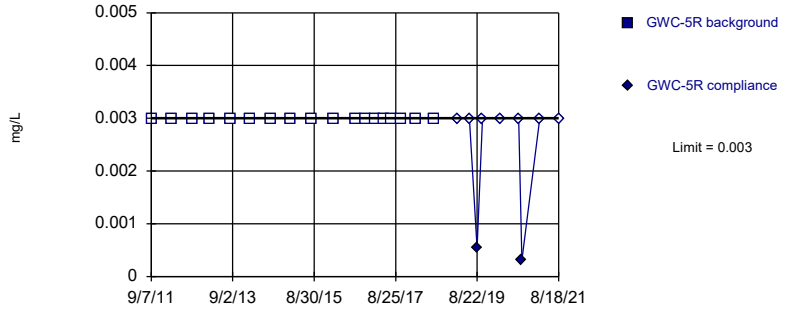
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

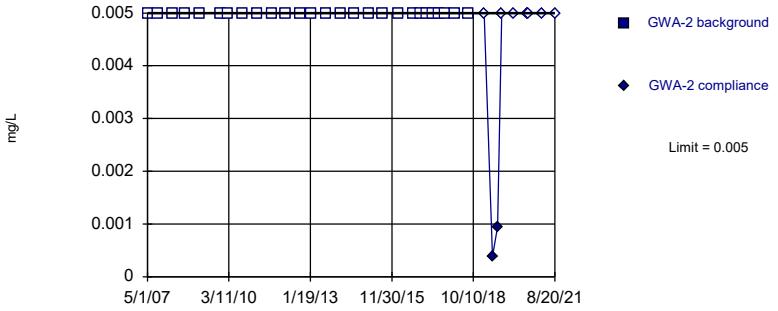
Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

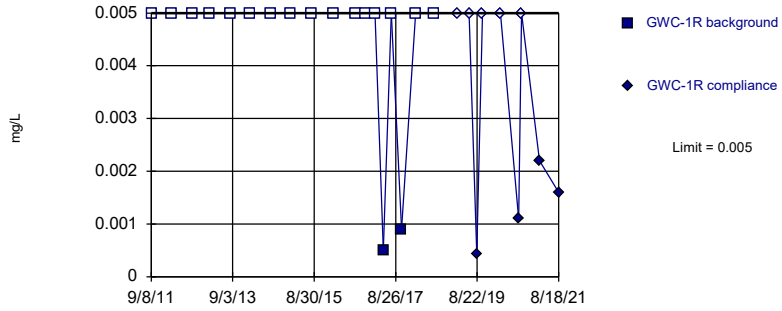
Constituent: Arsenic Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

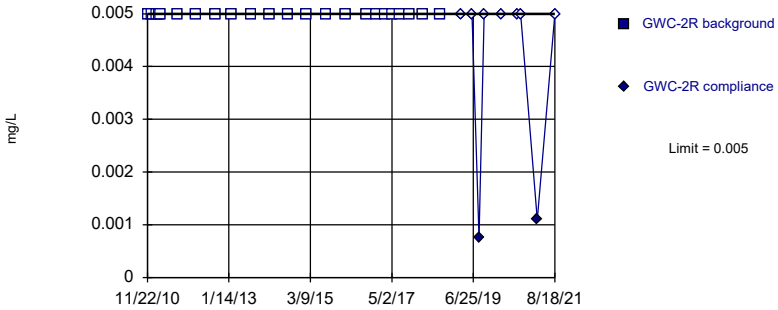
Constituent: Arsenic Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

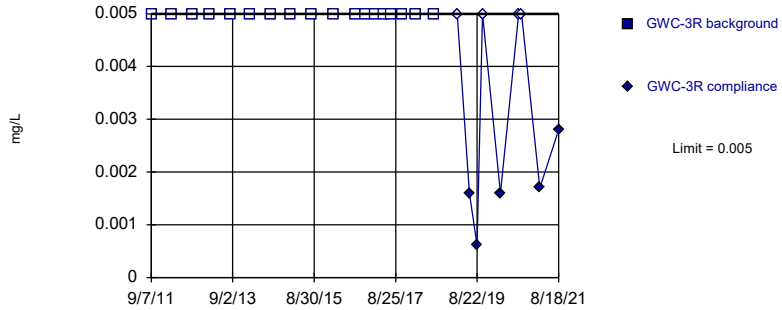
Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

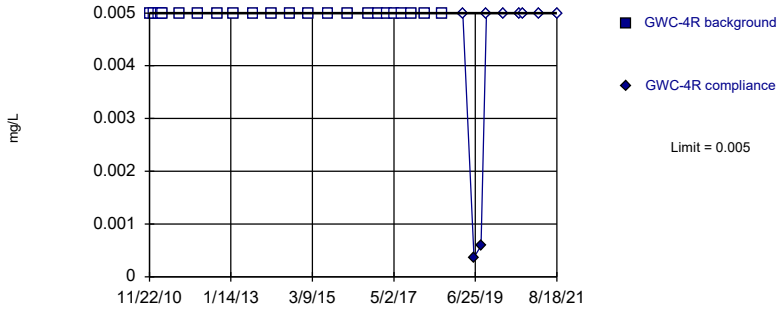
Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

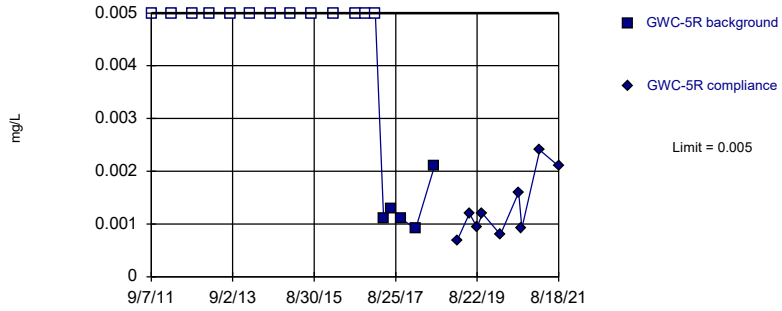
Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

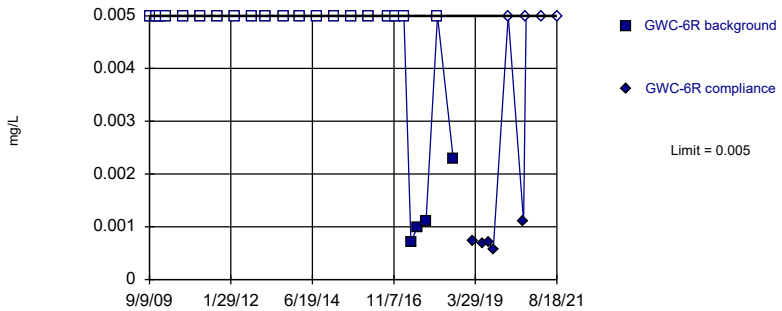
Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

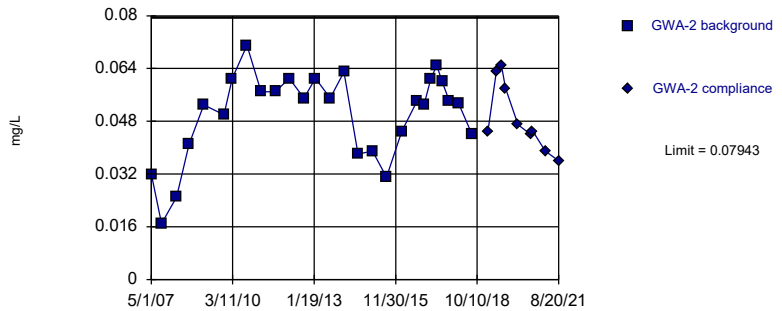
Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



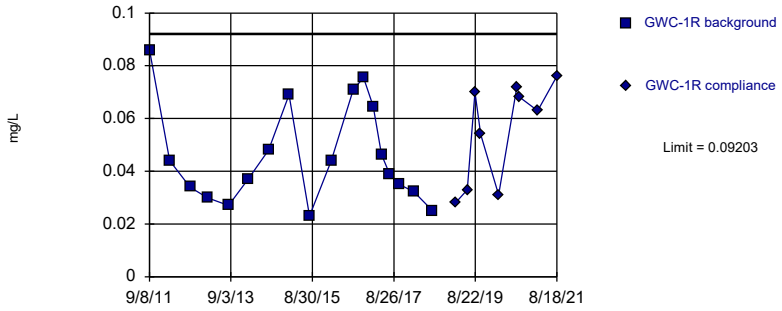
Background Data Summary: Mean=0.05023, Std. Dev.=0.01305, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.924, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04614, Std. Dev.=0.01903, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

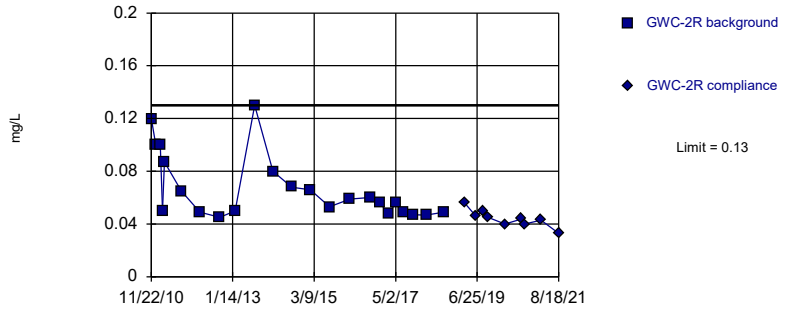
Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

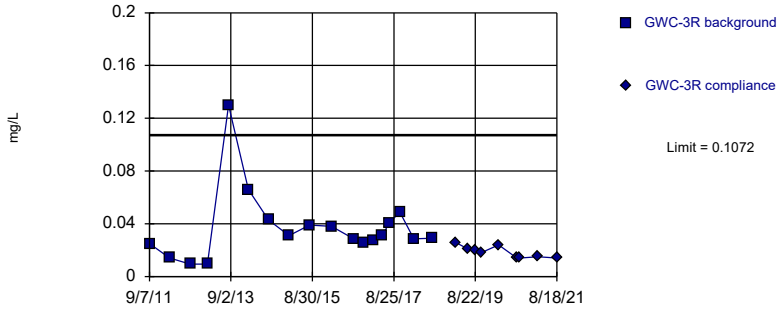
Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1832, Std. Dev.=0.05976, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

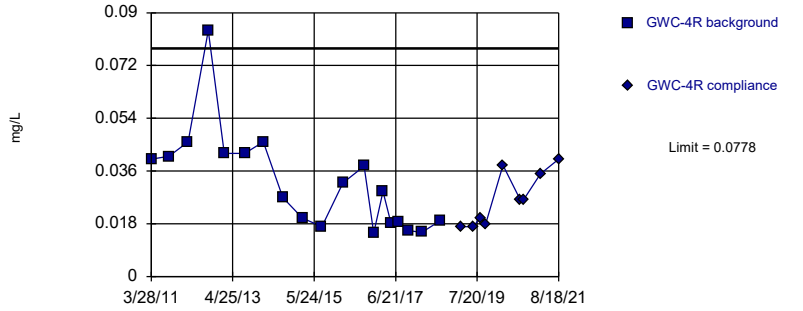
Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



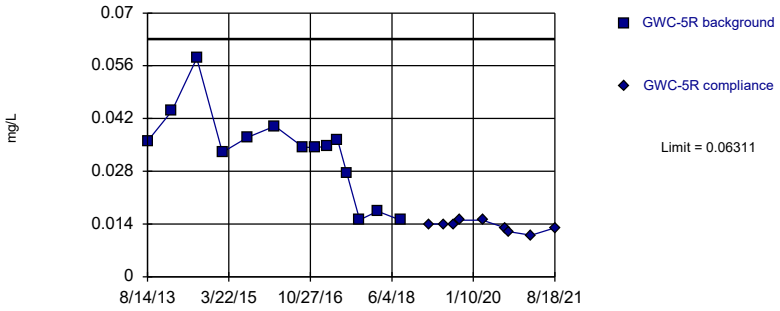
Background Data Summary (based on square root transformation): Mean=0.1732, Std. Dev.=0.04443, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.863. Kappa = 2.381 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.03304, Std. Dev.=0.01162, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.911, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

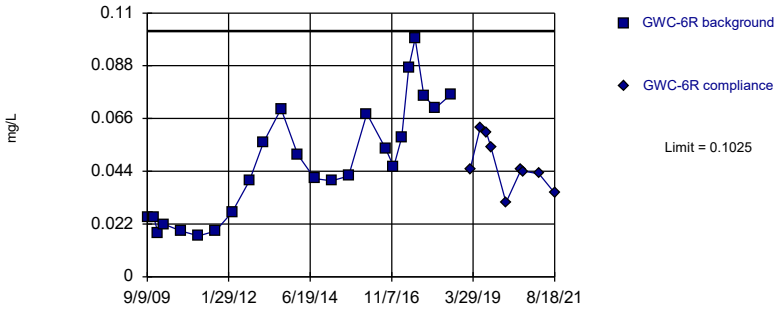
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04776, Std. Dev.=0.02401, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.884. Kappa = 2.278 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

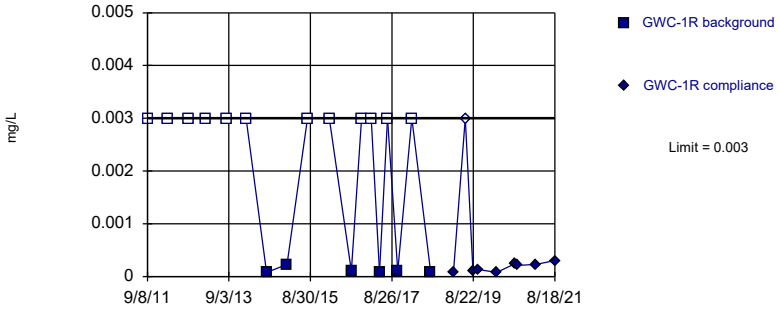
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

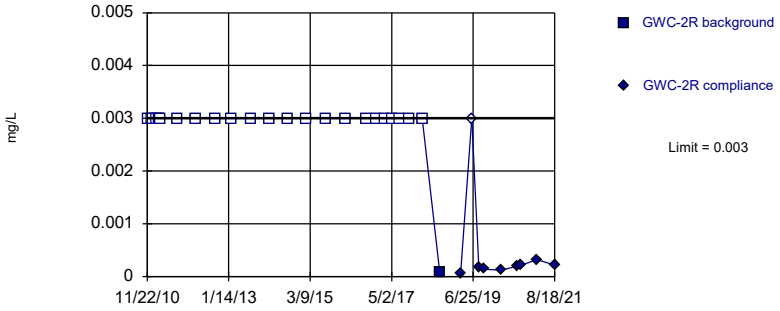
Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

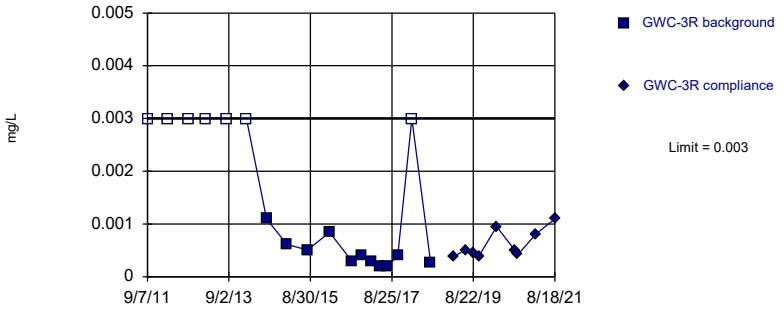
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

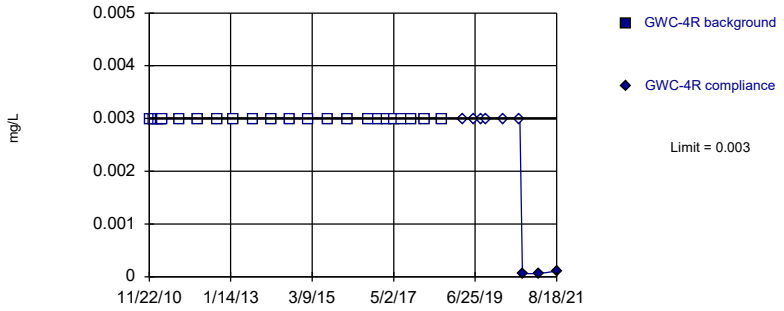
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

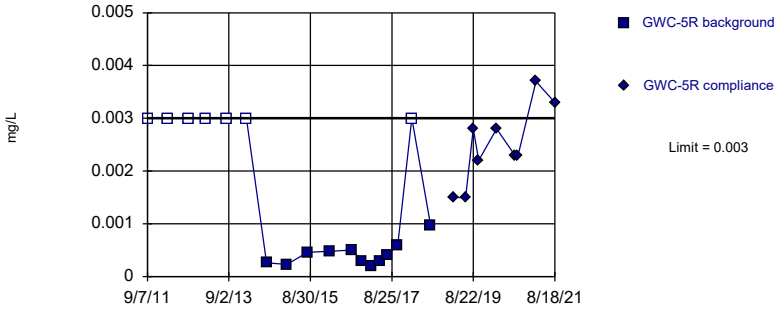
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

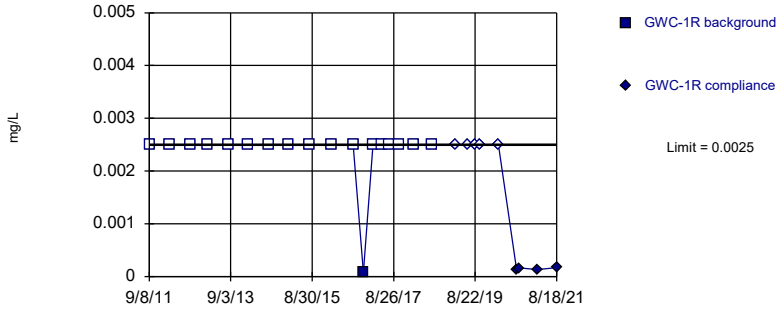
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

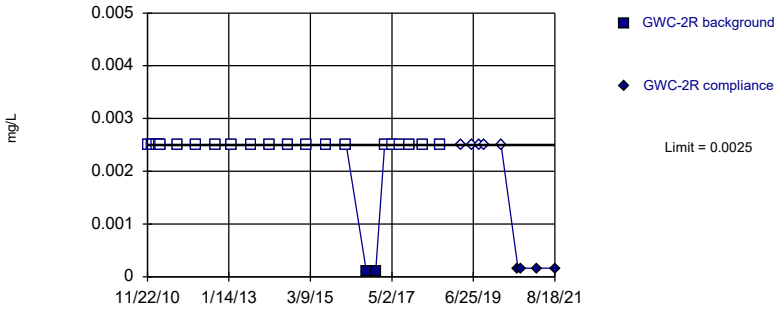
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

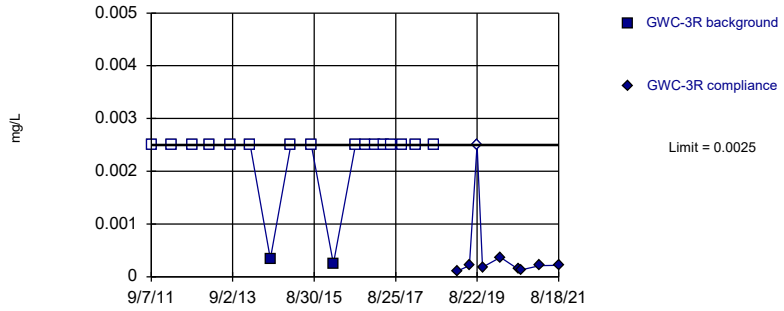
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

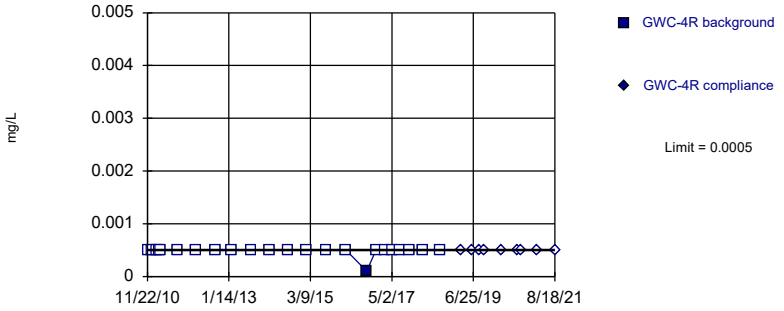
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

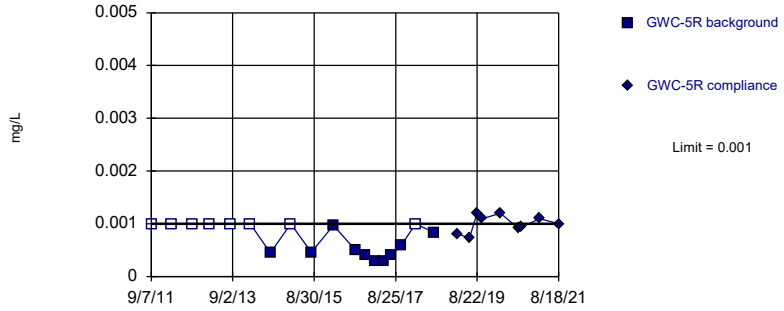
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II

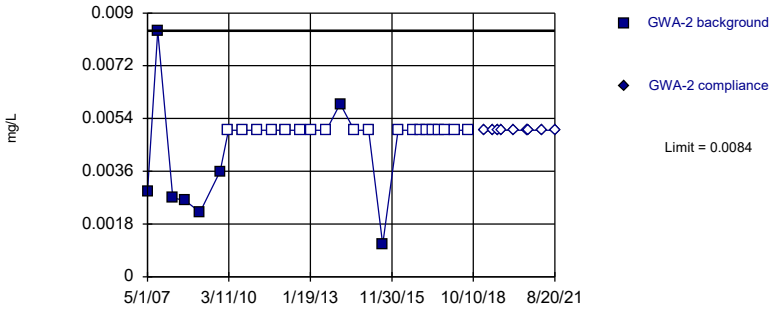
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

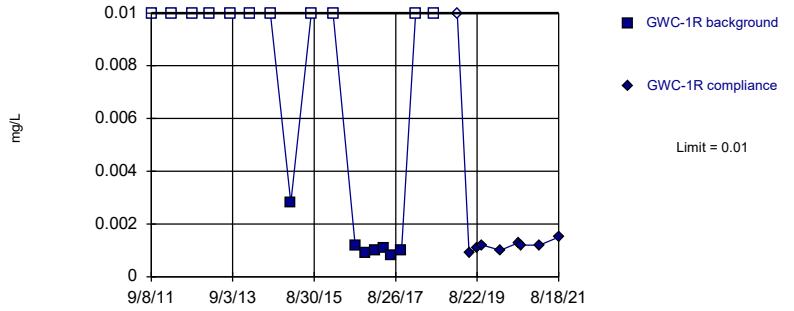
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

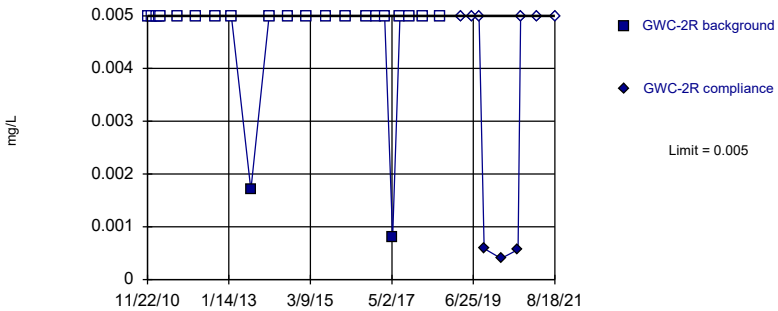
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

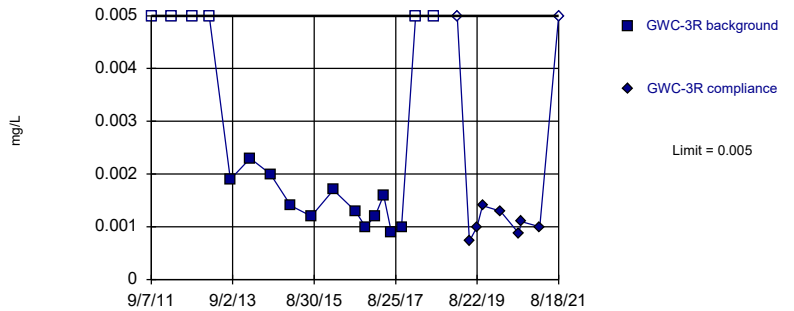
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

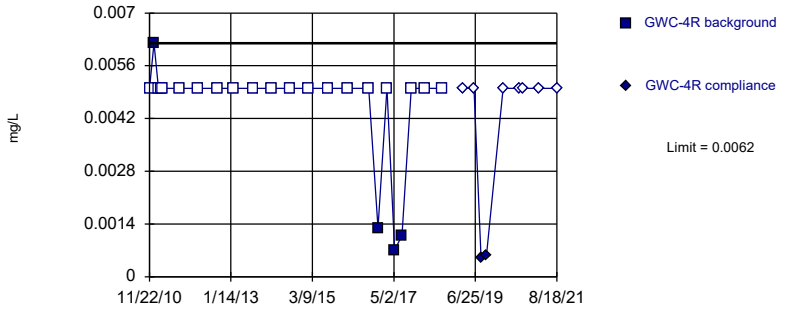
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

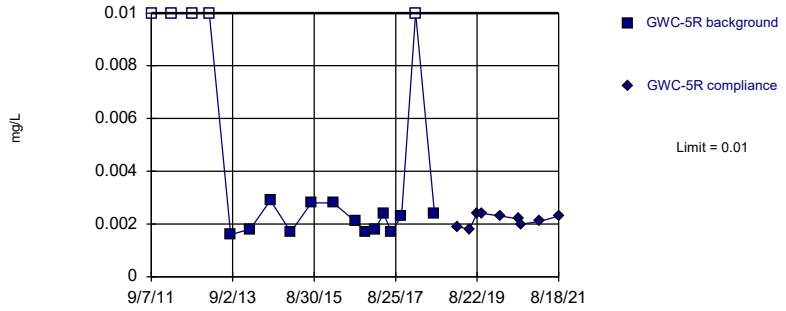
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 27.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

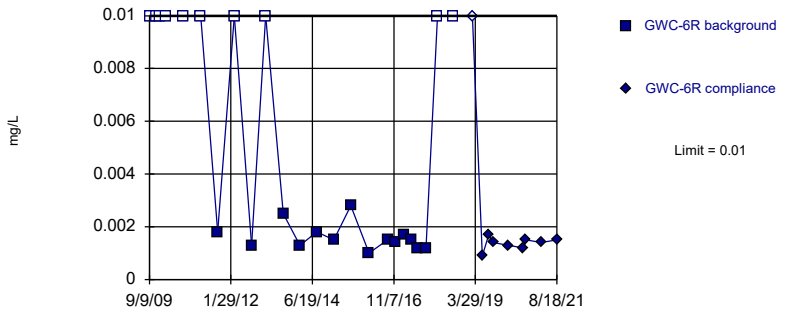
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

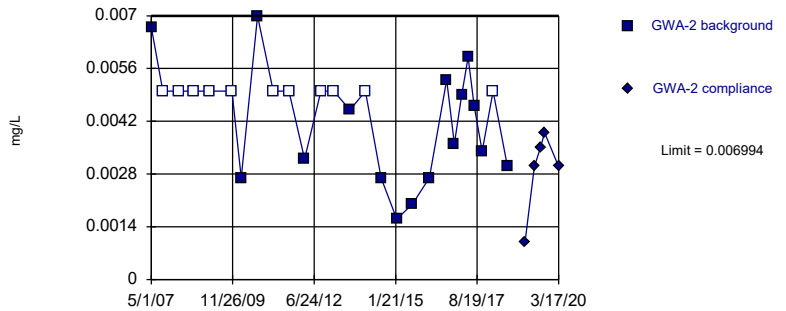
Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003556, Std. Dev.=0.001537, n=27, 40.74% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

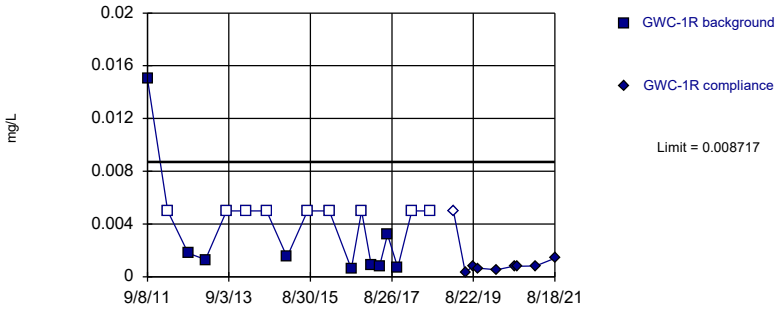
Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.613, Std. Dev.=0.7756, n=18, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8602, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

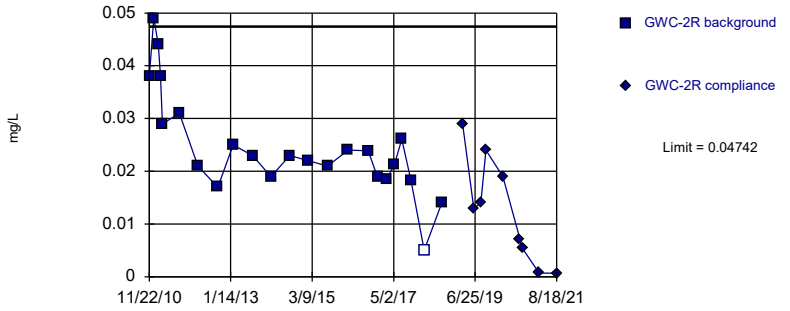
Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02477, Std. Dev.=0.009863, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

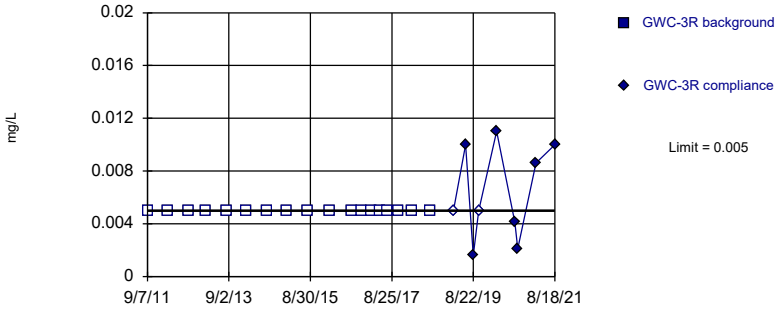
Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

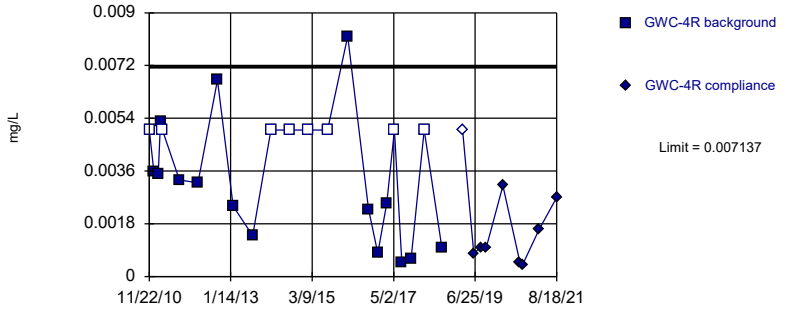
Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



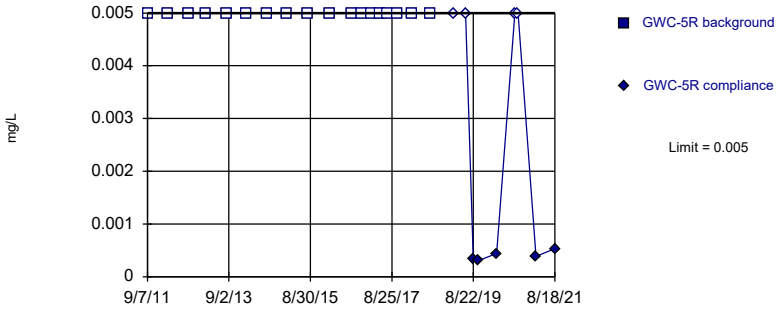
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002697, Std. Dev.=0.001934, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



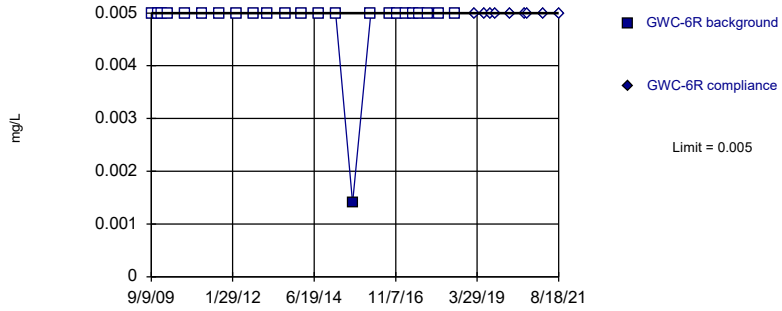
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



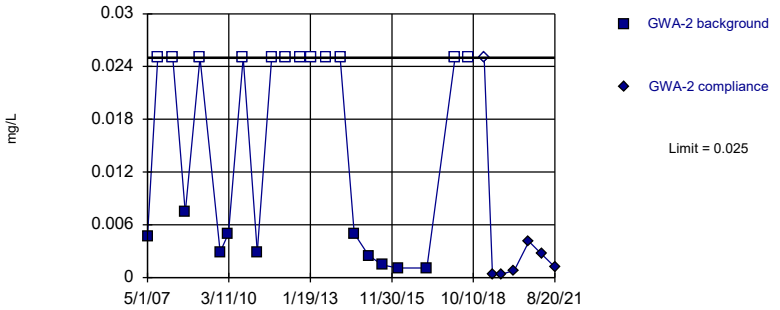
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



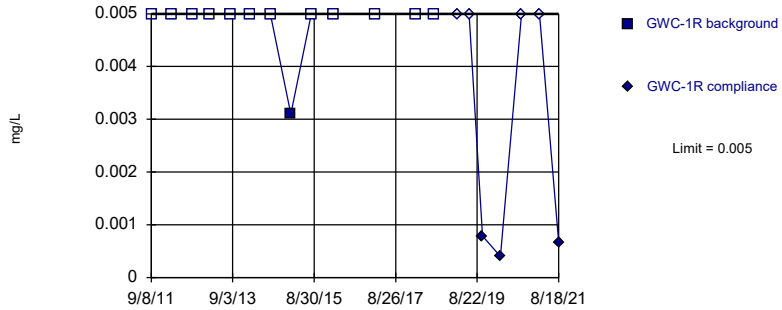
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

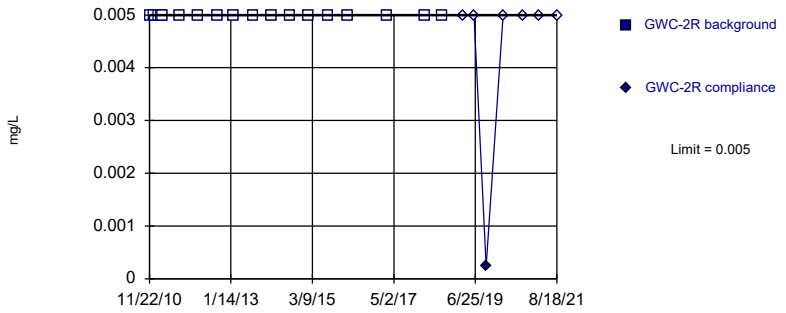
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

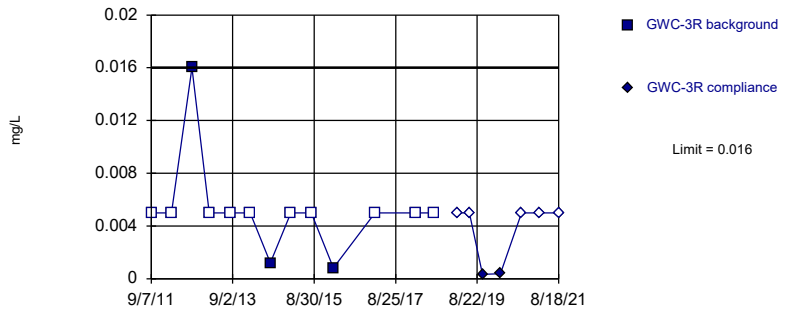
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

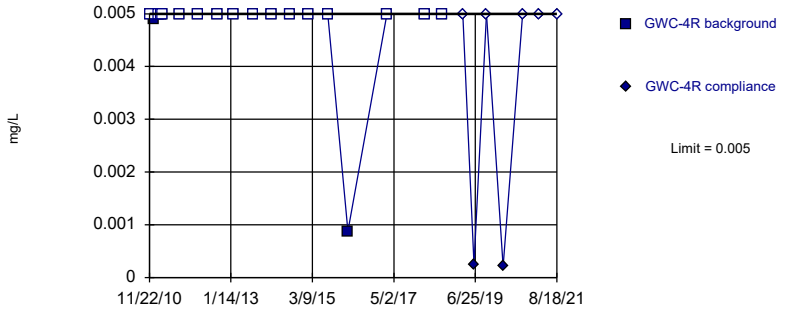
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

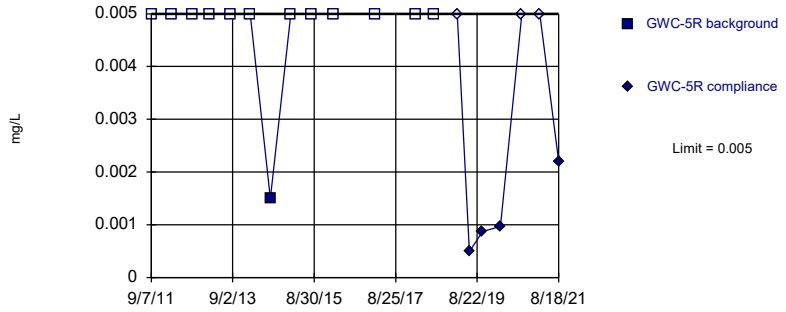
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

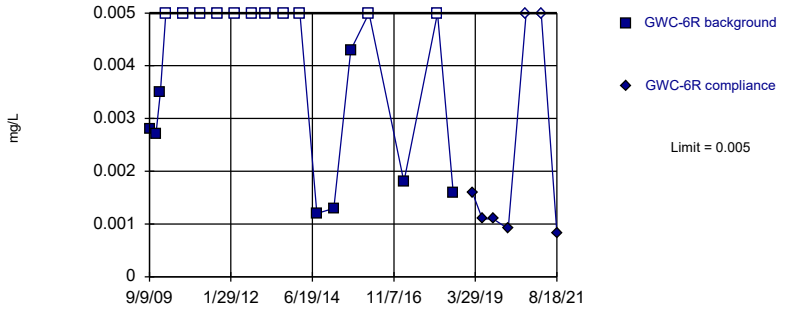
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

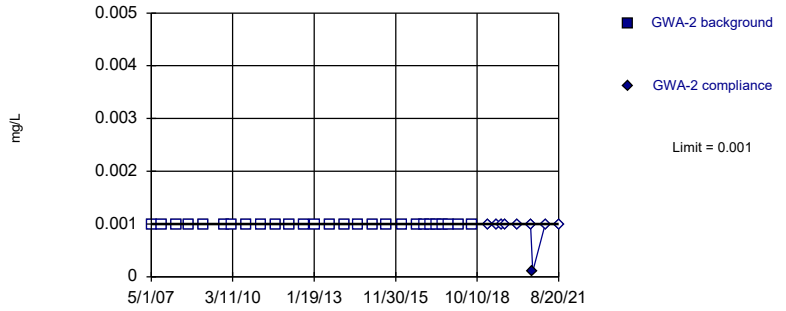
Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

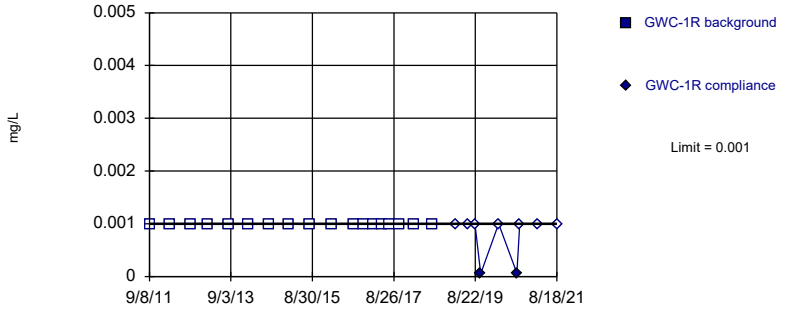
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

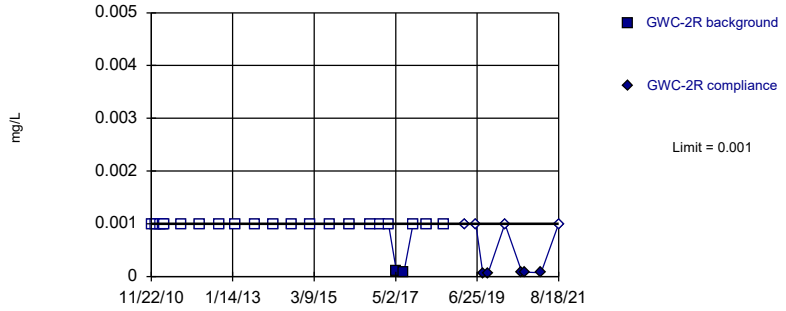
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

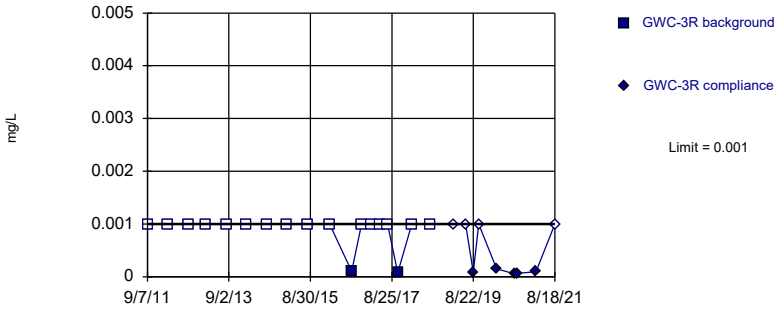
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

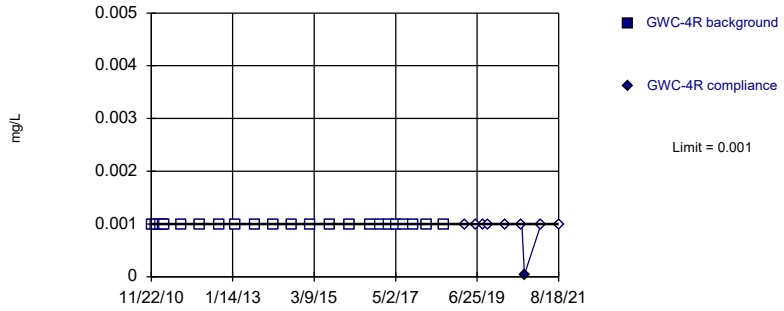
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

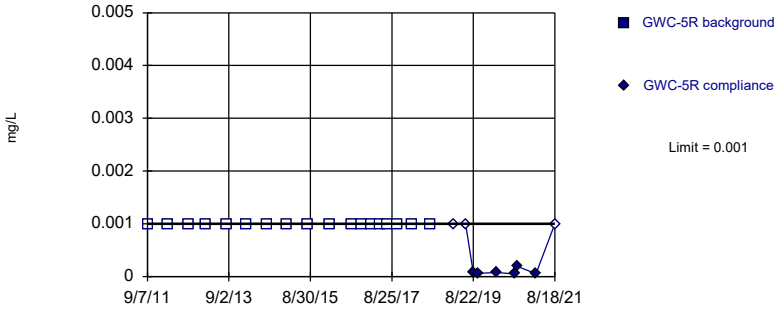
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

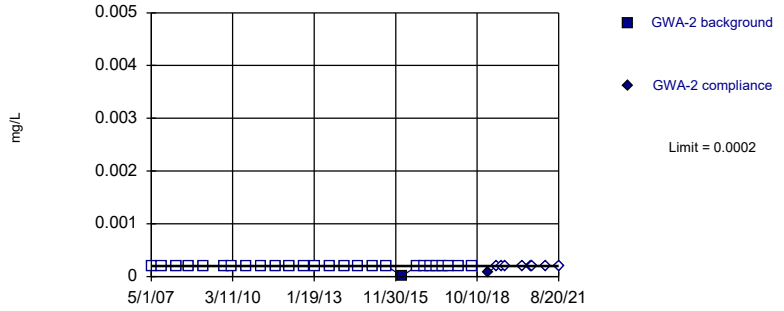
Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

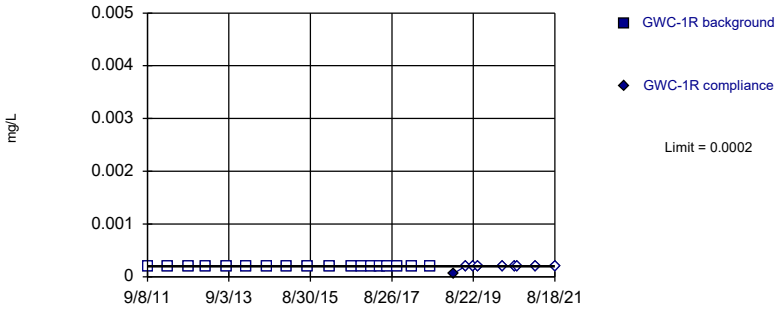
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

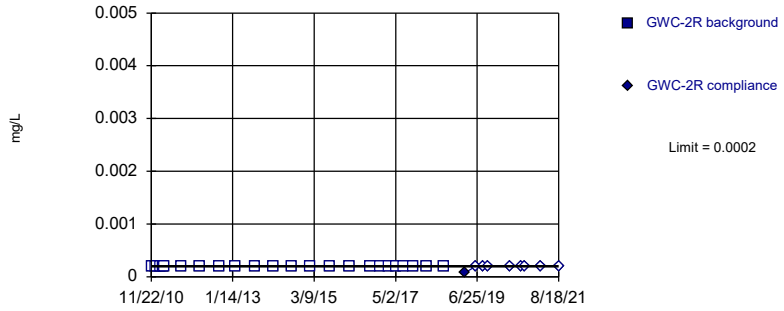
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

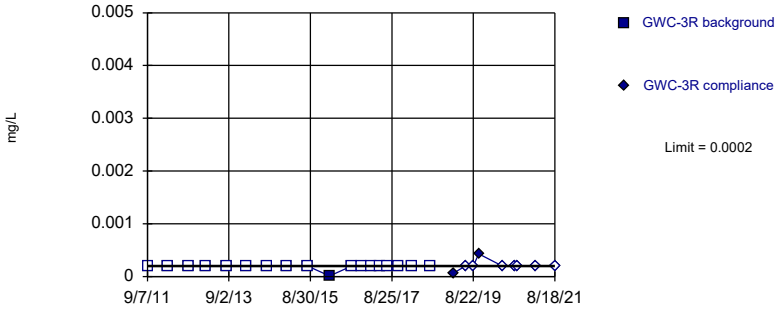
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

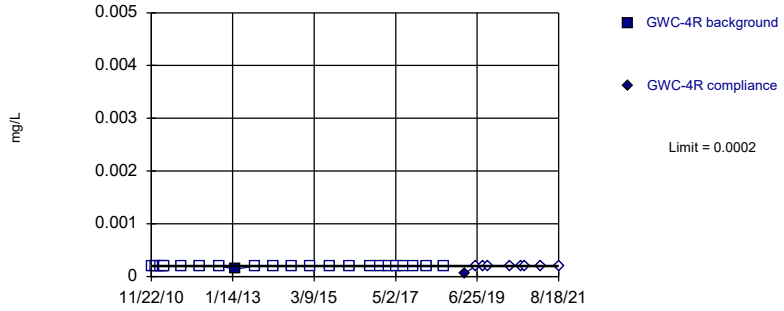
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

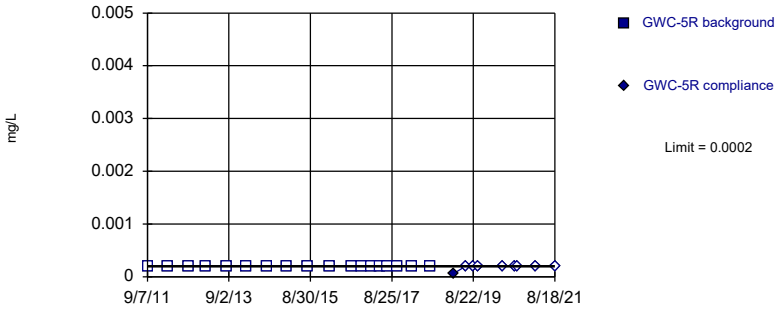
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

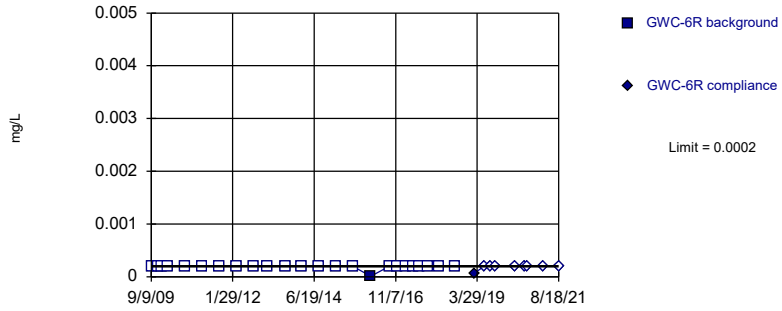
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

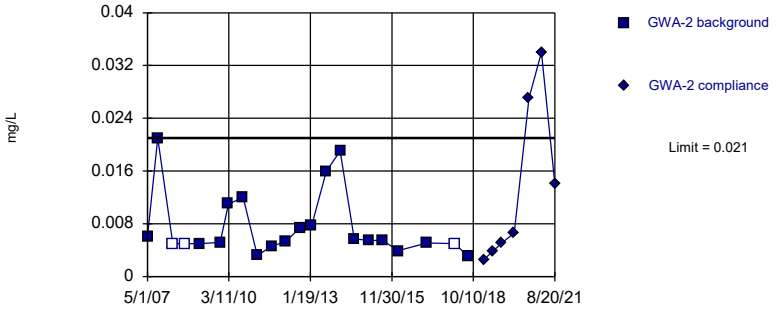
Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 13.64% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

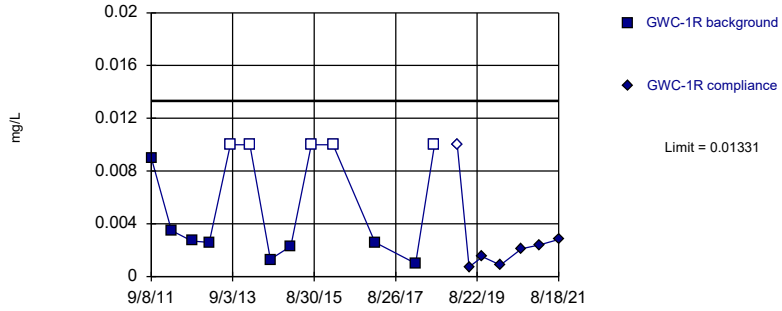
Constituent: Nickel Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.05, Std. Dev.=0.655, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8323, critical = 0.814. Kappa = 2.643 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

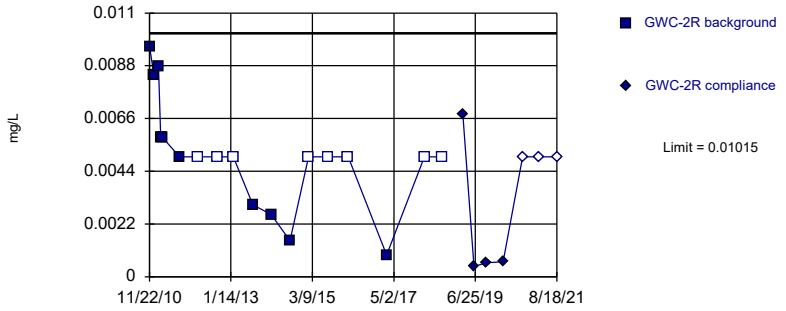
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003546, Std. Dev.=0.00274, n=18, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8887, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

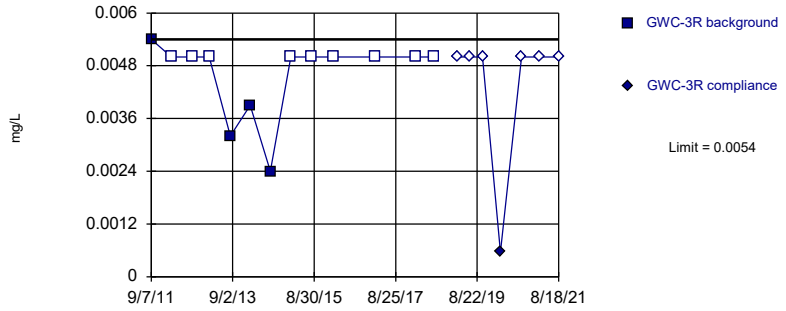
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

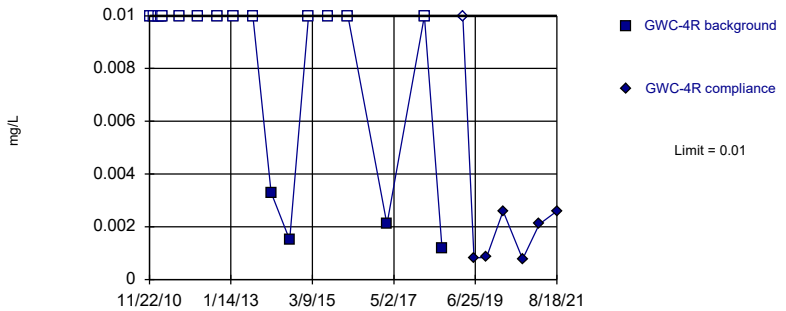
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

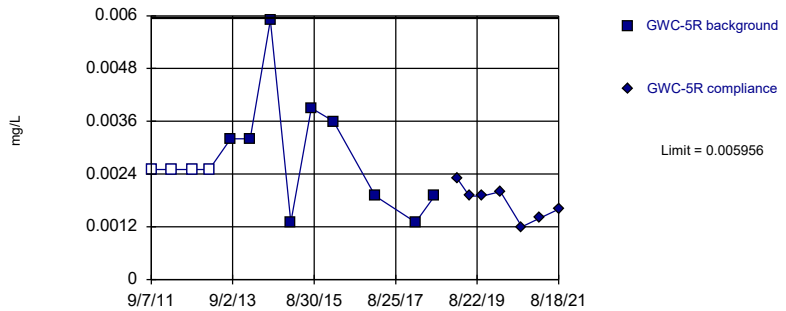
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002281, Std. Dev.=0.00139, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8933, critical = 0.814. Kappa = 2.643 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

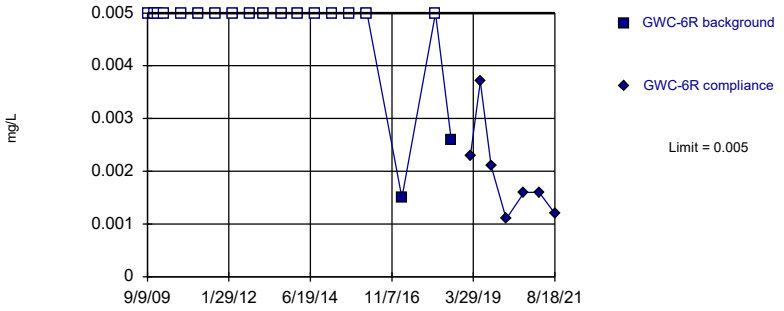
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

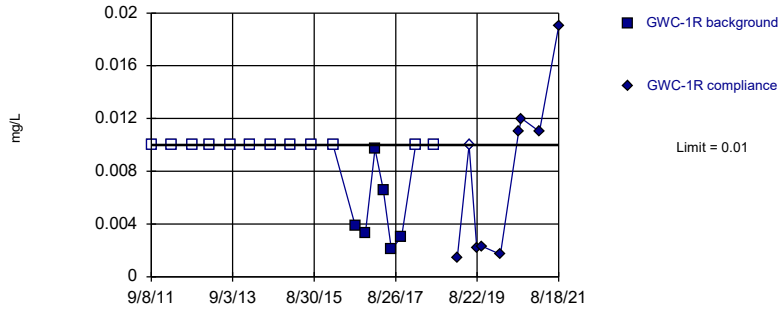
Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

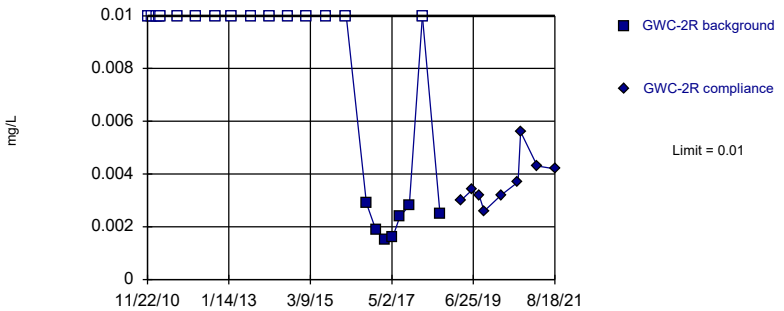
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

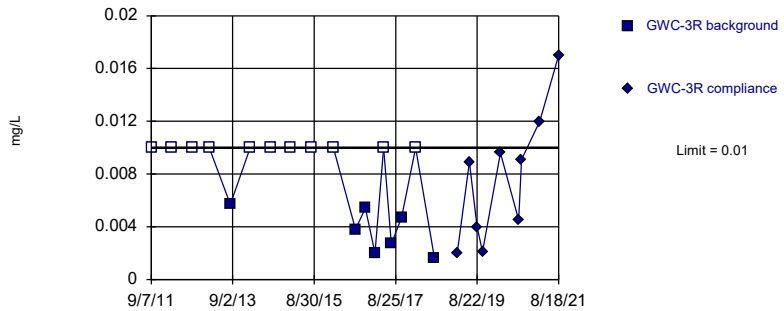
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

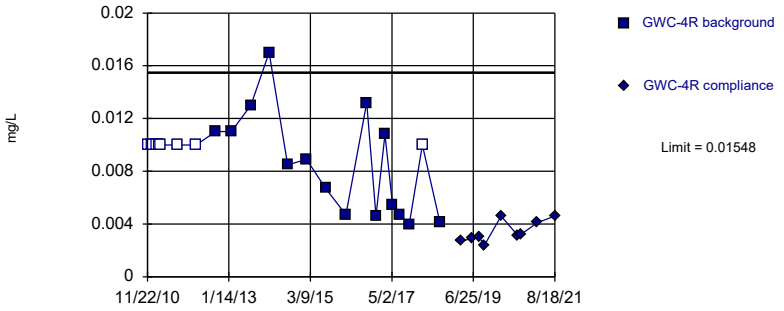
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007285, Std. Dev.=0.003569, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

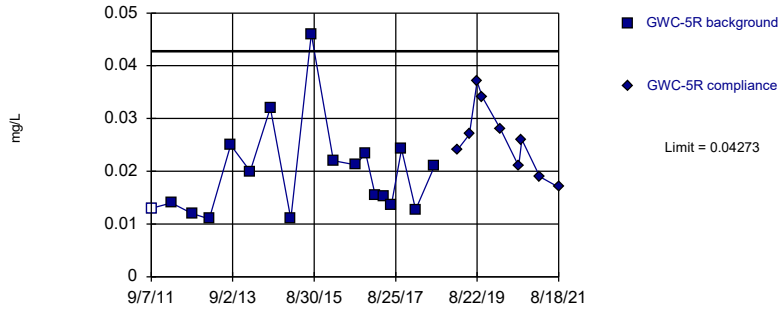
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1371, Std. Dev.=0.02884, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8922, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

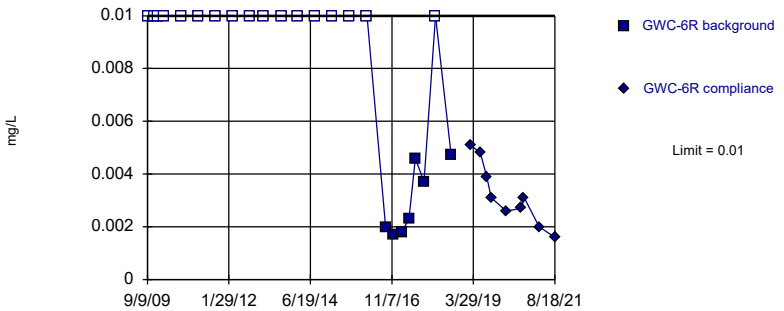
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

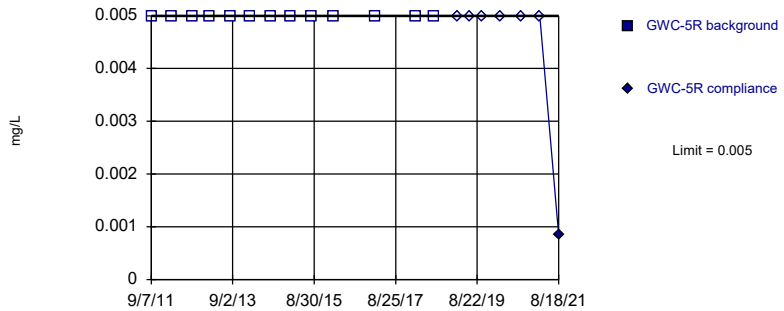
Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 13) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

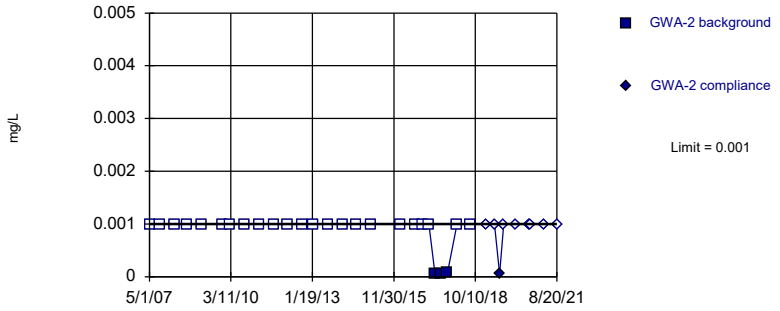
Constituent: Silver Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

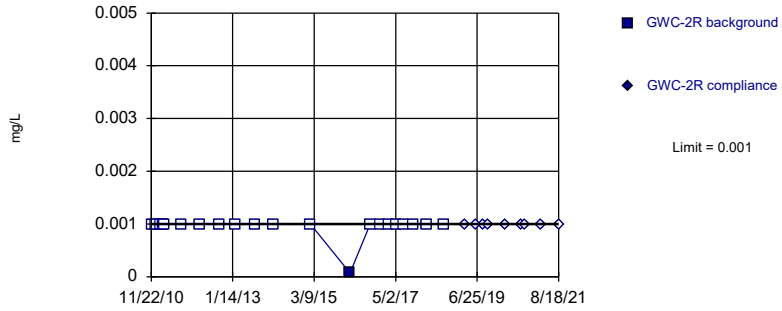
Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

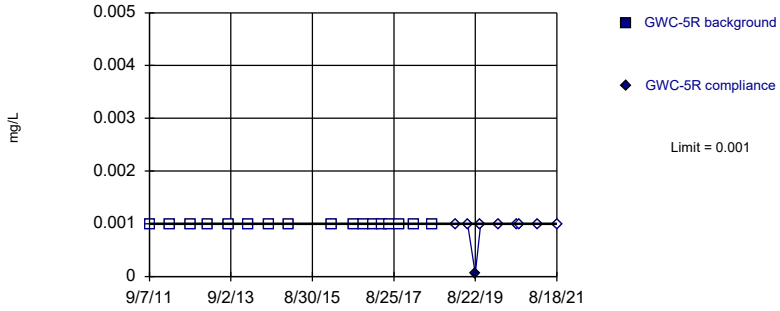
Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

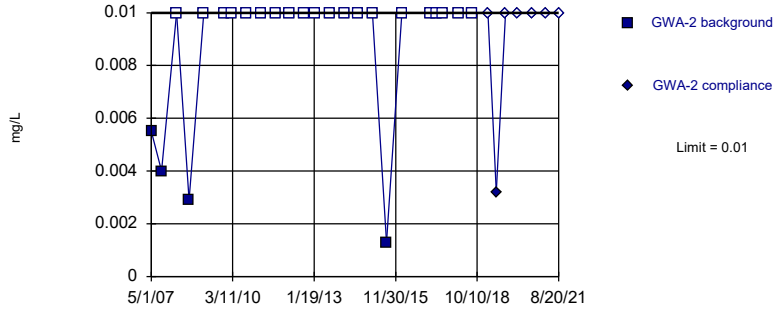
Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

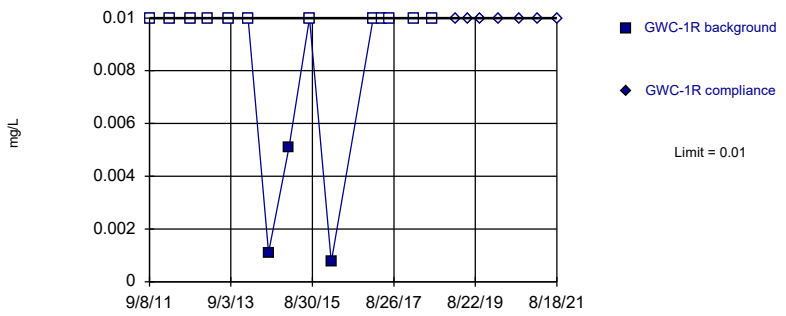
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

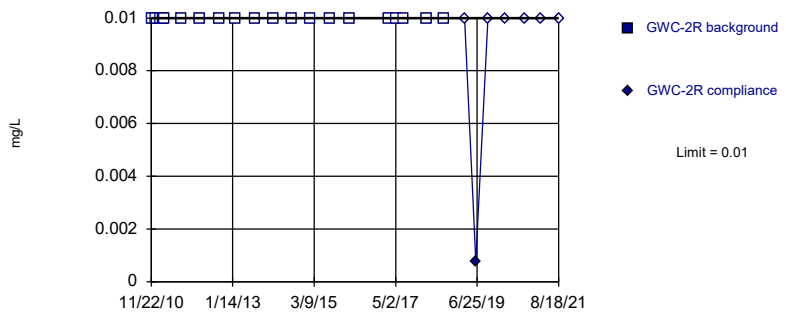
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

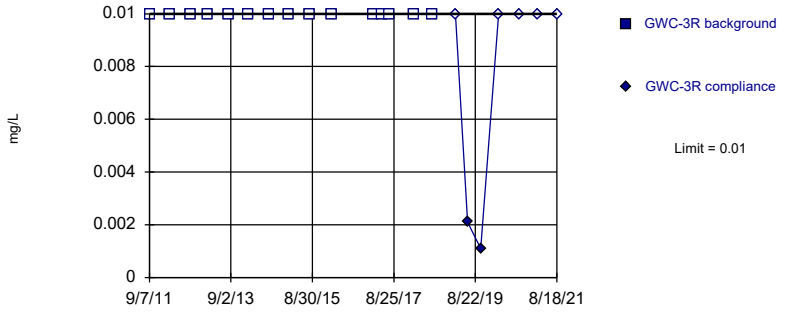
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

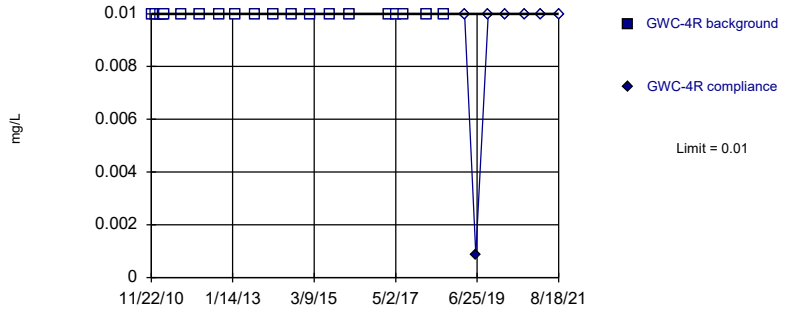
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

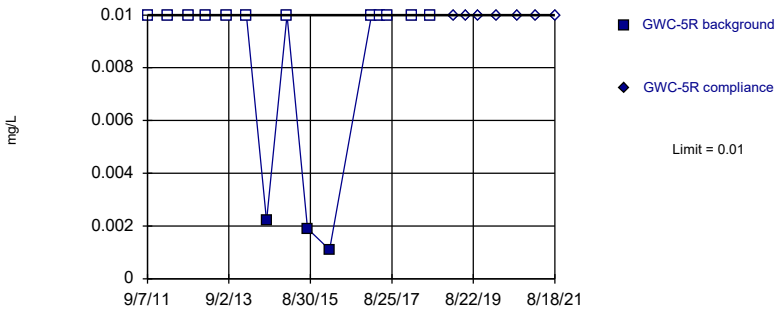
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

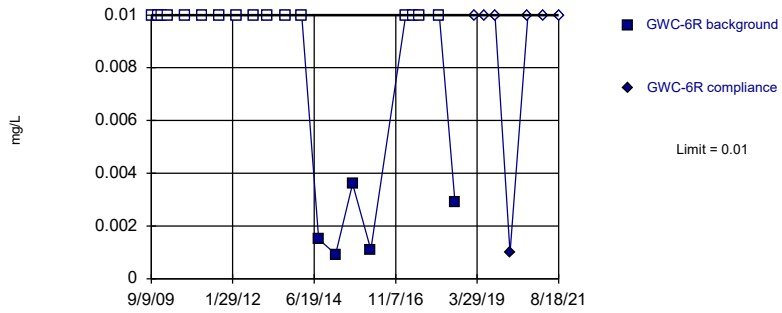
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 76.19% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

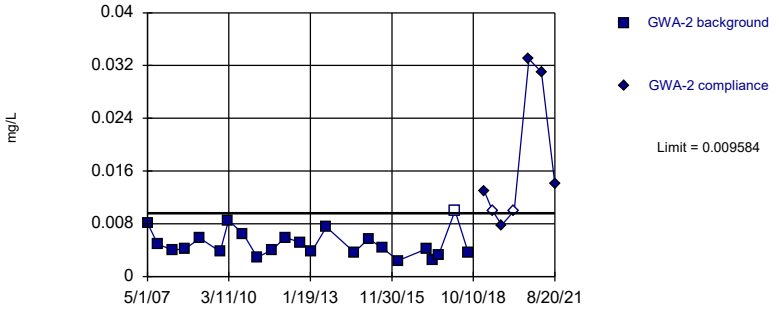
Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.004991, Std. Dev.=0.002, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

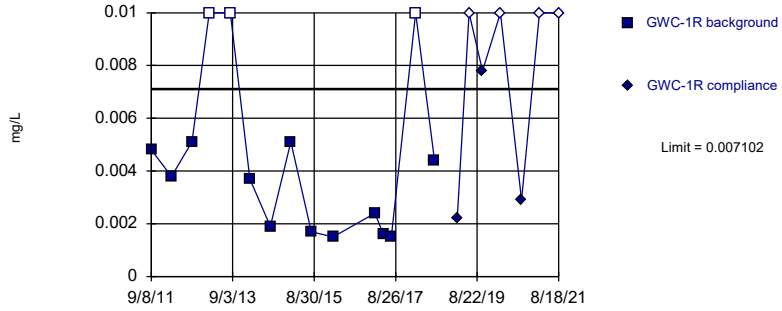
Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05264, Std. Dev.=0.0125, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8675, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

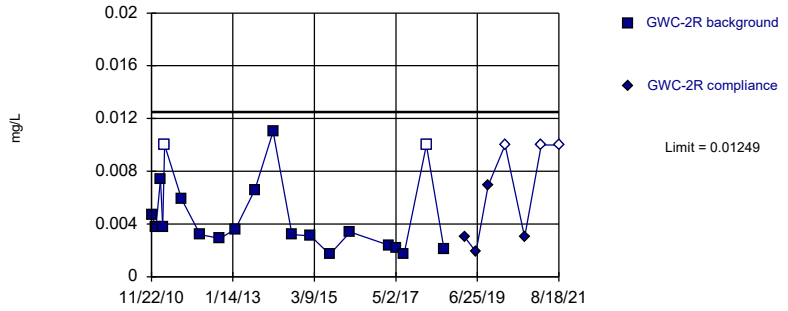
Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.0653, Std. Dev.=0.01977, n=20, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II

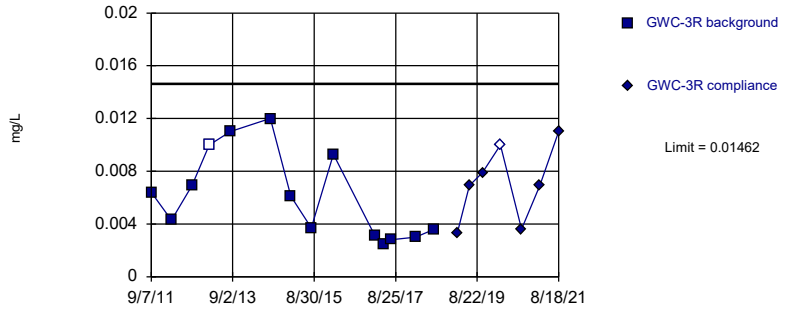
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.00605, Std. Dev.=0.003313, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8788, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II

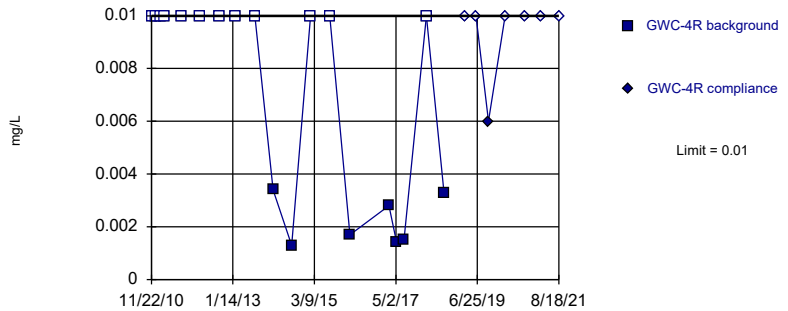
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II

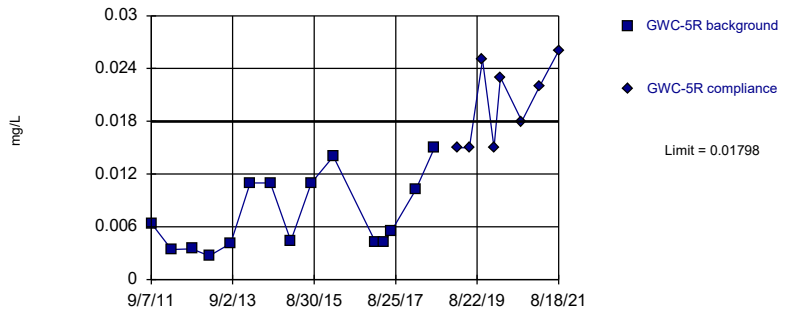
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.00738, Std. Dev.=0.004189, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8595, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II

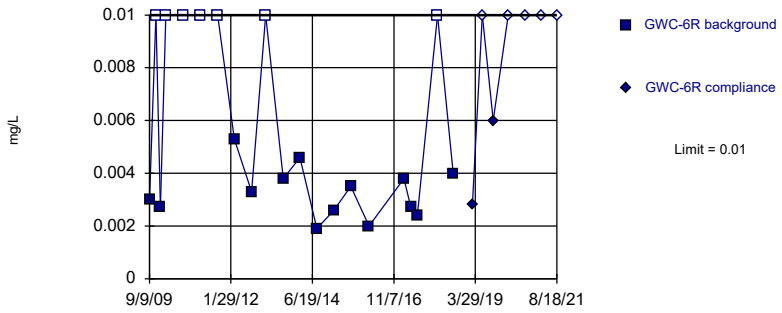
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.003	
9/11/2007	<0.003	
3/20/2008	<0.003	
8/27/2008	<0.003	
3/3/2009	<0.003	
11/18/2009	<0.003	
3/3/2010	<0.003	
9/8/2010	<0.003	
3/10/2011	<0.003	
9/8/2011	<0.003	
3/5/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/12/2013	<0.003	
2/5/2014	<0.003	
8/5/2014	<0.003	
2/4/2015	<0.003	
8/3/2015	<0.003	
2/16/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	0.0014 (J)	
2/22/2017	<0.003	
5/8/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/19/2018	<0.003	
8/6/2018	<0.003	
2/25/2019		<0.003
6/12/2019		<0.003
8/19/2019		<0.003
10/8/2019		<0.003
3/17/2020		<0.003
8/26/2020		0.00042 (J)
9/22/2020		0.00044 (J)
3/2/2021		<0.003
8/20/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		<0.003
8/20/2019		<0.003
10/9/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		0.0017 (J)
3/1/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	0.0014 (J)	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		0.00028 (J)
8/19/2019		<0.003
10/10/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		0.00053 (J)
3/1/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	<0.003	
2/3/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
12/1/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/21/2018	<0.003	
8/7/2018	<0.003	
2/26/2019		<0.003
6/13/2019		<0.003
8/21/2019		0.00054 (J)
10/9/2019		<0.003
3/18/2020		<0.003
8/27/2020		<0.003
9/23/2020		0.00031 (J)
3/2/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.005	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	<0.005	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	<0.005	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/12/2019		0.00038 (J)
8/19/2019		0.00095 (J)
10/8/2019		<0.005
3/17/2020		<0.005
8/26/2020		<0.005
9/22/2020		<0.005
3/2/2021		<0.005
8/20/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	0.0005 (J)	
7/18/2017	<0.005	
10/17/2017	0.0009 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/20/2019		0.00044 (J)
10/9/2019		<0.005
3/17/2020		<0.005
8/27/2020		0.0011 (J)
9/22/2020		<0.005
3/1/2021		0.0022 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/20/2019		0.00075 (J)
10/9/2019		<0.005
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		0.0011 (J)
8/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.0016 (J)
8/21/2019		0.00061 (J)
10/10/2019		<0.005
3/17/2020		0.0016 (J)
8/28/2020		<0.005
9/22/2020		<0.005
3/2/2021		0.0017 (J)
8/18/2021		0.0028 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		0.00037 (J)
8/19/2019		0.00059 (J)
10/10/2019		<0.005
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	0.0011 (J)	
7/17/2017	0.0013 (J)	
10/16/2017	0.0011 (J)	
2/21/2018	0.00091 (J)	
8/7/2018	0.0021 (J)	
2/26/2019		0.00069 (J)
6/13/2019		0.0012 (J)
8/21/2019		0.00094 (J)
10/9/2019		0.0012 (J)
3/18/2020		0.0008 (J)
8/27/2020		0.0016 (J)
9/23/2020		0.00092 (J)
3/2/2021		0.0024 (J)
8/18/2021		0.0021 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.001 (J)	
10/18/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	0.0023 (J)	
2/25/2019		0.00073 (J)
6/13/2019		0.00068 (J)
8/20/2019		0.00072 (J)
10/8/2019		0.00056 (J)
3/17/2020		<0.005
8/27/2020		0.0011 (J)
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.032	
9/11/2007	0.017	
3/20/2008	0.025	
8/27/2008	0.041	
3/3/2009	0.053	
11/18/2009	0.05	
3/3/2010	0.061	
9/8/2010	0.071	
3/10/2011	0.057	
9/8/2011	0.057	
3/5/2012	0.061	
9/10/2012	0.055	
2/6/2013	0.061	
8/12/2013	0.055	
2/5/2014	0.063	
8/5/2014	0.038	
2/4/2015	0.039	
8/3/2015	0.031	
2/16/2016	0.045	
8/31/2016	0.0542	
11/28/2016	0.0529	
2/22/2017	0.0607	
5/8/2017	0.065	
7/17/2017	0.06	
10/16/2017	0.0542	
2/19/2018	0.0533	
8/6/2018	0.044	
2/25/2019		0.045
6/12/2019		0.063
8/19/2019		0.065
10/8/2019		0.058
3/17/2020		0.047
8/26/2020		0.044
9/22/2020		0.045
3/2/2021		0.039
8/20/2021		0.036

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.086	
3/5/2012	0.044	
9/5/2012	0.034	
2/5/2013	0.03	
8/13/2013	0.027	
2/4/2014	0.037	
8/5/2014	0.048	
2/2/2015	0.069	
8/4/2015	0.023 (D)	
2/16/2016	0.044	
8/31/2016	0.0711	
11/29/2016	0.0754	
2/23/2017	0.0646	
5/9/2017	0.0463	
7/18/2017	0.039	
10/17/2017	0.0349	
2/21/2018	0.0322	
8/7/2018	0.025	
2/26/2019		0.028
6/13/2019		0.033
8/20/2019		0.07
10/9/2019		0.054
3/17/2020		0.031
8/27/2020		0.072
9/22/2020		0.068
3/1/2021		0.063
8/18/2021		0.076

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.12	
1/4/2011	0.1	
2/17/2011	0.1	
3/11/2011	0.05	
3/28/2011	0.087	
9/7/2011	0.065	
3/6/2012	0.049	
9/11/2012	0.045	
2/6/2013	0.05	
8/13/2013	0.13	
2/4/2014	0.08	
8/5/2014	0.068	
2/2/2015	0.066	
8/4/2015	0.053	
2/17/2016	0.059	
8/31/2016	0.0601	
11/28/2016	0.0562	
2/22/2017	0.0481	
5/10/2017	0.0563	
7/18/2017	0.049	
10/17/2017	0.047	
2/20/2018	0.0467	
8/8/2018	0.049	
2/26/2019		0.056
6/12/2019		0.046
8/20/2019		0.05
10/9/2019		0.045
3/18/2020		0.04
8/28/2020		0.044
9/22/2020		0.04
3/1/2021		0.043
8/18/2021		0.033

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.025	
3/5/2012	0.014	
9/5/2012	0.0095	
2/6/2013	0.0094	
8/13/2013	0.13	
2/5/2014	0.066	
8/4/2014	0.043	
2/3/2015	0.031	
8/3/2015	0.039 (D)	
2/16/2016	0.038	
8/31/2016	0.0286	
11/30/2016	0.0258	
2/23/2017	0.0278	
5/9/2017	0.0308	
7/18/2017	0.0407	
10/18/2017	0.049	
2/21/2018	0.0285	
8/7/2018	0.029	
2/26/2019		0.026
6/13/2019		0.021
8/21/2019		0.02
10/10/2019		0.018
3/17/2020		0.024
8/28/2020		0.014
9/22/2020		0.014
3/2/2021		0.015
8/18/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	0.03	
1/4/2011	0.065	
2/17/2011	0.061	
3/11/2011	0.066	
3/28/2011	0.04	
9/7/2011	0.041	
3/4/2012	0.046	
9/10/2012	0.084	
2/6/2013	0.042	
8/14/2013	0.042	
2/4/2014	0.046	
8/4/2014	0.027	
2/2/2015	0.02	
8/3/2015	0.017 (D)	
2/16/2016	0.032	
9/1/2016	0.0377	
11/30/2016	0.0148	
2/24/2017	0.029	
5/10/2017	0.0182	
7/18/2017	0.0187	
10/17/2017	0.0157	
2/20/2018	0.0151	
8/8/2018	0.019	
2/26/2019		0.017
6/12/2019		0.017
8/19/2019		0.02
10/10/2019		0.018
3/18/2020		0.038
8/28/2020		0.026
9/22/2020		0.026
3/1/2021		0.035
8/18/2021		0.04

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.02	
3/5/2012	0.048	
9/5/2012	0.07	
2/5/2013	0.068	
8/14/2013	0.036	
2/5/2014	0.044	
8/4/2014	0.058	
2/3/2015	0.033	
8/3/2015	0.037 (D)	
2/16/2016	0.04	
9/1/2016	0.0345	
12/1/2016	0.0342	
2/24/2017	0.0347	
5/10/2017	0.0363	
7/17/2017	0.0274	
10/16/2017	0.0151	
2/21/2018	0.0174	
8/7/2018	0.015	
2/26/2019		0.014
6/13/2019		0.014
8/21/2019		0.014
10/9/2019		0.015
3/18/2020		0.015
8/27/2020		0.013
9/23/2020		0.012
3/2/2021		0.011
8/18/2021		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.025	
11/18/2009	0.025	
1/5/2010	0.018	
3/3/2010	0.022	
9/7/2010	0.019	
3/10/2011	0.017	
9/8/2011	0.019	
3/5/2012	0.027	
9/5/2012	0.04	
2/5/2013	0.056	
8/13/2013	0.07	
2/4/2014	0.051	
8/5/2014	0.041	
2/3/2015	0.04	
8/4/2015	0.042	
2/16/2016	0.068	
9/1/2016	0.0536	
11/29/2016	0.0459	
2/23/2017	0.0581	
5/10/2017	0.0873	
7/18/2017	0.0994	
10/18/2017	0.0757	
2/19/2018	0.0703	
8/6/2018	0.076	
2/25/2019		0.045
6/13/2019		0.062
8/20/2019		0.06
10/8/2019		0.054
3/17/2020		0.031
8/27/2020		0.045
9/23/2020		0.044
3/3/2021		0.043
8/18/2021		0.035

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	7.5E-05 (J)	
2/2/2015	0.00023 (J)	
8/4/2015	<0.003 (D)	
2/16/2016	<0.003	
8/31/2016	0.0001 (J)	
11/29/2016	<0.003	
2/23/2017	<0.003	
5/9/2017	8E-05 (J)	
7/18/2017	<0.003	
10/17/2017	0.0001 (J)	
2/21/2018	<0.003	
8/7/2018	7.4E-05 (J)	
2/26/2019		7.5E-05 (J)
6/13/2019		<0.003
8/20/2019		0.0001 (J)
10/9/2019		0.00013 (J)
3/17/2020		7.6E-05 (J)
8/27/2020		0.00024 (J)
9/22/2020		0.00021 (J)
3/1/2021		0.00023 (J)
8/18/2021		0.0003 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	7E-05 (J)	
2/26/2019		5.3E-05 (J)
6/12/2019		<0.003
8/20/2019		0.00017 (J)
10/9/2019		0.00014 (J)
3/18/2020		0.00012 (J)
8/28/2020		0.0002 (J)
9/22/2020		0.00021 (J)
3/1/2021		0.00032 (J)
8/18/2021		0.00022 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.0011 (J)	
2/3/2015	0.00061 (J)	
8/3/2015	0.00051 (JD)	
2/16/2016	0.00084 (J)	
8/31/2016	0.0003 (J)	
11/30/2016	0.0004 (J)	
2/23/2017	0.0003 (J)	
5/9/2017	0.0002 (J)	
7/18/2017	0.0002 (J)	
10/18/2017	0.0004 (J)	
2/21/2018	<0.003	
8/7/2018	0.00026 (J)	
2/26/2019		0.00038 (J)
6/13/2019		0.00051 (J)
8/21/2019		0.00046 (J)
10/10/2019		0.00039 (J)
3/17/2020		0.00095 (J)
8/28/2020		0.0005 (J)
9/22/2020		0.00042 (J)
3/2/2021		0.00081
8/18/2021		0.0011

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		<0.003
8/19/2019		<0.003
10/10/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		5.8E-05 (J)
3/1/2021		6E-05 (J)
8/18/2021		0.00011 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.00026 (J)	
2/3/2015	0.00023 (J)	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00048 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0003 (J)	
2/24/2017	0.0002 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.003	
8/7/2018	0.00096 (J)	
2/26/2019		0.0015 (J)
6/13/2019		0.0015 (J)
8/21/2019		0.0028 (J)
10/9/2019		0.0022 (J)
3/18/2020		0.0028 (J)
8/27/2020		0.0023 (J)
9/23/2020		0.0023 (J)
3/2/2021		0.0037
8/18/2021		0.0033

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025 (D)	
2/16/2016	<0.0025	
8/31/2016	<0.0025	
11/29/2016	8E-05 (J)	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019		<0.0025
6/13/2019		<0.0025
8/20/2019		<0.0025
10/9/2019		<0.0025
3/17/2020		<0.0025
8/27/2020		0.00012 (J)
9/22/2020		0.00016 (J)
3/1/2021		0.00013 (J)
8/18/2021		0.00017 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0025	
1/4/2011	<0.0025	
2/17/2011	<0.0025	
3/11/2011	<0.0025	
3/28/2011	<0.0025	
9/7/2011	<0.0025	
3/6/2012	<0.0025	
9/11/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025	
2/17/2016	<0.0025	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<0.0025	
5/10/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/20/2018	<0.0025	
8/8/2018	<0.0025	
2/26/2019		<0.0025
6/12/2019		<0.0025
8/20/2019		<0.0025
10/9/2019		<0.0025
3/18/2020		<0.0025
8/28/2020		0.00015 (J)
9/22/2020		0.00016 (J)
3/1/2021		0.00016 (J)
8/18/2021		0.00016 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/5/2014	<0.0025	
8/4/2014	0.00034 (J)	
2/3/2015	<0.0025	
8/3/2015	<0.0025 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.0025	
11/30/2016	<0.0025	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/18/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019		0.00011 (J)
6/13/2019		0.00021 (J)
8/21/2019		<0.0025
10/10/2019		0.00018 (J)
3/17/2020		0.00037 (J)
8/28/2020		0.00014 (J)
9/22/2020		0.00013 (J)
3/2/2021		0.00021 (J)
8/18/2021		0.00022 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/4/2012	<0.0005	
9/10/2012	<0.0005	
2/6/2013	<0.0005	
8/14/2013	<0.0005	
2/4/2014	<0.0005	
8/4/2014	<0.0005	
2/2/2015	<0.0005	
8/3/2015	<0.0005 (D)	
2/16/2016	<0.0005	
9/1/2016	0.0001 (J)	
11/30/2016	<0.0005	
2/24/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019		<0.0005
6/12/2019		<0.0005
8/19/2019		<0.0005
10/10/2019		<0.0005
3/18/2020		<0.0005
8/28/2020		<0.0005
9/22/2020		<0.0005
3/1/2021		<0.0005
8/18/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	0.00045 (J)	
2/3/2015	<0.001	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00097 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0004 (J)	
2/24/2017	0.0003 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.001	
8/7/2018	0.00083 (J)	
2/26/2019		0.00081 (J)
6/13/2019		0.00073 (J)
8/21/2019		0.0012 (J)
10/9/2019		0.0011 (J)
3/18/2020		0.0012 (J)
8/27/2020		0.00091 (J)
9/23/2020		0.00094 (J)
3/2/2021		0.0011
8/18/2021		0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0029	
9/11/2007	0.0084	
3/20/2008	0.0027	
8/27/2008	0.0026	
3/3/2009	0.0022	
11/18/2009	0.0036	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	0.0059	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	0.0011 (J)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/12/2019		<0.005
8/19/2019		<0.005
10/8/2019		<0.005
3/17/2020		<0.005
8/26/2020		<0.005
9/22/2020		<0.005
3/2/2021		<0.005
8/20/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	0.0028	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0012 (J)	
11/29/2016	0.0009 (J)	
2/23/2017	0.001 (J)	
5/9/2017	0.0011 (J)	
7/18/2017	0.0008 (J)	
10/17/2017	0.001 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.0009 (J)
8/20/2019		0.0011 (J)
10/9/2019		0.0012 (J)
3/17/2020		0.001 (J)
8/27/2020		0.0013 (J)
9/22/2020		0.0012 (J)
3/1/2021		0.0012 (J)
8/18/2021		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0017	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	0.0008 (J)	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/20/2019		<0.005
10/9/2019		0.00059 (J)
3/18/2020		0.0004 (J)
8/28/2020		0.00057 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0019	
2/5/2014	0.0023	
8/4/2014	0.002	
2/3/2015	0.0014	
8/3/2015	0.0012 (JD)	
2/16/2016	0.0017	
8/31/2016	0.0013 (J)	
11/30/2016	0.001 (J)	
2/23/2017	0.0012 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0009 (J)	
10/18/2017	0.001 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00073 (J)
8/21/2019		0.001 (J)
10/10/2019		0.0014 (J)
3/17/2020		0.0013 (J)
8/28/2020		0.00088 (J)
9/22/2020		0.0011 (J)
3/2/2021		0.001 (J)
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0062	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	0.0013 (J)	
2/24/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.0011 (J)	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/19/2019		0.00051 (J)
10/10/2019		0.00057 (J)
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	0.0016	
2/5/2014	0.0018	
8/4/2014	0.0029	
2/3/2015	0.0017	
8/3/2015	0.0028 (D)	
2/16/2016	0.0028	
9/1/2016	0.0021 (J)	
12/1/2016	0.0017 (J)	
2/24/2017	0.0018 (J)	
5/10/2017	0.0024 (J)	
7/17/2017	0.0017 (J)	
10/16/2017	0.0023 (J)	
2/21/2018	<0.01	
8/7/2018	0.0024 (J)	
2/26/2019		0.0019 (J)
6/13/2019		0.0018 (J)
8/21/2019		0.0024 (J)
10/9/2019		0.0024 (J)
3/18/2020		0.0023 (J)
8/27/2020		0.0022 (J)
9/23/2020		0.002 (J)
3/2/2021		0.0021 (J)
8/18/2021		0.0023 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	0.0018	
3/5/2012	<0.01	
9/5/2012	0.0013	
2/5/2013	<0.01	
8/13/2013	0.0025	
2/4/2014	0.0013	
8/5/2014	0.0018	
2/3/2015	0.0015	
8/4/2015	0.0028	
2/16/2016	0.001 (J)	
9/1/2016	0.0015 (J)	
11/29/2016	0.0014 (J)	
2/23/2017	0.0017 (J)	
5/10/2017	0.0015 (J)	
7/18/2017	0.0012 (J)	
10/18/2017	0.0012 (J)	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019		<0.01
6/13/2019		0.00089 (J)
8/20/2019		0.0017 (J)
10/8/2019		0.0014 (J)
3/17/2020		0.0013 (J)
8/27/2020		0.0012 (J)
9/23/2020		0.0015 (J)
3/3/2021		0.0014 (J)
8/18/2021		0.0015 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0067	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	0.0027	
9/8/2010	0.007	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	0.0032	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	0.0045	
2/5/2014	<0.005	
8/5/2014	0.0027	
2/4/2015	0.0016	
8/3/2015	0.002	
2/16/2016	0.0027	
8/31/2016	0.0053 (J)	
11/28/2016	0.0036 (J)	
2/22/2017	0.0049 (J)	
5/8/2017	0.0059 (J)	
7/17/2017	0.0046 (J)	
10/16/2017	0.0034 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019		0.001 (J)
6/12/2019		0.003 (J)
8/19/2019		0.0035 (J)
10/8/2019		0.0039 (J)
3/17/2020		0.003 (J)
8/26/2020		0.2 (o)
9/22/2020		0.16 (o)
3/2/2021		0.21 (o)
8/20/2021		0.074 (o)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.015	
3/5/2012	<0.005	
9/5/2012	0.0018	
2/5/2013	0.0013	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0015	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	0.0006 (J)	
11/29/2016	<0.005	
2/23/2017	0.0009 (J)	
5/9/2017	0.0008 (J)	
7/18/2017	0.0032 (J)	
10/17/2017	0.0007 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00033 (J)
8/20/2019		0.00079 (J)
10/9/2019		0.00064 (J)
3/17/2020		0.00054 (J)
8/27/2020		0.00081 (J)
9/22/2020		0.0008 (J)
3/1/2021		0.00083 (J)
8/18/2021		0.0014 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.038	
1/4/2011	0.049	
2/17/2011	0.044	
3/11/2011	0.038	
3/28/2011	0.029	
9/7/2011	0.031	
3/6/2012	0.021	
9/11/2012	0.017	
2/6/2013	0.025	
8/13/2013	0.023	
2/4/2014	0.019	
8/5/2014	0.023	
2/2/2015	0.022	
8/4/2015	0.021	
2/17/2016	0.024	
8/31/2016	0.0239	
11/28/2016	0.0189	
2/22/2017	0.0184	
5/10/2017	0.0213	
7/18/2017	0.0261	
10/17/2017	0.0182	
2/20/2018	<0.005	
8/8/2018	0.014	
2/26/2019		0.029
6/12/2019		0.013
8/20/2019		0.014
10/9/2019		0.024
3/18/2020		0.019
8/28/2020		0.0072
9/22/2020		0.0054
3/1/2021		0.00074 (J)
8/18/2021		0.00066 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.01
8/21/2019		0.0016 (J)
10/10/2019		<0.005
3/17/2020		0.011
8/28/2020		0.0041 (J)
9/22/2020		0.0021 (J)
3/2/2021		0.0086
8/18/2021		0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0036	
2/17/2011	0.0035	
3/11/2011	0.0053	
3/28/2011	<0.005	
9/7/2011	0.0033	
3/4/2012	0.0032	
9/10/2012	0.0067	
2/6/2013	0.0024	
8/14/2013	0.0014	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.0082	
9/1/2016	0.0023 (J)	
11/30/2016	0.0008 (J)	
2/24/2017	0.0025 (J)	
5/10/2017	<0.005	
7/18/2017	0.0005 (J)	
10/17/2017	0.0006 (J)	
2/20/2018	<0.005	
8/8/2018	0.001 (J)	
2/26/2019		<0.005
6/12/2019		0.00078 (J)
8/19/2019		0.001 (J)
10/10/2019		0.00099 (J)
3/18/2020		0.0031 (J)
8/28/2020		0.00049 (J)
9/22/2020		0.00039 (J)
3/1/2021		0.0016 (J)
8/18/2021		0.0027 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/21/2019		0.00034 (J)
10/9/2019		0.00031 (J)
3/18/2020		0.00044 (J)
8/27/2020		<0.005
9/23/2020		<0.005
3/2/2021		0.00039 (J)
8/18/2021		0.00053 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	0.0014	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/13/2019		<0.005
8/20/2019		<0.005
10/8/2019		<0.005
3/17/2020		<0.005
8/27/2020		<0.005
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0047	
9/11/2007	<0.025	
3/20/2008	<0.025	
8/27/2008	0.0074	
3/3/2009	<0.025	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.025	
3/10/2011	0.0029	
9/8/2011	<0.025	
3/5/2012	<0.025	
9/10/2012	<0.025	
2/6/2013	<0.025	
8/12/2013	<0.025	
2/5/2014	<0.025	
8/5/2014	0.005	
2/4/2015	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.025	
8/6/2018	<0.025	
2/25/2019		<0.025
6/12/2019		0.00034 (J)
10/8/2019		0.00041 (J)
3/17/2020		0.00078 (J)
9/22/2020		0.0041 (J)
3/2/2021		0.0027 (J)
8/20/2021		0.0012 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0031 (J)	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/9/2019		0.00079 (J)
3/17/2020		0.0004 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		0.00067 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
10/9/2019		0.00024 (J)
3/18/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	0.016	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0012 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00082 (J)	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/10/2019		0.00033 (J)
3/17/2020		0.00039 (J)
9/22/2020		<0.005
3/2/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0049	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00088 (J)	
2/24/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		0.00025 (J)
10/10/2019		<0.005
3/18/2020		0.00021 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0015 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00049 (J)
10/9/2019		0.00087 (J)
3/18/2020		0.00097 (J)
9/23/2020		<0.005
3/2/2021		<0.005
8/18/2021		0.0022 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.0028	
11/18/2009	0.0027	
1/5/2010	0.0035	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	0.0012 (J)	
2/3/2015	0.0013 (J)	
8/4/2015	0.0043 (J)	
2/16/2016	<0.005	
2/23/2017	0.0018 (J)	
2/19/2018	<0.005	
8/6/2018	0.0016 (J)	
2/25/2019		0.0016 (J)
6/13/2019		0.0011 (J)
10/8/2019		0.0011 (J)
3/17/2020		0.00091 (J)
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		0.00083 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
8/3/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019		<0.001
6/12/2019		<0.001
8/19/2019		<0.001
10/8/2019		<0.001
3/17/2020		<0.001
8/26/2020		<0.001
9/22/2020		0.0001 (J)
3/2/2021		<0.001
8/20/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/29/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/20/2019		<0.001
10/9/2019		5.2E-05 (J)
3/17/2020		<0.001
8/27/2020		6.7E-05 (J)
9/22/2020		<0.001
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001	
2/17/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	0.0001 (J)	
7/18/2017	7E-05 (J)	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/20/2019		6.1E-05 (J)
10/9/2019		5.7E-05 (J)
3/18/2020		<0.001
8/28/2020		8.4E-05 (J)
9/22/2020		8.2E-05 (J)
3/1/2021		7E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	0.0001 (J)	
11/30/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/18/2017	8E-05 (J)	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		8.2E-05 (J)
10/10/2019		<0.001
3/17/2020		0.00015 (J)
8/28/2020		5.4E-05 (J)
9/22/2020		6.4E-05 (J)
3/2/2021		9.6E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/4/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/14/2013	<0.001	
2/4/2014	<0.001	
8/4/2014	<0.001	
2/2/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
11/30/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/19/2019		<0.001
10/10/2019		<0.001
3/18/2020		<0.001
8/28/2020		<0.001
9/22/2020		4.1E-05 (J)
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		7E-05 (J)
10/9/2019		5.9E-05 (J)
3/18/2020		7.9E-05 (J)
8/27/2020		4.9E-05 (J)
9/23/2020		0.00019 (J)
3/2/2021		5.4E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.0002	
9/11/2007	<0.0002	
3/20/2008	<0.0002	
8/27/2008	<0.0002	
3/3/2009	<0.0002	
11/18/2009	<0.0002	
3/3/2010	<0.0002	
9/8/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	<0.0002	
8/12/2013	<0.0002	
2/5/2014	<0.0002	
8/5/2014	<0.0002	
2/4/2015	<0.0002	
8/3/2015	<0.0002	
2/16/2016	1.36E-05 (J)	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/8/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019		7.4E-05 (J)
6/12/2019		<0.0002
8/19/2019		<0.0002
10/8/2019		<0.0002
5/6/2020		<0.0002
8/26/2020		<0.0002
9/22/2020		<0.0002
3/2/2021		<0.0002
8/20/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002 (D)	
2/16/2016	<0.0002	
8/31/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		5.9E-05 (J)
6/13/2019		<0.0002
8/20/2019		<0.0002
10/9/2019		<0.0002
5/6/2020		<0.0002
8/27/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/6/2012	<0.0002	
9/11/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002	
2/17/2016	<0.0002	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019		7.1E-05 (J)
6/12/2019		<0.0002
8/20/2019		<0.0002
10/9/2019		<0.0002
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	1.34E-05 (J)	
8/31/2016	<0.0002	
11/30/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		6.4E-05 (J)
6/13/2019		<0.0002
8/21/2019		<0.0002
10/10/2019		0.00043 (J)
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/2/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/4/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	0.00014	
8/14/2013	<0.0002	
2/4/2014	<0.0002	
8/4/2014	<0.0002	
2/2/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
11/30/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019		5.8E-05 (J)
6/12/2019		<0.0002
8/19/2019		<0.0002
10/10/2019		<0.0002
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/14/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
12/1/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		6E-05 (J)
6/13/2019		<0.0002
8/21/2019		<0.0002
10/9/2019		<0.0002
5/7/2020		<0.0002
8/27/2020		<0.0002
9/23/2020		<0.0002
3/2/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.0002	
11/18/2009	<0.0002	
1/5/2010	<0.0002	
3/3/2010	<0.0002	
9/7/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/3/2015	<0.0002	
8/4/2015	<0.0002	
2/16/2016	1.13E-05 (J)	
9/1/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019		6.7E-05 (J)
6/13/2019		<0.0002
8/20/2019		<0.0002
10/8/2019		<0.0002
5/6/2020		<0.0002
8/27/2020		<0.0002
9/23/2020		<0.0002
3/3/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0061	
9/11/2007	0.021	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	0.005	
11/18/2009	0.0052	
3/3/2010	0.011	
9/8/2010	0.012	
3/10/2011	0.0032	
9/8/2011	0.0046	
3/5/2012	0.0053	
9/10/2012	0.0074	
2/6/2013	0.0077	
8/12/2013	0.016	
2/5/2014	0.019	
8/5/2014	0.0057	
2/4/2015	0.0055	
8/3/2015	0.0055	
2/16/2016	0.0039	
2/22/2017	0.0051 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019		0.0026 (J)
6/12/2019		0.0038 (J)
10/8/2019		0.0051 (J)
3/17/2020		0.0066
9/22/2020		0.027
3/2/2021		0.034
8/20/2021		0.014

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.009	
3/5/2012	0.0035	
9/5/2012	0.0027	
2/5/2013	0.0026	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0013 (J)	
2/2/2015	0.0023 (J)	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	0.0026 (J)	
2/21/2018	0.001 (J)	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.00072 (J)
10/9/2019		0.0015 (J)
3/17/2020		0.00087 (J)
9/22/2020		0.0021 (J)
3/1/2021		0.0024 (J)
8/18/2021		0.0028 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0096	
1/4/2011	0.0084	
2/17/2011	0.0088	
3/11/2011	0.0058	
3/28/2011	0.0058	
9/7/2011	0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.003	
2/4/2014	0.0026	
8/5/2014	0.0015 (J)	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	0.0009 (J)	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		0.0068 (J)
6/12/2019		0.00043 (J)
10/9/2019		0.00058 (J)
3/18/2020		0.00063 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0054	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0032	
2/5/2014	0.0039	
8/4/2014	0.0024 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/10/2019		<0.005
3/17/2020		0.00056 (J)
9/22/2020		<0.005
3/2/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0033	
8/4/2014	0.0015 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	0.0021 (J)	
2/20/2018	<0.01	
8/8/2018	0.0012 (J)	
2/26/2019		<0.01
6/12/2019		0.00082 (J)
10/10/2019		0.00084 (J)
3/18/2020		0.0026 (J)
9/22/2020		0.00077 (J)
3/1/2021		0.0021 (J)
8/18/2021		0.0026 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/14/2013	0.0032	
2/5/2014	0.0032	
8/4/2014	0.0059	
2/3/2015	0.0013 (J)	
8/3/2015	0.0039 (D)	
2/16/2016	0.0036	
2/24/2017	0.0019 (J)	
2/21/2018	0.0013 (J)	
8/7/2018	0.0019 (J)	
2/26/2019		0.0023 (J)
6/13/2019		0.0019 (J)
10/9/2019		0.0019 (J)
3/18/2020		0.002 (J)
9/23/2020		0.0012 (J)
3/2/2021		0.0014 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
2/23/2017	0.0015 (J)	
2/19/2018	<0.005	
8/6/2018	0.0026 (J)	
2/25/2019		0.0023 (J)
6/13/2019		0.0037 (J)
10/8/2019		0.0021 (J)
3/17/2020		0.0011 (J)
9/23/2020		0.0016 (J)
3/3/2021		0.0016 (J)
8/18/2021		0.0012 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0039 (J)	
11/29/2016	0.0033 (J)	
2/23/2017	0.0097 (J)	
5/9/2017	0.0066 (J)	
7/18/2017	0.0021 (J)	
10/17/2017	0.003 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		0.0014 (J)
6/13/2019		<0.01
8/20/2019		0.0022 (J)
10/9/2019		0.0023 (J)
3/17/2020		0.0017 (J)
8/27/2020		0.011
9/22/2020		0.012
3/1/2021		0.011
8/18/2021		0.019

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
8/31/2016	0.0029 (J)	
11/28/2016	0.0019 (J)	
2/22/2017	0.0015 (J)	
5/10/2017	0.0016 (J)	
7/18/2017	0.0024 (J)	
10/17/2017	0.0028 (J)	
2/20/2018	<0.01	
8/8/2018	0.0025 (J)	
2/26/2019		0.003 (J)
6/12/2019		0.0034 (J)
8/20/2019		0.0032 (J)
10/9/2019		0.0026 (J)
3/18/2020		0.0032 (J)
8/28/2020		0.0037 (J)
9/22/2020		0.0056 (J)
3/1/2021		0.0043 (J)
8/18/2021		0.0042 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	0.0057	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0038 (J)	
11/30/2016	0.0054 (J)	
2/23/2017	0.002 (J)	
5/9/2017	<0.01	
7/18/2017	0.0027 (J)	
10/18/2017	0.0047 (J)	
2/21/2018	<0.01	
8/7/2018	0.0016 (J)	
2/26/2019		0.002 (J)
6/13/2019		0.0089 (J)
8/21/2019		0.004 (J)
10/10/2019		0.0021 (J)
3/17/2020		0.0096 (J)
8/28/2020		0.0045 (J)
9/22/2020		0.0091 (J)
3/2/2021		0.012
8/18/2021		0.017

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	0.011	
2/6/2013	0.011	
8/14/2013	0.013	
2/4/2014	0.017	
8/4/2014	0.0085	
2/2/2015	0.0089	
8/3/2015	0.0067 (D)	
2/16/2016	0.0047 (J)	
9/1/2016	0.0132	
11/30/2016	0.0046 (J)	
2/24/2017	0.0108	
5/10/2017	0.0054 (J)	
7/18/2017	0.0047 (J)	
10/17/2017	0.004 (J)	
2/20/2018	<0.01	
8/8/2018	0.0041 (J)	
2/26/2019		0.0027 (J)
6/12/2019		0.0029 (J)
8/19/2019		0.003 (J)
10/10/2019		0.0024 (J)
3/18/2020		0.0046 (J)
8/28/2020		0.0031 (J)
9/22/2020		0.0032 (J)
3/1/2021		0.0041 (J)
8/18/2021		0.0046 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.013	
3/5/2012	0.014	
9/5/2012	0.012	
2/5/2013	0.011	
8/14/2013	0.025	
2/5/2014	0.02	
8/4/2014	0.032	
2/3/2015	0.011	
8/3/2015	0.046 (D)	
2/16/2016	0.022	
9/1/2016	0.0212	
12/1/2016	0.0234	
2/24/2017	0.0154	
5/10/2017	0.0152	
7/17/2017	0.0136	
10/16/2017	0.0242	
2/21/2018	0.0127	
8/7/2018	0.021	
2/26/2019		0.024
6/13/2019		0.027
8/21/2019		0.037
10/9/2019		0.034
3/18/2020		0.028
8/27/2020		0.021
9/23/2020		0.026
3/2/2021		0.019
8/18/2021		0.017

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/3/2015	<0.01	
8/4/2015	<0.01	
2/16/2016	<0.01	
9/1/2016	0.002 (J)	
11/29/2016	0.0017 (J)	
2/23/2017	0.0018 (J)	
5/10/2017	0.0023 (J)	
7/18/2017	0.0046 (J)	
10/18/2017	0.0037 (J)	
2/19/2018	<0.01	
8/6/2018	0.0047 (J)	
2/25/2019		0.0051 (J)
6/13/2019		0.0048 (J)
8/20/2019		0.0039 (J)
10/8/2019		0.0031 (J)
3/17/2020		0.0026 (J)
8/27/2020		0.0027 (J)
9/23/2020		0.0031 (J)
3/3/2021		0.002 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/9/2019		<0.005
3/18/2020		<0.005
9/23/2020		<0.005
3/2/2021		<0.005
8/18/2021		0.00084 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	6E-05 (J)	
7/17/2017	6E-05 (J)	
10/16/2017	7E-05 (J)	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019		<0.001
6/12/2019		<0.001
8/19/2019		5.5E-05 (J)
10/8/2019		<0.001
3/17/2020		<0.001
8/26/2020		<0.001
9/22/2020		<0.001
3/2/2021		<0.001
8/20/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
2/2/2015	<0.001	
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/20/2019		<0.001
10/9/2019		<0.001
3/18/2020		<0.001
8/28/2020		<0.001
9/22/2020		<0.001
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		5.3E-05 (J)
10/9/2019		<0.001
3/18/2020		<0.001
8/27/2020		<0.001
9/23/2020		<0.001
3/2/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0055	
9/11/2007	0.004	
3/20/2008	<0.01	
8/27/2008	0.0029	
3/3/2009	<0.01	
11/18/2009	<0.01	
3/3/2010	<0.01	
9/8/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/12/2013	<0.01	
2/5/2014	<0.01	
8/5/2014	<0.01	
2/4/2015	<0.01	
8/3/2015	0.0013 (J)	
2/16/2016	<0.01	
2/22/2017	<0.01	
5/8/2017	<0.01	
7/17/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019		<0.01
6/12/2019		0.0032 (J)
10/8/2019		<0.01
3/17/2020		<0.01
9/22/2020		<0.01
3/2/2021		<0.01
8/20/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0011 (J)	
2/2/2015	0.0051	
8/4/2015	<0.01 (D)	
2/16/2016	0.00075 (J)	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		<0.01
10/9/2019		<0.01
3/17/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
2/22/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		0.00079 (J)
10/9/2019		<0.01
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.0021 (J)
10/10/2019		0.0011 (J)
3/17/2020		<0.01
9/22/2020		<0.01
3/2/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	<0.01	
8/4/2014	<0.01	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		0.00088 (J)
10/10/2019		<0.01
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	0.0022 (J)	
2/3/2015	<0.01	
8/3/2015	0.0019 (JD)	
2/16/2016	0.0011 (J)	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/17/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		<0.01
10/9/2019		<0.01
3/18/2020		<0.01
9/23/2020		<0.01
3/2/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0015 (J)	
2/3/2015	0.00093 (J)	
8/4/2015	0.0036 (J)	
2/16/2016	0.0011 (J)	
2/23/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	0.0029 (J)	
2/25/2019		<0.01
6/13/2019		<0.01
10/8/2019		<0.01
3/17/2020		0.00098 (J)
9/23/2020		<0.01
3/3/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0081	
9/11/2007	0.0049	
3/20/2008	0.004	
8/27/2008	0.0042	
3/3/2009	0.0058	
11/18/2009	0.0038	
3/3/2010	0.0085	
9/8/2010	0.0065	
3/10/2011	0.0029	
9/8/2011	0.004	
3/5/2012	0.0059	
9/10/2012	0.0052	
2/6/2013	0.0038	
8/12/2013	0.0075	
2/5/2014	0.018 (o)	
8/5/2014	0.0037	
2/4/2015	0.0057	
8/3/2015	0.0043	
2/16/2016	0.0024 (J)	
2/22/2017	0.0042 (J)	
5/8/2017	0.0025 (J)	
7/17/2017	0.0032 (J)	
2/19/2018	<0.01	
8/6/2018	0.0037 (J)	
2/25/2019		0.013
6/12/2019		<0.01
10/8/2019		0.0078 (J)
3/17/2020		<0.01
9/22/2020		0.033
3/2/2021		0.031
8/20/2021		0.014

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.0048	
3/5/2012	0.0038	
9/5/2012	0.0051	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	0.0037	
8/5/2014	0.0019 (J)	
2/2/2015	0.0051	
8/4/2015	0.0017 (JD)	
2/16/2016	0.0015 (J)	
2/23/2017	0.0024 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0015 (J)	
2/21/2018	<0.01	
8/7/2018	0.0044 (J)	
2/26/2019		0.0022 (J)
6/13/2019		<0.01
10/9/2019		0.0078 (J)
3/17/2020		<0.01
9/22/2020		0.0029 (J)
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0047	
1/4/2011	0.0038	
2/17/2011	0.0074	
3/11/2011	0.0038	
3/28/2011	<0.01	
9/7/2011	0.0059	
3/6/2012	0.0032	
9/11/2012	0.0029	
2/6/2013	0.0036	
8/13/2013	0.0066	
2/4/2014	0.011	
8/5/2014	0.0032	
2/2/2015	0.0031	
8/4/2015	0.0017 (J)	
2/17/2016	0.0034	
2/22/2017	0.0024 (J)	
5/10/2017	0.0022 (J)	
7/18/2017	0.0017 (J)	
2/20/2018	<0.01	
8/8/2018	0.0021 (J)	
2/26/2019		0.003 (J)
6/12/2019		0.0019 (J)
10/9/2019		0.0069 (J)
3/18/2020		<0.01
9/22/2020		0.003 (J)
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0064	
3/5/2012	0.0043	
9/5/2012	0.0069	
2/6/2013	<0.01	
8/13/2013	0.011	
2/5/2014	0.026 (o)	
8/4/2014	0.012	
2/3/2015	0.0061	
8/3/2015	0.0037 (D)	
2/16/2016	0.0093	
2/23/2017	0.0031 (J)	
5/9/2017	0.0025 (J)	
7/18/2017	0.0028 (J)	
2/21/2018	0.003 (J)	
8/7/2018	0.0036 (J)	
2/26/2019		0.0033 (J)
6/13/2019		0.0069 (J)
10/10/2019		0.0079 (J)
3/17/2020		<0.01
9/22/2020		0.0036 (J)
3/2/2021		0.0069 (J)
8/18/2021		0.011

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	0.025 (o)	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0034	
8/4/2014	0.0013 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	0.0017 (J)	
2/24/2017	0.0028 (J)	
5/10/2017	0.0014 (J)	
7/18/2017	0.0015 (J)	
2/20/2018	<0.01	
8/8/2018	0.0033 (J)	
2/26/2019		<0.01
6/12/2019		<0.01
10/10/2019		0.006 (J)
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.0064	
3/5/2012	0.0034	
9/5/2012	0.0035	
2/5/2013	0.0027	
8/14/2013	0.0041	
2/5/2014	0.011	
8/4/2014	0.011	
2/3/2015	0.0044	
8/3/2015	0.011 (D)	
2/16/2016	0.014	
2/24/2017	0.0043 (J)	
5/10/2017	0.0042 (J)	
7/17/2017	0.0055 (J)	
2/21/2018	0.0102	
8/7/2018	0.015	
2/26/2019		0.015
6/13/2019		0.015
10/9/2019		0.025
1/21/2020		0.015
3/18/2020		0.023
9/23/2020		0.018
3/2/2021		0.022
8/18/2021		0.026

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.003	
11/18/2009	<0.01	
1/5/2010	0.0027	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	0.0053	
9/5/2012	0.0033	
2/5/2013	<0.01	
8/13/2013	0.0038	
2/4/2014	0.0046	
8/5/2014	0.0019 (J)	
2/3/2015	0.0026	
8/4/2015	0.0035	
2/16/2016	0.002 (J)	
2/23/2017	0.0038 (J)	
5/10/2017	0.0027 (J)	
7/18/2017	0.0024 (J)	
2/19/2018	<0.01	
8/6/2018	0.004 (J)	
2/25/2019		0.0028 (J)
6/13/2019		<0.01
10/8/2019		0.006 (J)
3/17/2020		<0.01
9/23/2020		<0.01
3/3/2021		<0.01
8/18/2021		<0.01

FIGURE E.

Appendix I & II Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Zinc (mg/L)	**GWC-5R**	**0.001961**	**170**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix I & II Trend Test Summary - Prediction Limit Exceedances - All Results

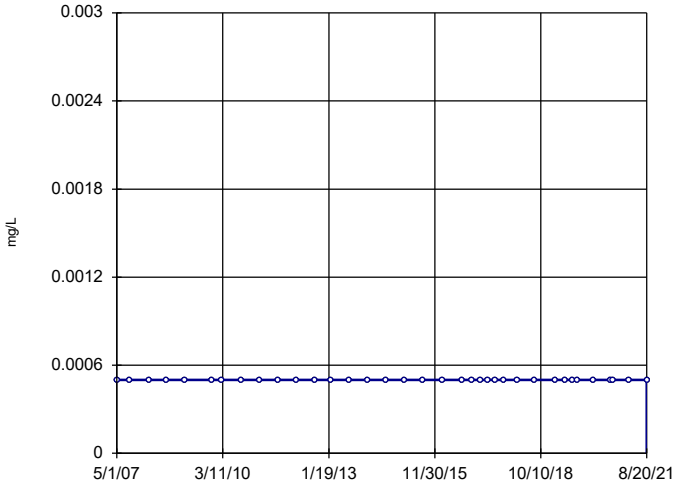
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWC-5R	0.0000398	50	124	No	27	25.93	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-161	No	32	34.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-3R	0	22	124	No	27	74.07	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	-20	-124	No	27	48.15	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-3R	-0.00004976	-59	-124	No	27	40.74	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	0.000108	54	146	No	30	10	n/a	n/a	0.01	NP
Zinc (mg/L)	**GWC-5R**	**0.001961**	**170**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 36

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 191

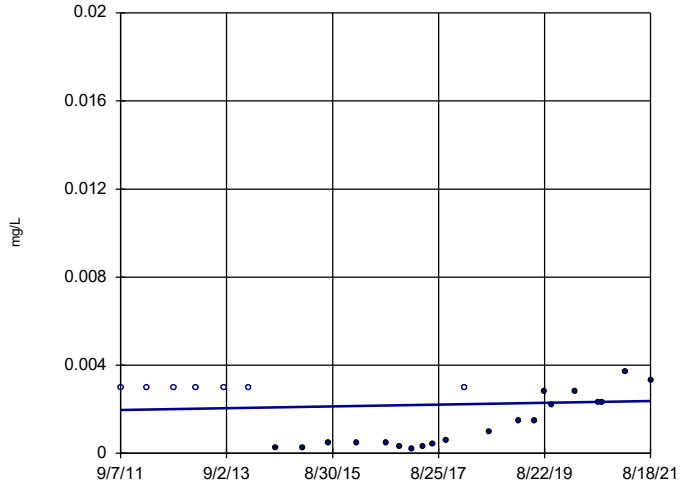
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-5R



n = 27

Slope = 0.0000398 units per year.

Mann-Kendall statistic = 50
critical = 124

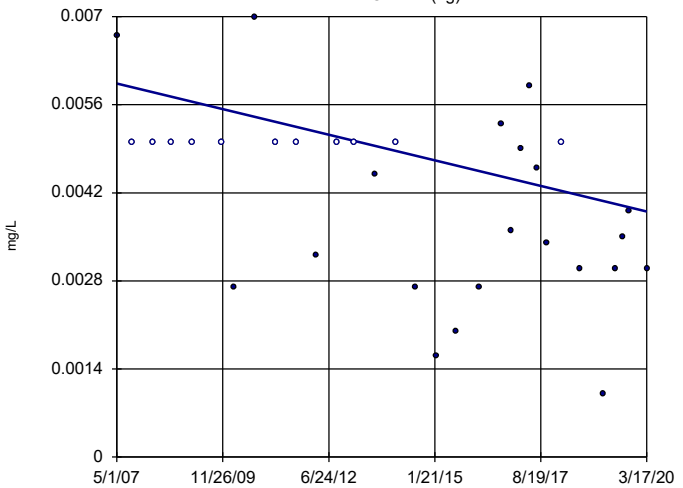
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Beryllium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 32

Slope = -0.0001578 units per year.

Mann-Kendall statistic = -161
critical = -161

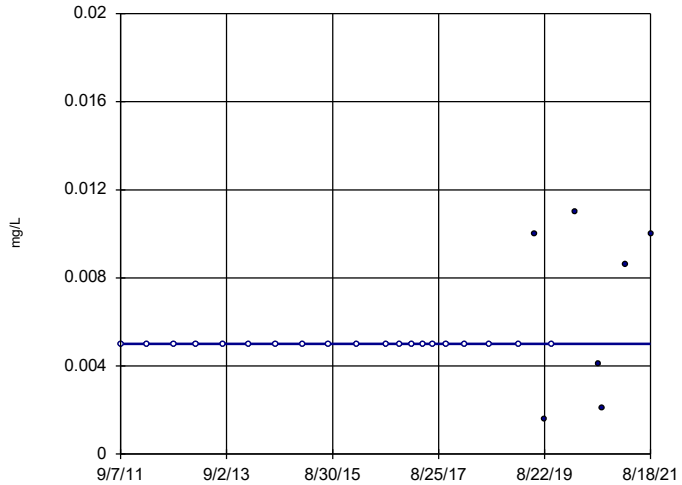
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-3R



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 22
critical = 124

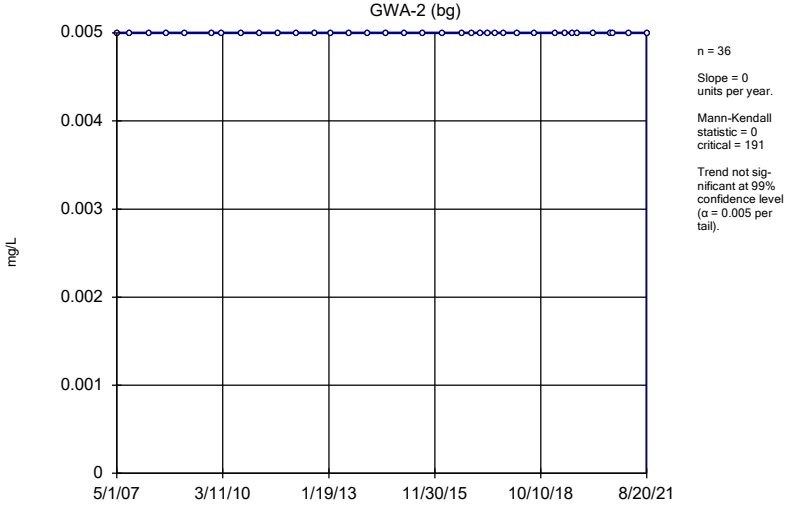
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 36

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 191

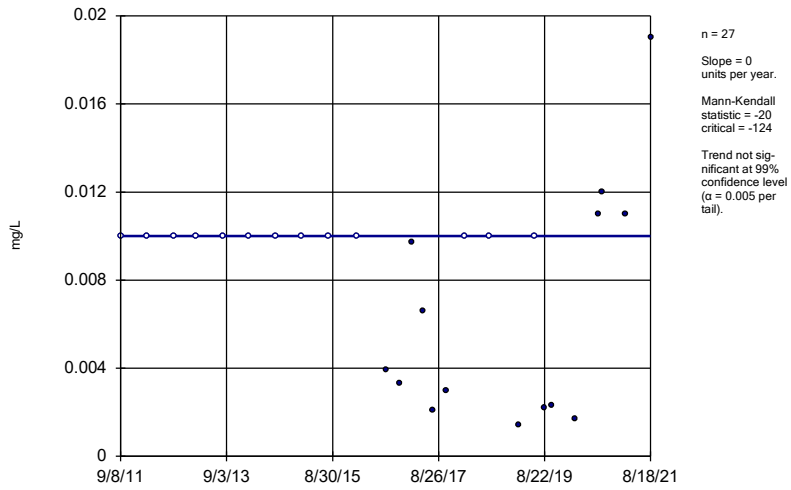
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-1R



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = -20
critical = -124

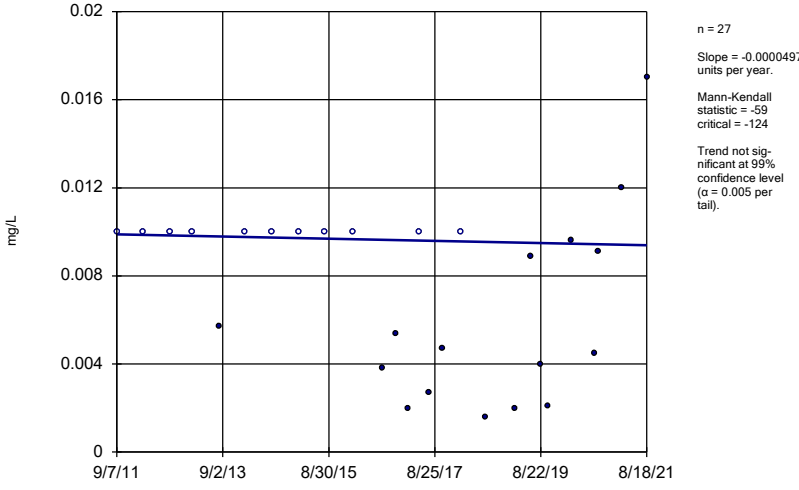
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-3R



n = 27

Slope = -0.00004976 units per year.

Mann-Kendall statistic = -59
critical = -124

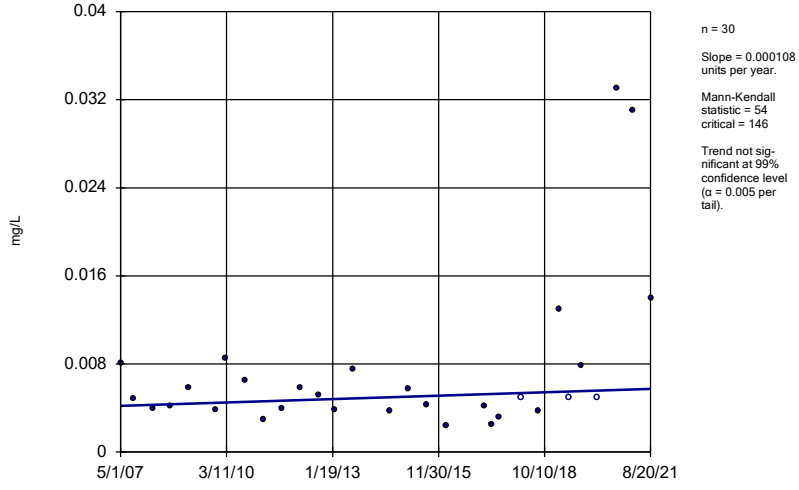
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 30

Slope = 0.000108 units per year.

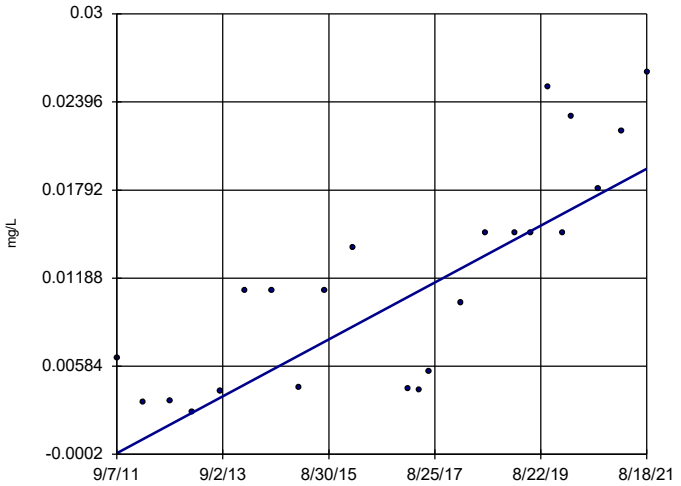
Mann-Kendall statistic = 54
critical = 146

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 23

Slope = 0.001961 units per year.

Mann-Kendall statistic = 170
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE F.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWC-5R**	**5.711**	**4.765**	**8/18/2021**	**4.76**	**Yes**	**9**	**5.238**	**0.1758**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

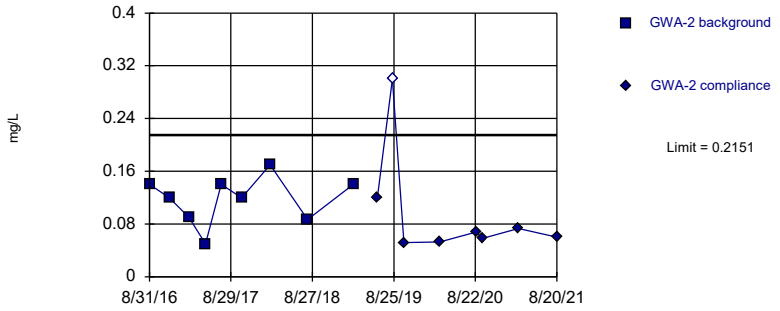
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	8/20/2021	0.06J	No	9	0.1174	0.03628	0	None	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.22	n/a	8/18/2021	0.16	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/18/2021	0.056J	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	7.106	5.427	8/20/2021	5.86	No	21	6.266	0.401	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	5.52	4.49	8/18/2021	5.08	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/18/2021	4.96	No	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.28	4.31	8/18/2021	4.73	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-4R	6.245	4.827	8/18/2021	5.46	No	10	5.536	0.2783	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	**GWC-5R**	**5.711**	**4.765**	**8/18/2021**	**4.76**	**Yes**	**9**	**5.238**	**0.1758**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**
pH (S.U.)	GWC-6R	6.687	5.169	8/18/2021	5.82	No	19	5.928	0.3559	0	None	No	0.0006268	Param Intra 1 of 2

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1174, Std. Dev.=0.03628, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

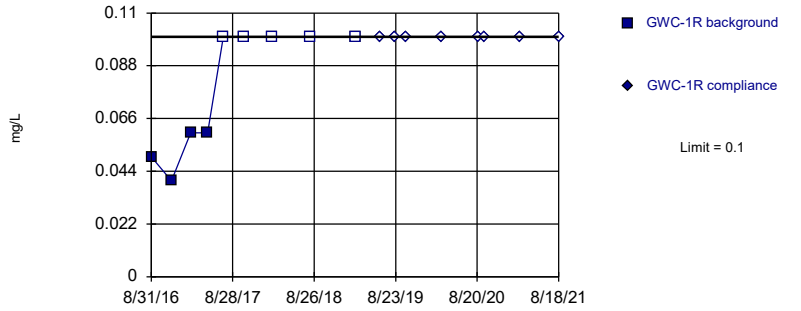
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

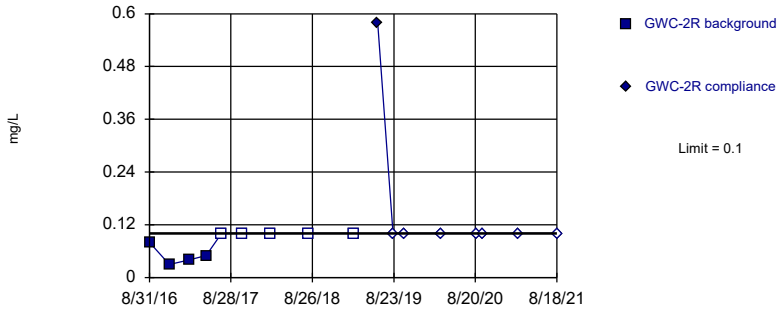
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

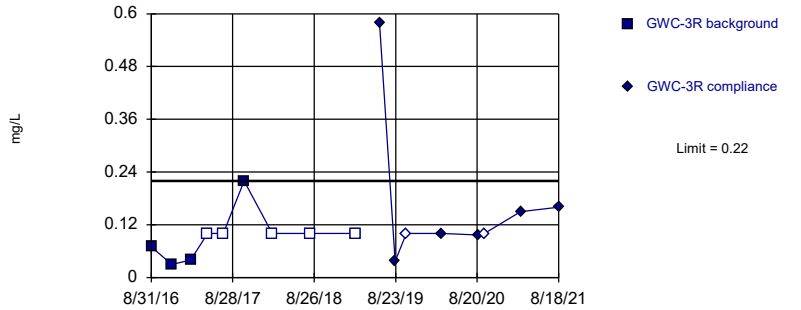
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

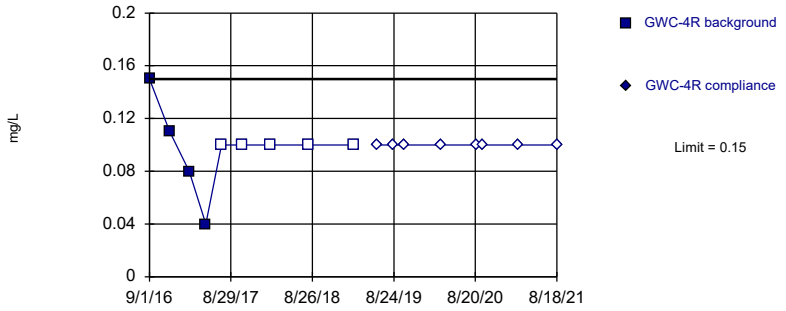
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

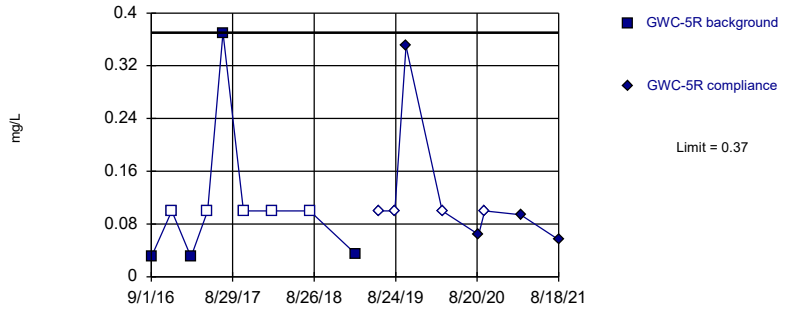
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

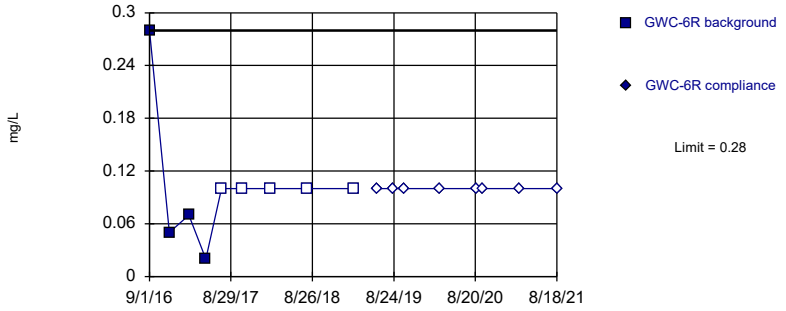
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

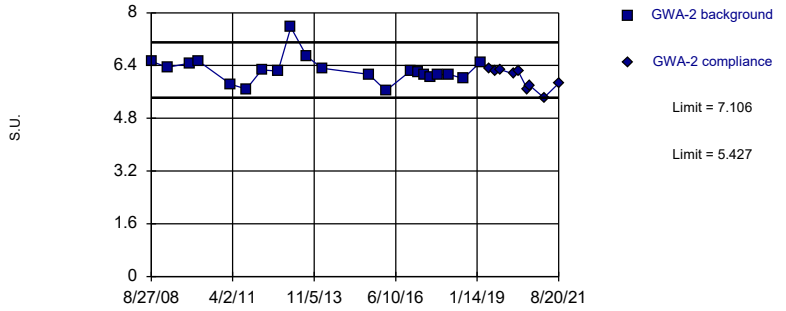
Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



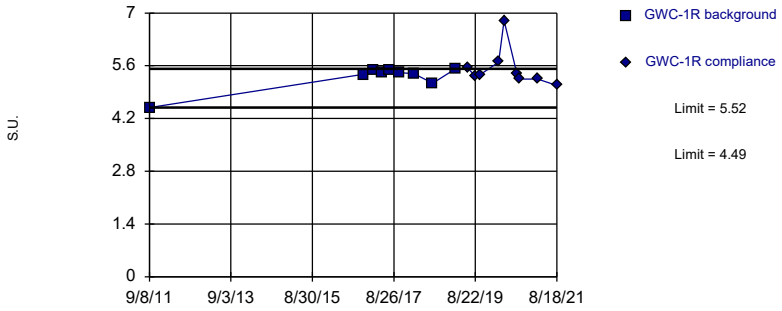
Background Data Summary: Mean=6.266, Std. Dev.=0.401, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8754, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

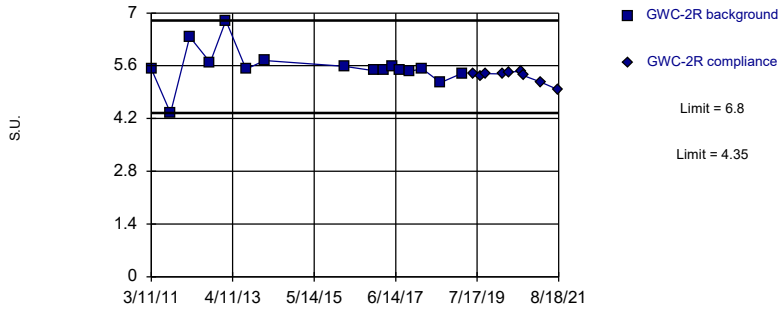
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

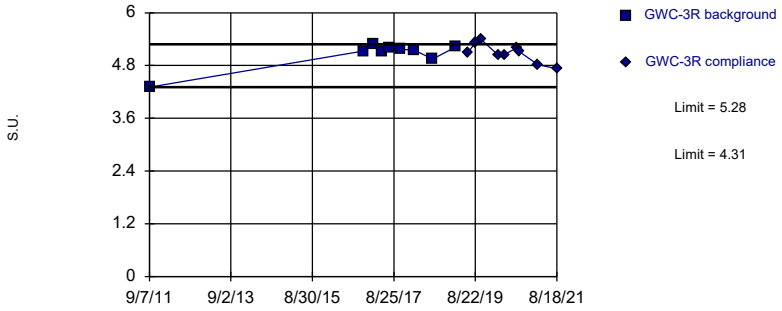
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

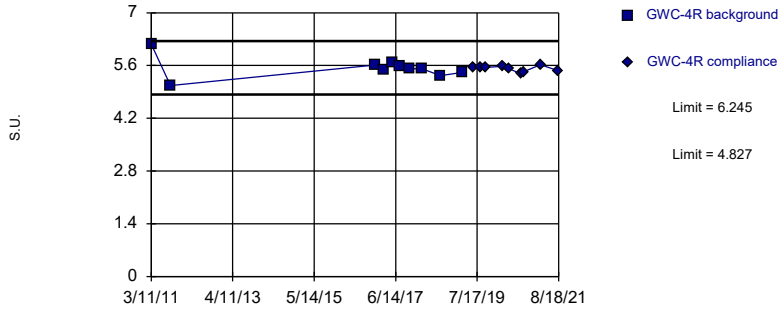
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.536, Std. Dev.=0.2783, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9104, critical = 0.781. Kappa = 2.549 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

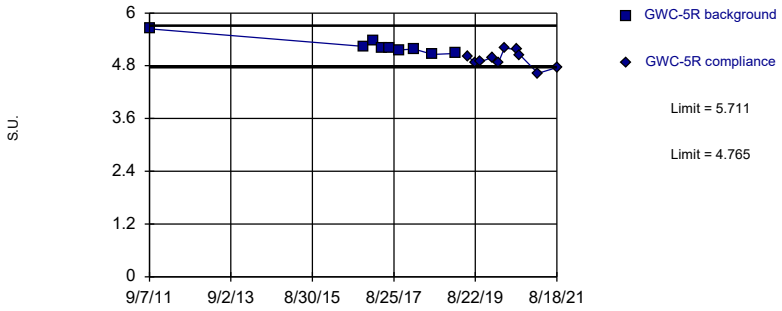
Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.238, Std. Dev.=0.1758, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8341, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

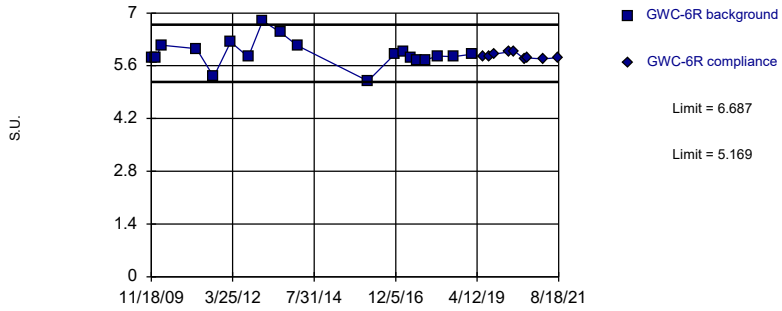
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.928, Std. Dev.=0.3559, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/31/2016	0.14 (J)	
11/28/2016	0.12 (J)	
2/22/2017	0.09 (J)	
5/8/2017	0.05 (J)	
7/17/2017	0.14 (J)	
10/16/2017	0.12 (J)	
2/19/2018	0.17	
8/6/2018	0.087 (J)	
2/25/2019	0.14 (J)	
6/12/2019		0.12 (J)
8/19/2019		<0.3
10/8/2019		0.052 (J)
3/17/2020		0.053 (J)
8/26/2020		0.068 (J)
9/22/2020		0.058 (J)
3/2/2021		0.073 (J)
8/20/2021		0.06 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
8/31/2016	0.05 (J)	
11/29/2016	0.04 (J)	
2/23/2017	0.06 (J)	
5/9/2017	0.06 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019		<0.1
8/20/2019		<0.1
10/9/2019		<0.1
3/17/2020		<0.1
8/27/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
8/31/2016	0.08 (J)	
11/28/2016	0.03 (J)	
2/22/2017	0.04 (J)	
5/10/2017	0.05 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019		0.58
8/20/2019		<0.1
10/9/2019		<0.1
3/18/2020		<0.1
8/28/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
8/31/2016	0.07 (J)	
11/30/2016	0.03 (J)	
2/23/2017	0.04 (J)	
5/9/2017	<0.1	
7/18/2017	<0.1	
10/18/2017	0.22 (J)	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019		0.58
8/21/2019		0.037 (J)
10/10/2019		<0.1
3/17/2020		0.1 (J)
8/28/2020		0.097 (J)
9/22/2020		<0.1
3/2/2021		0.15
8/18/2021		0.16

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
9/1/2016	0.15 (J)	
11/30/2016	0.11 (J)	
2/24/2017	0.08 (J)	
5/10/2017	0.04 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019		<0.1
8/19/2019		<0.1
10/10/2019		<0.1
3/18/2020		<0.1
8/28/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/1/2016	0.03 (J)	
12/1/2016	<0.1	
2/24/2017	0.03 (J)	
5/10/2017	<0.1	
7/17/2017	0.37	
10/16/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	0.035 (J)	
6/13/2019		<0.1
8/21/2019		<0.1
10/9/2019		0.35
3/18/2020		<0.1
8/27/2020		0.064 (J)
9/23/2020		<0.1
3/2/2021		0.094 (J)
8/18/2021		0.056 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/1/2016	0.28 (J)	
11/29/2016	0.05 (J)	
2/23/2017	0.07 (J)	
5/10/2017	0.02 (J)	
7/18/2017	<0.1	
10/18/2017	<0.1	
2/19/2018	<0.1	
8/6/2018	<0.1	
2/25/2019	<0.1	
6/13/2019		<0.1
8/20/2019		<0.1
10/8/2019		<0.1
3/17/2020		<0.1
8/27/2020		<0.1
9/23/2020		<0.1
3/3/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/27/2008	6.53	
3/3/2009	6.35	
11/18/2009	6.47	
3/3/2010	6.53	
3/10/2011	5.83	
9/8/2011	5.69	
3/5/2012	6.27	
9/10/2012	6.23	
2/6/2013	7.56	
8/12/2013	6.68	
2/5/2014	6.32	
8/3/2015	6.13 (D)	
2/16/2016	5.64	
11/28/2016	6.23	
2/22/2017	6.21	
5/8/2017	6.12	
7/17/2017	6.03	
10/16/2017	6.12	
2/19/2018	6.13	
8/6/2018	6.01	
2/25/2019	6.51	
6/12/2019		6.3
8/19/2019		6.23
10/8/2019		6.28
3/17/2020		6.14
5/6/2020		6.24
8/26/2020		5.67
9/22/2020		5.78
3/2/2021		5.42 (D)
8/20/2021		5.86

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	4.49	
11/29/2016	5.37	
2/23/2017	5.5	
5/9/2017	5.41	
7/18/2017	5.5	
10/17/2017	5.42	
2/21/2018	5.39	
8/7/2018	5.14	
2/26/2019	5.52	
6/13/2019		5.55
8/20/2019		5.33
10/9/2019		5.37
3/17/2020		5.7
5/6/2020		6.8
8/27/2020		5.39
9/22/2020		5.25
3/1/2021		5.25
8/18/2021		5.08

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
3/11/2011	5.52	
9/7/2011	4.35	
3/6/2012	6.37	
9/11/2012	5.69	
2/6/2013	6.8	
8/13/2013	5.51	
2/4/2014	5.74	
2/17/2016	5.59	
11/28/2016	5.47	
2/22/2017	5.48	
5/10/2017	5.6	
7/18/2017	5.49	
10/17/2017	5.45	
2/20/2018	5.52	
8/8/2018	5.15	
2/26/2019	5.4	
6/12/2019		5.38
8/20/2019		5.33
10/9/2019		5.39
3/18/2020		5.38
5/7/2020		5.43
8/28/2020		5.45
9/22/2020		5.34
3/1/2021		5.17
8/18/2021		4.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	4.31	
11/30/2016	5.13	
2/23/2017	5.28	
5/9/2017	5.12	
7/18/2017	5.21	
10/18/2017	5.17	
2/21/2018	5.15	
8/7/2018	4.95	
2/26/2019	5.22	
6/13/2019		5.08
8/21/2019		5.32
10/10/2019		5.4
3/17/2020		5.03
5/7/2020		5.05
8/28/2020		5.2
9/22/2020		5.11
3/2/2021		4.82
8/18/2021		4.73

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
3/11/2011	6.16	
9/7/2011	5.07	
11/30/2016	5.61	
2/24/2017	5.47	
5/10/2017	5.68	
7/18/2017	5.59	
10/17/2017	5.52	
2/20/2018	5.51	
8/8/2018	5.33	
2/26/2019	5.42	
6/12/2019		5.54
8/19/2019		5.56
10/10/2019		5.55
3/18/2020		5.58
5/7/2020		5.52
8/28/2020		5.38
9/22/2020		5.43
3/1/2021		5.62
8/18/2021		5.46

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	5.64	
12/1/2016	5.24	
2/24/2017	5.37	
5/10/2017	5.2	
7/17/2017	5.21	
10/16/2017	5.16	
2/21/2018	5.18	
8/7/2018	5.06	
2/26/2019	5.08	
6/13/2019		5.01
8/21/2019		4.88
10/9/2019		4.89
1/21/2020		4.99
3/18/2020		4.88
5/7/2020		5.2
8/27/2020		5.17
9/23/2020		5.04
3/2/2021		4.63
8/18/2021		4.76

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
11/18/2009	5.82	
1/5/2010	5.8	
3/3/2010	6.15	
3/10/2011	6.05	
9/8/2011	5.31	
3/5/2012	6.23	
9/5/2012	5.83	
2/5/2013	6.79	
8/13/2013	6.48	
2/4/2014	6.14	
2/16/2016	5.2	
11/29/2016	5.92	
2/23/2017	5.97	
5/10/2017	5.82	
7/18/2017	5.76	
10/18/2017	5.76	
2/19/2018	5.86	
8/6/2018	5.84	
2/25/2019	5.91	
6/13/2019		5.84
8/20/2019		5.85
10/8/2019		5.91
3/17/2020		5.97
5/6/2020		5.99
8/27/2020		5.77
9/23/2020		5.81
3/3/2021		5.78
8/18/2021		5.82

FIGURE G.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

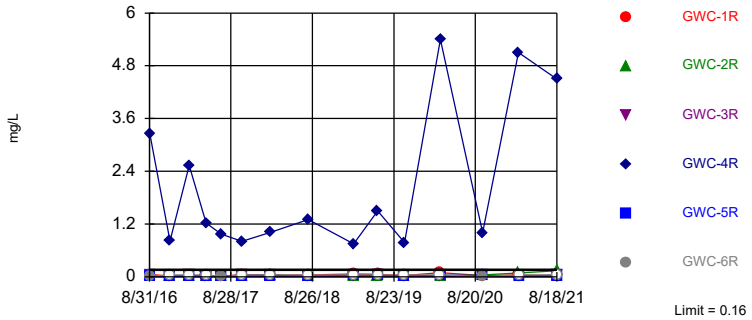
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/18/2021	0.029J	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/18/2021	0.14	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**8/18/2021**	**4.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	8/18/2021	0.021J	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**8/18/2021**	**154**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**8/18/2021**	**45.8**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	8/18/2021	20.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**8/18/2021**	**56.2**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**8/18/2021**	**159**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**8/18/2021**	**74.5**	**Yes**	**312**	**n/a**	**n/a**	**0.9615**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	8.5	n/a	8/18/2021	5.2	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**8.5**	**n/a**	**8/18/2021**	**26.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	8.5	n/a	8/18/2021	4.6	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**8.5**	**n/a**	**8/18/2021**	**150**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	8.5	n/a	8/18/2021	2.3	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	8.5	n/a	8/18/2021	5.4	No	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-1R**	**160**	**n/a**	**8/18/2021**	**675**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**8/18/2021**	**223**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	8/18/2021	114	No	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/18/2021	118	No	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**8/18/2021**	**946**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**8/18/2021**	**345**	**Yes**	**312**	**n/a**	**n/a**	**6.09**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**217.3**	**n/a**	**8/18/2021**	**1200**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**217.3**	**n/a**	**8/18/2021**	**474**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	217.3	n/a	8/18/2021	214	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**217.3**	**n/a**	**8/18/2021**	**630**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**217.3**	**n/a**	**8/18/2021**	**1660**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**217.3**	**n/a**	**8/18/2021**	**682**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-4R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 47.12% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

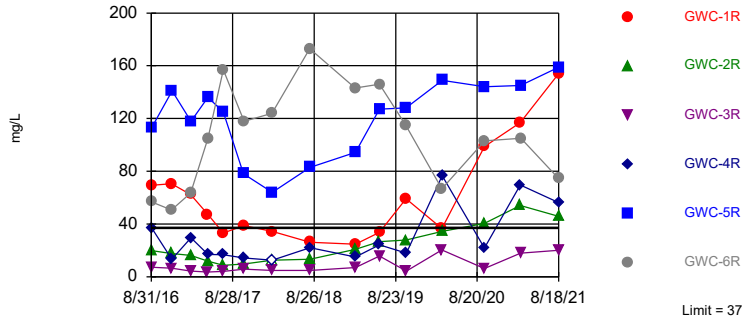
Constituent: Boron Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 0.9615% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

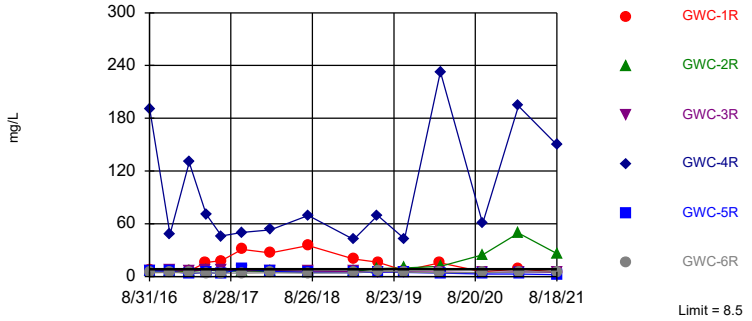
Constituent: Calcium Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

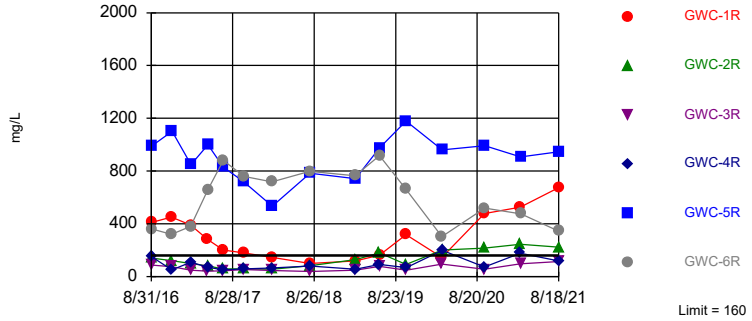
Constituent: Chloride Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



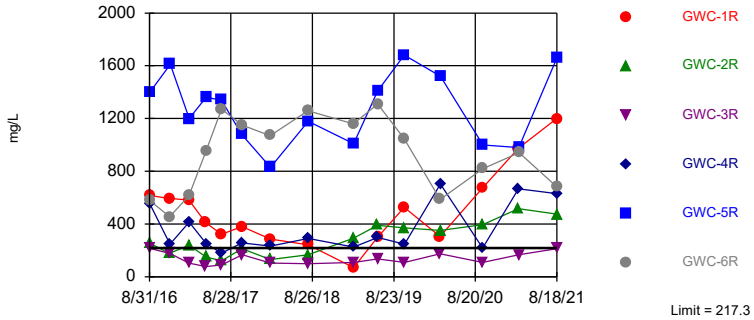
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 6.09% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.03, Std. Dev.=2.584, n=312, 0.641% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.68, critical = 14.07. Kappa = 1.823 (c=7, w=6, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 10/29/2021 3:49 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04		<0.04	<0.04					
7/26/2016		0.0055 (J)			<0.04	0.0047 (J)	0.0177 (J)	0.0097 (J)	0.0052 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				0.01 (J)	<0.04			0.0071 (J)
9/15/2016							0.0214 (J)	0.0102 (J)	
9/16/2016									
9/19/2016				<0.04					
11/1/2016	<0.04	0.0086 (J)		<0.04				<0.04	
11/2/2016						<0.04	<0.04		<0.04
11/3/2016									
11/4/2016			<0.04		<0.04				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017							0.0198 (J)		
1/11/2017	<0.04	0.0074 (J)						<0.04	
1/12/2017					<0.04				0.0076 (J)
1/13/2017						<0.04			
1/16/2017			<0.04	<0.04					
2/21/2017				<0.04					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017		0.008 (J)	<0.04					0.0084 (J)	
3/3/2017									
3/6/2017						<0.04			
3/7/2017					<0.04				0.0089 (J)
3/8/2017							0.0189 (J)		
4/26/2017	<0.04			<0.04			0.0161 (J)	<0.04	
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017						<0.04			0.0061 (J)
5/2/2017					<0.04				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		<0.04				0.0079 (J)
6/28/2017	<0.04							<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/29/2017						<0.04			
6/30/2017				<0.04			0.0173 (J)		
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		0.0072 (J)	0.0071 (J)		<0.04				0.0094 (J)
10/4/2017	<0.04			<0.04				<0.04	
10/5/2017						<0.04	0.0173 (J)		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04						0.0098 (J)
6/7/2018					<0.04	0.0045 (J)		0.004 (J)	
6/8/2018	<0.04						0.013 (J)		
6/11/2018				0.014 (J)					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.0057 (J)	0.005 (J)			0.01 (J)
10/1/2018	<0.04	0.021 (J)	0.0049 (J)				0.015 (J)	<0.04	
10/2/2018				<0.04					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019							0.014 (J)		
4/1/2019	<0.04			<0.04				<0.04	
4/2/2019									
4/3/2019					0.0044 (J)	0.0055 (J)			0.0076 (J)
6/12/2019									
6/13/2019									
9/24/2019		0.0064 (J)	0.0055 (J)		0.0049 (J)				0.01 (J)
9/25/2019	<0.04			<0.04		<0.04	0.018 (J)	0.0054 (J)	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			0.0087 (J)				0.02 (J)		
3/19/2020	0.0053 (J)	0.0085 (J)		0.0052 (J)				0.0073 (J)	
3/24/2020					0.0068 (J)				0.011 (J)
3/25/2020						0.011 (J)			
9/22/2020					0.0053 (J)	<0.04			0.0079 (J)
9/23/2020	0.0073 (J)	<0.04	<0.04					0.012 (J)	
9/24/2020				0.0075 (J)					
9/25/2020							0.02 (J)		
3/1/2021				<0.04					
3/2/2021					0.011 (J)		0.017 (J)		0.0068 (J)
3/3/2021	<0.04	<0.04	<0.04			0.0056 (J)		<0.04	
3/4/2021									
8/18/2021									
8/19/2021		<0.04	<0.04	<0.04			0.018 (J)	<0.04	
8/20/2021									
8/26/2021					<0.04	<0.04			0.009 (J)
8/27/2021	<0.04								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04		<0.04	0.008 (J)				
7/28/2016			<0.04						
8/30/2016						0.0166 (J)			
8/31/2016							0.0315 (J)	0.0315 (J)	0.0553 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)				0.0086 (J)				
9/19/2016		<0.04	<0.04	<0.04					
11/1/2016									
11/2/2016				<0.04					
11/3/2016	0.0082 (J)	<0.04	<0.04		0.0077 (J)				
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016								0.0095 (J)	
11/29/2016									0.0149 (J)
11/30/2016							0.0089 (J)		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04			0.0092 (J)				
1/12/2017									
1/13/2017			<0.04	<0.04					
1/16/2017									
2/21/2017									
2/22/2017								<0.04	
2/23/2017							<0.04		0.0082 (J)
2/24/2017						0.0145 (J)			
3/1/2017	<0.04	<0.04							
3/2/2017					0.0095 (J)				
3/3/2017									
3/6/2017			<0.04	<0.04					
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.04	<0.04	<0.04					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.04				
5/8/2017						0.0141 (J)		0.0084 (J)	
5/9/2017							0.0077 (J)		0.0097 (J)
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			<0.04	<0.04	0.0074 (J)				
6/30/2017									
7/11/2017						0.0131 (J)			
7/17/2017								0.0092 (J)	
7/18/2017							0.0073 (J)		0.0123 (J)
10/3/2017			<0.04						
10/4/2017	0.009 (J)			<0.04	0.0077 (J)				
10/5/2017		<0.04							
10/10/2017						0.0124 (J)			
10/11/2017									
10/12/2017									
10/16/2017								<0.04	
10/17/2017									0.0513
10/18/2017							<0.04		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018									
2/21/2018							0.0399 (J)		0.0378 (J)
4/2/2018						0.013 (J)			
4/3/2018									
6/5/2018			0.0092 (J)						
6/6/2018				0.0049 (J)					
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)				0.01 (J)				
6/28/2018									
8/6/2018								<0.04	
8/7/2018							0.0049 (J)		0.043
8/8/2018									
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0054 (J)	<0.04	0.0096 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
2/26/2019							0.0053 (J)		0.062
3/26/2019									
3/27/2019						0.013 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.011 (J)		0.0066 (J)				
4/3/2019	0.0053 (J)	<0.04		<0.04					
6/12/2019								<0.04	
6/13/2019							<0.04		0.057
9/24/2019			0.018 (J)						
9/25/2019				<0.04	0.0081 (J)				
9/26/2019	0.0072 (J)	0.0062 (J)							
10/8/2019						0.012 (J)		<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
10/9/2019									0.029 (J)
10/10/2019							0.0061 (J)		
3/17/2020						0.023 (J)	0.0099 (J)	0.0051 (J)	0.092 (J)
3/18/2020									
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	0.016 (J)	<0.04	0.0092 (J)				
3/25/2020									
9/22/2020						0.0076 (J)	0.0066 (J)	0.0079 (J)	0.025 (J)
9/23/2020	0.006 (J)	0.021 (J)			0.0066 (J)				
9/24/2020			0.013 (J)	0.0094 (J)					
9/25/2020									
3/1/2021						0.013 (J)			0.046
3/2/2021							0.0071 (J)	<0.04	
3/3/2021	0.0094 (J)	<0.04		<0.04	0.01 (J)				
3/4/2021			0.0079 (J)						
8/18/2021							<0.04		0.029 (J)
8/19/2021						0.011 (J)			
8/20/2021								<0.04	
8/26/2021	<0.04								
8/27/2021		<0.04		<0.04	0.011 (J)				
9/1/2021			<0.04						
9/3/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	0.0305 (J)						
9/1/2016		0.0108 (J)	0.0191 (J)	3.25			
9/13/2016							
9/14/2016					<0.04		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					<0.04		
11/14/2016							
11/28/2016	0.0206 (J)						
11/29/2016		<0.04					
11/30/2016				0.813			
12/1/2016			0.0088 (J)				
12/15/2016					0.0107 (J)		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					<0.04		
2/21/2017							
2/22/2017	0.0192 (J)						
2/23/2017		<0.04					
2/24/2017			0.0067 (J)	2.53			
3/1/2017							
3/2/2017							
3/3/2017					<0.04		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					<0.04		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	0.0179 (J)	<0.04	0.0068 (J)	1.22			
5/26/2017					<0.04		
6/27/2017							
6/28/2017					<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			0.0102 (J)				
7/18/2017	0.0169 (J)	0.0061 (J)		0.97			
10/3/2017					<0.04		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
10/16/2017			0.0066 (J)				
10/17/2017	0.0168 (J)			0.804			
10/18/2017		<0.04					
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018		<0.04					0.146
2/20/2018	<0.04			1.01		<0.04	
2/21/2018			0.0268 (J)				
4/2/2018							
4/3/2018						0.033 (J)	0.12
6/5/2018							
6/6/2018							
6/7/2018					<0.04		
6/8/2018							
6/11/2018							
6/28/2018						0.053	0.16
8/6/2018		<0.04					
8/7/2018			0.012 (J)			0.024 (J)	0.12
8/8/2018	0.017 (J)			1.3			
9/19/2018							
9/24/2018						0.028 (J)	0.099
9/25/2018							
9/26/2018							
10/1/2018					<0.04		
10/2/2018							
2/25/2019		<0.04					
2/26/2019	0.017 (J)		0.033 (J)	0.75			
3/26/2019							0.096
3/27/2019						0.017 (J)	
3/28/2019							
3/29/2019					0.0065 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	0.013 (J)			1.5			
6/13/2019		<0.04	0.03 (J)				
9/24/2019					0.0076 (J)		
9/25/2019							
9/26/2019							
10/8/2019		<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.018 (J)		0.013 (J)			0.017 (J)	0.079
10/10/2019				0.78			
3/17/2020		<0.04					
3/18/2020	0.026 (J)		0.034 (J)	5.4			
3/19/2020					0.0073 (J)		
3/24/2020							0.088 (J)
3/25/2020						0.043 (J)	
9/22/2020	0.046 (J)			1			
9/23/2020		0.0055 (J)	0.028 (J)		<0.04		
9/24/2020						0.037 (J)	0.087 (J)
9/25/2020							
3/1/2021	0.087			5.1			
3/2/2021			0.023 (J)				
3/3/2021		<0.04			<0.04		
3/4/2021						0.033 (J)	0.078
8/18/2021	0.14	<0.04	0.021 (J)	4.5			
8/19/2021							
8/20/2021							
8/26/2021						0.095	
8/27/2021					<0.04		
9/1/2021							
9/3/2021							0.077

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	21	12	2.5						
6/2/2016				1.3	2.4	8.8	1.3	28	33
6/6/2016									
6/7/2016									
7/25/2016	20.3		2.16	1.17					
7/26/2016		11			2.12	7.69	1.24	24.5	32.3
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7				2.18	8.49			31
9/15/2016							1.17	27	
9/16/2016									
9/19/2016				1.05					
11/1/2016	18.4	11		1.14				25.6	
11/2/2016						7.83	1.23		30.9
11/3/2016									
11/4/2016			2.67		2.17 (J)				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017							1.24		
1/11/2017	20.3	11.2						27.5	
1/12/2017					2.37				35.7
1/13/2017						8.08			
1/16/2017			2.45	1.23					
2/21/2017				1.25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		11	2.57					27.5	
3/3/2017									
3/6/2017						8.64			
3/7/2017					2.34				32.7
3/8/2017							1.21		
4/26/2017	25.6			1.03			1.14	30.4	
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017						13.4			37
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36		2.13				36.5
6/28/2017	23.9							29.8	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/29/2017						8.81			
6/30/2017				1.13			1.24		
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		14	2.21		2.15				30.9
10/4/2017	22.1			1.09				29.7	
10/5/2017						9.29	1.11		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3						26.2
6/7/2018					2.3	8.2		29.1	
6/8/2018	21.9 (J)						1.1		
6/11/2018				1.1					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	9.5 (J)			25.8
10/1/2018	19.7	15.1	1.8				0.99	26.9	
10/2/2018				1.1					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		13.3 (J)	2.2						
3/29/2019							1.1		
4/1/2019	20.4 (J)			1.3				30.1	
4/2/2019									
4/3/2019					2.8	8.4			24.7 (J)
6/12/2019									
6/13/2019									
9/24/2019		15.8	2.3		2.5				25.8
9/25/2019	22.4			1.1		9.5	1.1	29.5	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			2.1				1.1		
3/19/2020	21.9	15		1.2				31.5	
3/24/2020					2.5				26.1
3/25/2020						10.5			
9/22/2020					2.6	9.6			27.2
9/23/2020	23.6	14.1	1.8					28.6	
9/24/2020				1.1					
9/25/2020							1.3		
3/1/2021				1.2					
3/2/2021					2.6		1.2		1.6
3/3/2021	20.6	14.1	1.8			7.7		29.8	
3/4/2021									
8/18/2021									
8/19/2021		14.2	2	1.2			1.2	28.1	
8/20/2021									
8/26/2021					2.5	7.6			25.2
8/27/2021	24.7								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			3.7	2.3	2.2				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73		2.08	2				
7/28/2016			3.15						
8/30/2016						20.9			
8/31/2016							7.23	9.31	69.4
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5				1.97				
9/19/2016		4.76	3.17	1.97					
11/1/2016									
11/2/2016				2.13					
11/3/2016	1.31	5.25	3.4		1.99				
11/4/2016									
11/14/2016						18.6			
11/28/2016								9.47 (B)	
11/29/2016									70.6 (B)
11/30/2016							6.43 (B)		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74			2.28				
1/12/2017									
1/13/2017			4.98	2.45					
1/16/2017									
2/21/2017									
2/22/2017								10.4	
2/23/2017							4.25		62.4
2/24/2017						16.1			
3/1/2017	1.26	5.37							
3/2/2017					2.15				
3/3/2017									
3/6/2017			6.28	2.48					
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	6.65	2.3					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					1.95				
5/8/2017						14.6		14.2	
5/9/2017							3.56		47.4
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			6.04	2.54	2.02				
6/30/2017									
7/11/2017						14.3			
7/17/2017								14.1	
7/18/2017							4.16		33.2
10/3/2017			8.28						
10/4/2017	1.1			2.25	2.03				
10/5/2017		5.28							
10/10/2017						12.1			
10/11/2017									
10/12/2017									
10/16/2017								13.6	
10/17/2017									38.7
10/18/2017							5.67		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018									
2/21/2018							4.76		34.3
4/2/2018						<25			
4/3/2018									
6/5/2018			9.1						
6/6/2018				2.3					
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4				2.1				
6/28/2018									
8/6/2018								11.4 (J)	
8/7/2018							4.7		26.2
8/8/2018									
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	1	4.6	10.4 (J)	2.3	2.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
2/26/2019							7.1		24.7 (J)
3/26/2019									
3/27/2019						10.8 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			8.8		2.5				
4/3/2019	1.2	5.3		2.9					
6/12/2019								18.9	
6/13/2019							15.7		33.8
9/24/2019			7.7						
9/25/2019				2.4	2.6				
9/26/2019	1.1	4.9							
10/8/2019						9.7		28.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
10/9/2019									59.1
10/10/2019							4.3		
3/17/2020						14.8	20.3	24.3	36.7
3/18/2020									
3/19/2020									
3/24/2020	1	5.3	6	2.6	2.7				
3/25/2020									
9/22/2020						10.1	6.2	31	98.8
9/23/2020	0.91 (J)	5.2			2.6				
9/24/2020			7.8	2.6					
9/25/2020									
3/1/2021						10.3			117
3/2/2021							17.9	34.2	
3/3/2021	0.96 (J)	5.2		2.4	2.5				
3/4/2021			8.7						
8/18/2021							20.2		154
8/19/2021						9.6			
8/20/2021								26.5	
8/26/2021	0.98 (J)								
8/27/2021		5.1		2.4	2.7				
9/1/2021			9.5						
9/3/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	19.9						
9/1/2016		56.8	113	37.1			
9/13/2016							
9/14/2016					23.5		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					23.7		
11/14/2016							
11/28/2016	17.7 (B)						
11/29/2016		50.7 (B)					
11/30/2016				13.4 (B)			
12/1/2016			141 (B)				
12/15/2016					23.1		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					23.3		
2/21/2017							
2/22/2017	16.2						
2/23/2017		63.5					
2/24/2017			118	29.5			
3/1/2017							
3/2/2017							
3/3/2017					25.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					30.7		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	11.8	105	136	17			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			125				
7/18/2017	8.69	157		16.8			
10/3/2017					26.7		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.74	
10/12/2017							2.9
10/16/2017			78.2				
10/17/2017	9.77			14.3			
10/18/2017		118					
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018		124					<25
2/20/2018	<25			<25		1.71	
2/21/2018			64				
4/2/2018							
4/3/2018						1.4	6.3
6/5/2018							
6/6/2018							
6/7/2018					25		
6/8/2018							
6/11/2018							
6/28/2018						1.4	6.7
8/6/2018		173					
8/7/2018			83			1.2	6.3
8/8/2018	13.4 (J)			22.1 (J)			
9/19/2018							
9/24/2018						1.1	5.7
9/25/2018							
9/26/2018							
10/1/2018					25		
10/2/2018							
2/25/2019		143					
2/26/2019	20.9 (J)		94.4	15.1 (J)			
3/26/2019							5.6
3/27/2019						1.5	
3/28/2019							
3/29/2019					23.5 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	26.6			24.2			
6/13/2019		146	127				
9/24/2019					26.4		
9/25/2019							
9/26/2019							
10/8/2019		115					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	27.8		128			2.4	4.9
10/10/2019				18			
3/17/2020		66.8					
3/18/2020	34.5		149	76.6			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	40.5			21.8			
9/23/2020		103	144		26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	54.1			69.5			
3/2/2021			145				
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	45.8	74.5	159	56.2			
8/19/2021							
8/20/2021							
8/26/2021						14.1	
8/27/2021					22.6		
9/1/2021							
9/3/2021							5.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				1.9	4.3	3.7	4.1	1.4	7.2
6/6/2016									
6/7/2016									
7/25/2016	1.3		1.4	1.7					
7/26/2016		1.2			4.4	3.6	4	1.6	6.6
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3				3.8	3.4			6.6
9/15/2016							4.2	1.5	
9/16/2016									
9/19/2016				1.6					
11/1/2016	1.4	1.3		1.8				1.7	
11/2/2016						4.5	4.9		7.6
11/3/2016									
11/4/2016			1.6		4.8				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017							4.1		
1/11/2017	1.1	1.1						1.2	
1/12/2017					3.8				6.8
1/13/2017						4.2			
1/16/2017			1.4	1.7					
2/21/2017				1.7					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1	1.3					1.2	
3/3/2017									
3/6/2017						3.6			
3/7/2017					4.5				6.8
3/8/2017							4.2		
4/26/2017	1.1			1.7			4.1	1.2	
4/27/2017		1	1.3						
4/28/2017									
5/1/2017						4.3			7.2
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4		4.3				7
6/28/2017	1.2							1.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/29/2017						4.2			
6/30/2017				1.8			3.7		
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		1.1	1.7		4.2				6.5
10/4/2017	1.2			1.8				1.5	
10/5/2017						4.7	3.8		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
6/6/2018			1.4						4.7
6/7/2018					4.5	4.4		1.2	
6/8/2018	1.2						3.4		
6/11/2018				2					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.1	4.8			4.8
10/1/2018	1.2	1.1	1.4				3.8	1.5	
10/2/2018				1.8					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.4	1.5						
3/29/2019							4.2		
4/1/2019	1.1			1.7				1.2	
4/2/2019									
4/3/2019					4.2	4.3			4
6/12/2019									
6/13/2019									
9/24/2019		1.1	1.3		4.5				3.7
9/25/2019	1.1			1.6		4.5	4.8	1.1	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			1.4				5.2		
3/19/2020	1.1	1.1		1.8				1.2	
3/24/2020					4.3				3.5
3/25/2020						3.9			
9/22/2020					4.2	4.5			3.6
9/23/2020	1	0.99 (J)	1.2					1.1	
9/24/2020				1.5					
9/25/2020							5.3		
3/1/2021				1.6					
3/2/2021					4.3		4.9		3.2
3/3/2021	0.99 (J)	0.96 (J)	1.2			4.1		1.1	
3/4/2021									
8/18/2021									
8/19/2021		1.1	1.3	1.6			5	1.1	
8/20/2021									
8/26/2021					4.3	4.4			3.4
8/27/2021	1.1								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			2.8	1.9	4.5				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7		1.9	4.5				
7/28/2016			2.6						
8/30/2016						5.2			
8/31/2016							6.7	4	7.6
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1				4.5				
9/19/2016		7	2.4	1.9					
11/1/2016									
11/2/2016				2.6					
11/3/2016	7.4	7.5	2.9		5.4				
11/4/2016									
11/14/2016						6.4			
11/28/2016								4.2	
11/29/2016									5.8
11/30/2016							7.8		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5			4.7				
1/12/2017									
1/13/2017			2.5	2.3					
1/16/2017									
2/21/2017									
2/22/2017								3.7	
2/23/2017							6.5		6.2
2/24/2017						5.5			
3/1/2017	6	6.9							
3/2/2017					4.8				
3/3/2017									
3/6/2017			2.1	1.9					
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2.1	2					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					4.6				
5/8/2017						5.8		4.2	
5/9/2017							7.2		16
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			2.8	2.6	4.5				
6/30/2017									
7/11/2017						5.8			
7/17/2017								3.8	
7/18/2017							7.7		18
10/3/2017			2.2						
10/4/2017	6.8			2.6	4.7				
10/5/2017		7							
10/10/2017						5.9			
10/11/2017									
10/12/2017									
10/16/2017								4.2	
10/17/2017									31
10/18/2017							6.5		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								4.3	
2/20/2018									
2/21/2018							6.7		27
4/2/2018						4.8			
4/3/2018									
6/5/2018			1.7						
6/6/2018				2.7					
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8				4.9				
6/28/2018									
8/6/2018								3.8	
8/7/2018							6.3		35.4
8/8/2018									
9/19/2018						4			
9/24/2018									
9/25/2018	7.8	7.9	2.2	3.6	5.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								4.1	
2/26/2019							5.7		20
3/26/2019									
3/27/2019						4.3			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		4.8				
4/3/2019	6.3	6.9		3.1					
6/12/2019								4.7	
6/13/2019							5		16.4
9/24/2019			3.1						
9/25/2019				2.8	5.7				
9/26/2019	7.1	7							
10/8/2019						4.4		5.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
10/9/2019									6.9
10/10/2019							5.3		
3/17/2020						4.1	5.2	4.8	15.5
3/18/2020									
3/19/2020									
3/24/2020	6.8	7	2.8	2.7	5				
3/25/2020									
9/22/2020						4.2	4.2	4.2	5.5
9/23/2020	7.2	7.2			6.6				
9/24/2020			2	2.7					
9/25/2020									
3/1/2021						3.7			8.6
3/2/2021							5.5	4.1	
3/3/2021	7.2	7		2.7	7.1				
3/4/2021			1.8						
8/18/2021							4.6		5.2
8/19/2021						3.5			
8/20/2021								5.2	
8/26/2021	7.3								
8/27/2021		7.4		2.8	8.5				
9/1/2021			1.8						
9/3/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	6.3						
9/1/2016		4.4	6.6	190			
9/13/2016							
9/14/2016					1.1		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					1.4		
11/14/2016							
11/28/2016	6.7						
11/29/2016		4.8					
11/30/2016				48			
12/1/2016			6				
12/15/2016					2.9		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					0.98		
2/21/2017							
2/22/2017	5.7						
2/23/2017		4.4					
2/24/2017			3.4	130			
3/1/2017							
3/2/2017							
3/3/2017					1.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					0.91		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	7.1	3.9	4.5	71			
5/26/2017					0.93		
6/27/2017							
6/28/2017					1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			3.2				
7/18/2017	6	4		46			
10/3/2017					1.2		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.4	
10/12/2017							3.8
10/16/2017			9				
10/17/2017	6.1			50			
10/18/2017		4.1					
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018		4.4					4.6
2/20/2018	5.8			53.1		2	
2/21/2018			5.6				
4/2/2018							
4/3/2018						3.3	5.9
6/5/2018							
6/6/2018							
6/7/2018					1		
6/8/2018							
6/11/2018							
6/28/2018						2.1	5
8/6/2018		3.9					
8/7/2018			4.7			1.2	4.3
8/8/2018	4.7			69.3			
9/19/2018							
9/24/2018						1.3	4.9
9/25/2018							
9/26/2018							
10/1/2018					1.1		
10/2/2018							
2/25/2019		4.4					
2/26/2019	5.7		4.2	42.2			
3/26/2019							4.4
3/27/2019						1.4	
3/28/2019							
3/29/2019					1.2		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	9.1			69.5			
6/13/2019		6.2	5.5				
9/24/2019					0.95 (J)		
9/25/2019							
9/26/2019							
10/8/2019		4.9					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	9.8		4.5			2.1	5.1
10/10/2019				42.8			
3/17/2020		4.4					
3/18/2020	11.7		3.8	233			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	24.7			60.2			
9/23/2020		4.7	3		0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	49.6			194			
3/2/2021			2.9				
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	26.2	5.4	2.3	150			
8/19/2021							
8/20/2021							
8/26/2021						7.2	
8/27/2021					0.99 (J)		
9/1/2021							
9/3/2021							5.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	12	5	4.2						
6/2/2016				1.3	1.9	8	6.6	5.8	20
6/6/2016									
6/7/2016									
7/25/2016	8.4		3.7	1.2					
7/26/2016		5.4			1.8	7.7	6.1	6.7	20
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6				1.8	7.5			19
9/15/2016							6.1	6	
9/16/2016									
9/19/2016				1.2					
11/1/2016	8.9	3.9		1.3				4.9	
11/2/2016						8.2	6.3		20
11/3/2016									
11/4/2016			5		2				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017							5.9		
1/11/2017	8.6	3.7						4.5	
1/12/2017					1.9				19
1/13/2017						8.1			
1/16/2017			7.9	<1					
2/21/2017				1.4					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4					4.4	
3/3/2017									
3/6/2017						8			
3/7/2017					2.1				20
3/8/2017							7		
4/26/2017	11			1.4			7	5.1	
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017						8.4			20
5/2/2017					2				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4		2.1				18
6/28/2017	12							5.4	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/29/2017						9.2			
6/30/2017				<1			6.5		
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		6.6	5.9		2.3				16
10/4/2017	12			1.4				6.2	
10/5/2017						9.6	7.9		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		6.4							
6/6/2018			4.4						8.3
6/7/2018					2	8.5		6.7	
6/8/2018	9.6						6.4		
6/11/2018				1.1					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	10.2			7.9
10/1/2018	9.1	5.6	4				6.8	7.1	
10/2/2018				1					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		8	4.3						
3/29/2019							7.3		
4/1/2019	8.5			0.96 (J)				7.2	
4/2/2019									
4/3/2019					2.1	8.5			7
6/12/2019									
6/13/2019									
9/24/2019		5.3	4.3		2.4				5.5
9/25/2019	13.8			0.81 (J)		8.5	6.6	7	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			5.3				8.1		
3/19/2020	12.9	10		1.6				9	
3/24/2020					2.1				5.9
3/25/2020						8.8			
9/22/2020					2.1	8.2			5.5
9/23/2020	16.8	8.1	3.4					6.9	
9/24/2020				0.69 (J)					
9/25/2020							6.1		
3/1/2021				0.88 (J)					
3/2/2021					2.3		6		2.6
3/3/2021	9.6	9	4.4			7.8		7	
3/4/2021									
8/18/2021									
8/19/2021		8.9	4.9	1			6.7	7.5	
8/20/2021									
8/26/2021					2.4	8.5			6
8/27/2021	18.2								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			5.2	<1	4.4				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7		0.08 (J)	4.7				
7/28/2016			5.1						
8/30/2016						160			
8/31/2016							87	29	410
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7				4.8				
9/19/2016		1.8	4.8	0.08 (J)					
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	1.9	0.69 (J)	5		5.3				
11/4/2016									
11/14/2016						150			
11/28/2016								36	
11/29/2016									450
11/30/2016							76		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1			5.2				
1/12/2017									
1/13/2017			4.3	<1					
1/16/2017									
2/21/2017									
2/22/2017								43	
2/23/2017							47		390
2/24/2017						120			
3/1/2017	<1	1.8							
3/2/2017					5				
3/3/2017									
3/6/2017			4.5	<1					
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	4.9	<1					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5				
5/8/2017						120		60	
5/9/2017							41		280
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			5.5	<1	5.2				
6/30/2017									
7/11/2017						110			
7/17/2017								63	
7/18/2017							44		200
10/3/2017			5.8						
10/4/2017	1.7			<1	5.3				
10/5/2017		1.6							
10/10/2017						93			
10/11/2017									
10/12/2017									
10/16/2017								62	
10/17/2017									180
10/18/2017							53		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018									
2/21/2018							46.7		146
4/2/2018						88.8			
4/3/2018									
6/5/2018			6.1						
6/6/2018				0.049 (J)					
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)				5.2				
6/28/2018									
8/6/2018								42.1	
8/7/2018							38.8		100
8/8/2018									
9/19/2018						75			
9/24/2018									
9/25/2018	1.5	1	7	0.13 (J)	6.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
2/26/2019							49.3		118
3/26/2019									
3/27/2019						65.9			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			3.8		5.1				
4/3/2019	1.3	0.82 (J)		0.12 (J)					
6/12/2019								83.4	
6/13/2019							77.1		163
9/24/2019			1						
9/25/2019				<1	5.5				
9/26/2019	1	0.64 (J)							
10/8/2019						52.3		128	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
10/9/2019									318
10/10/2019							48		
3/17/2020						71.6	95.2	98.6	145
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	3	<1	5.4				
3/25/2020									
9/22/2020						51.5	55.1	145	478
9/23/2020	1.1	0.53 (J)			5.1				
9/24/2020			3.6	<1					
9/25/2020									
3/1/2021						51.6			525
3/2/2021							95.5	156	
3/3/2021	1	<1		<1	5.2				
3/4/2021			4.5						
8/18/2021							114		675
8/19/2021						52.6			
8/20/2021								121	
8/26/2021	1.2								
8/27/2021		0.59 (J)		<1	5.3				
9/1/2021			5						
9/3/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	140						
9/1/2016		360	990	150			
9/13/2016							
9/14/2016					9.4		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					13		
11/14/2016							
11/28/2016	120						
11/29/2016		320					
11/30/2016				50			
12/1/2016			1100				
12/15/2016					1.8		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					11		
2/21/2017							
2/22/2017	100						
2/23/2017		380					
2/24/2017			850	110			
3/1/2017							
3/2/2017							
3/3/2017					8.8		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					10		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	80	660	1000	70			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			830				
7/18/2017	57	880		50			
10/3/2017					7.9		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						20	
10/12/2017							17
10/16/2017			720				
10/17/2017	59			58			
10/18/2017		760					
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018		718					57.2
2/20/2018	55.9			64.6		20.6	
2/21/2018			533				
4/2/2018							
4/3/2018						24.5	49.4
6/5/2018							
6/6/2018							
6/7/2018					8.8		
6/8/2018							
6/11/2018							
6/28/2018						22	43.8
8/6/2018		797					
8/7/2018			784			20.7	40.5
8/8/2018	81.1			79.5			
9/19/2018							
9/24/2018						21.2	39.7
9/25/2018							
9/26/2018							
10/1/2018					9.1		
10/2/2018							
2/25/2019		763					
2/26/2019	129		742	55.8			
3/26/2019							34.3
3/27/2019						17.7	
3/28/2019							
3/29/2019					9		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	180			92.8			
6/13/2019		918	976				
9/24/2019					9.1		
9/25/2019							
9/26/2019							
10/8/2019		664					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	91.2		1180			15	27.9
10/10/2019				68.7			
3/17/2020		303					
3/18/2020	200		960	199			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	216			72.1			
9/23/2020		518	992		11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	244			177			
3/2/2021			906				
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	223	345	946	118			
8/19/2021							
8/20/2021							
8/26/2021						19.2	
8/27/2021					16.7		
9/1/2021							
9/3/2021							21.3

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	150	120	54						
6/2/2016				36	66	96	46	130	160
6/6/2016									
6/7/2016									
7/25/2016	135		48	50					
7/26/2016		94			78	92	54	141	177
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		105	67						
9/14/2016	127				73	102			187
9/15/2016							54	153	
9/16/2016									
9/19/2016				35					
11/1/2016	75	44		<25				92	
11/2/2016						115	71		181
11/3/2016									
11/4/2016			60		75				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017							45		
1/11/2017	148	107						159	
1/12/2017					86				202
1/13/2017						67			
1/16/2017			65	47					
2/21/2017				<25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		98	61					117	
3/3/2017									
3/6/2017						159			
3/7/2017					108				257
3/8/2017							178		
4/26/2017	92			55			52	181	
4/27/2017		116	31						
4/28/2017									
5/1/2017						107			165
5/2/2017					103				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		89	42		73				189
6/28/2017	126							169	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/29/2017						79			
6/30/2017				42			45		
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		119	58		89				170
10/4/2017	147			31				141	
10/5/2017						95	40		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018			96						151
6/7/2018					142	90		95	
6/8/2018	158						114		
6/11/2018				59					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					86	116			144
10/1/2018	138	117	60				50	165	
10/2/2018				57					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019							63		
4/1/2019	19 (J)			54				149	
4/2/2019									
4/3/2019					83	111			142
6/12/2019									
6/13/2019									
9/24/2019		124	54		79				129
9/25/2019	159			51		117	64	157	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			35				57		
3/19/2020	148	116		47				146	
3/24/2020					68				139
3/25/2020						146			
9/22/2020					75	83			104
9/23/2020	155	108	15					157	
9/24/2020				51					
9/25/2020							54		
3/1/2021				23					
3/2/2021					67		67		52
3/3/2021	111	99	39			80		137	
3/4/2021									
8/18/2021									
8/19/2021		105	44	50			54	144	
8/20/2021									
8/26/2021					86	93			123
8/27/2021	155								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			60	38	28				
7/25/2016									
7/26/2016									
7/27/2016	35	94		74	74				
7/28/2016			81						
8/30/2016						319			
8/31/2016							216	209	616
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35				67				
9/19/2016		92	68	45					
11/1/2016									
11/2/2016				53					
11/3/2016	48	104	61		41				
11/4/2016									
11/14/2016						280			
11/28/2016								102	
11/29/2016									594
11/30/2016							177 (B)		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133			104				
1/12/2017									
1/13/2017			76	46					
1/16/2017									
2/21/2017									
2/22/2017								164	
2/23/2017							105		581
2/24/2017						162			
3/1/2017	79	119							
3/2/2017					77				
3/3/2017									
3/6/2017			167	164					
3/7/2017									
3/8/2017									
4/26/2017	36	162	50	34					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					142				
5/8/2017						194		145	
5/9/2017							77		410
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	45	98							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			94	68	53				
6/30/2017									
7/11/2017						193			
7/17/2017								185	
7/18/2017							89		322
10/3/2017			149						
10/4/2017	45			54	61				
10/5/2017		104							
10/10/2017						175			
10/11/2017									
10/12/2017									
10/16/2017								218	
10/17/2017									381
10/18/2017							166		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018									
2/21/2018							105		285
4/2/2018						192			
4/3/2018									
6/5/2018			109						
6/6/2018				79					
6/7/2018		68							
6/8/2018									
6/11/2018	74				70				
6/28/2018									
8/6/2018								158	
8/7/2018							99		242
8/8/2018									
9/19/2018						186			
9/24/2018									
9/25/2018	63	109	122	73	86				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
2/26/2019							109		69
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			134		72				
4/3/2019	63	89		57					
6/12/2019								226	
6/13/2019							136		301
9/24/2019			157						
9/25/2019				75	81				
9/26/2019	72	126							
10/8/2019						172		276	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
10/9/2019									526
10/10/2019							109		
3/17/2020						165	175	185	306
3/18/2020									
3/19/2020									
3/24/2020	59	91	117	76	71				
3/25/2020									
9/22/2020						141	110	281	675
9/23/2020	81	103			99				
9/24/2020			113	69					
9/25/2020									
3/1/2021						145			974
3/2/2021							167	296 (D)	
3/3/2021	37	95		53	57				
3/4/2021			110						
8/18/2021							214		1200
8/19/2021						134			
8/20/2021								254	
8/26/2021	31								
8/27/2021		112		67	93				
9/1/2021			137						
9/3/2021									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	257						
9/1/2016		578	1400	553			
9/13/2016							
9/14/2016					152		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					148		
11/14/2016							
11/28/2016	177						
11/29/2016		455					
11/30/2016				247 (B)			
12/1/2016			1610 (B)				
12/15/2016					191		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					180		
2/21/2017							
2/22/2017	240						
2/23/2017		614					
2/24/2017			1200	414			
3/1/2017							
3/2/2017							
3/3/2017					156		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					130		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	149	955	1360	251			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			1340				
7/18/2017	122	1270		179			
10/3/2017					153		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						68	
10/12/2017							74
10/16/2017			1080				
10/17/2017	214			256			
10/18/2017		1150					
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018		1070					119
2/20/2018	131			233		87	
2/21/2018			830				
4/2/2018							
4/3/2018						85	106
6/5/2018							
6/6/2018							
6/7/2018					146		
6/8/2018							
6/11/2018							
6/28/2018						88	112
8/6/2018		1260					
8/7/2018			1180			89	103
8/8/2018	166			292			
9/19/2018							
9/24/2018						82	107
9/25/2018							
9/26/2018							
10/1/2018					155		
10/2/2018							
2/25/2019		1160					
2/26/2019	293		1010	226			
3/26/2019							90
3/27/2019						75	
3/28/2019							
3/29/2019					150		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	391			298			
6/13/2019		1310	1410				
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	372		1680			119	98
10/10/2019				247			
3/17/2020		588					
3/18/2020	351		1520	703			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	394			217			
9/23/2020		820	1000		161		
9/24/2020						170	77
9/25/2020							
3/1/2021	516			666			
3/2/2021			980				
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	474	682	1660	630			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88

FIGURE H.

Appendix III Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	**GWC-5R**	**-0.09154**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

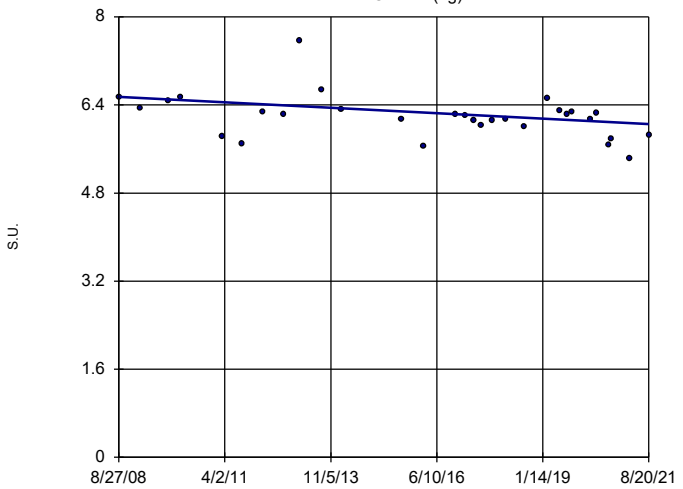
Appendix III Trend Test Summary - Intrawell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	GWA-2 (bg)	-0.03819	-145	-146	No	30	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWC-5R**	**-0.09154**	**-109**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sen's Slope Estimator

GWA-2 (bg)



n = 30

Slope = -0.03819 units per year.

Mann-Kendall statistic = -145
critical = -146

Trend not significant at 99% confidence level (α = 0.005 per tail).

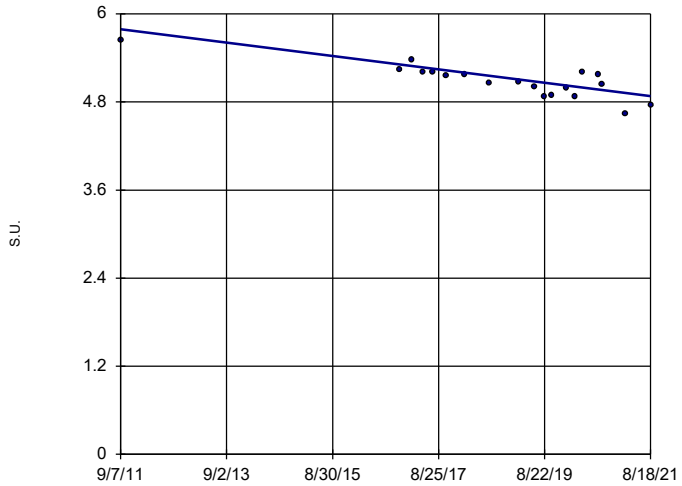
Constituent: pH Analysis Run 10/28/2021 5:28 PM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-5R



n = 19

Slope = -0.09154 units per year.

Mann-Kendall statistic = -109
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/28/2021 5:28 PM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE I.

Appendix III Trend Test Summary - Interwell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.000923	-50	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.4027	92	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1782	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05961	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05007	-72	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4824	-58	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8704	-97	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.1339	13	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0008768	-36	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0	1	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-30	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0	0	63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.00007668	10	63	No	17	29.41	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-18	-63	No	17	70.59	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-13	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.005469	-53	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-14	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-25	-63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.004253	27	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-21	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-11	-63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	14	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-39	-63	No	17	58.82	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**4.423**	**71**	**53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	3.808	9	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**7.598**	**63**	**53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	3.444	29	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	7.109	43	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	4.534	12	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.01957	-45	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.12**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07527**	**-79**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7142**	**68**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.1058**	**-73**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.06963	56	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.218**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.3107	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.6588	26	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5989	46	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5549	41	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.8022	-47	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.845**	**-69**	**-48**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.2132	21	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-2.169**	**-74**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.07389	58	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1877	43	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.955	50	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	3.199	11	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1776	42	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.06344	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2062	62	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.002869	-40	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02701	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1349	-41	-63	No	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-2I (bg)	-0.04401	-47	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02202	-32	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.3996	26	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2116	37	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.1004	41	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**23.3**	**74**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	7.337	1	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	26.07	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.034	-3	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-3.022	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.08247	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1098	59	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1768	-60	-63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1647	-50	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.025**	**88**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.2433	-23	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	30	63	No	17	64.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1968	-22	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.4455	27	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.07072	-31	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.378**	**-51**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4885**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-3I (bg)	1.181	61	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-40 (bg)**	**-10.75**	**-65**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-21.6**	**-78**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.1495	44	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.658**	**-104**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09609**	**85**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	10.15	3	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**64.22**	**57**	**53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	11.94	12	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-27.21	-9	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	21.01	9	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

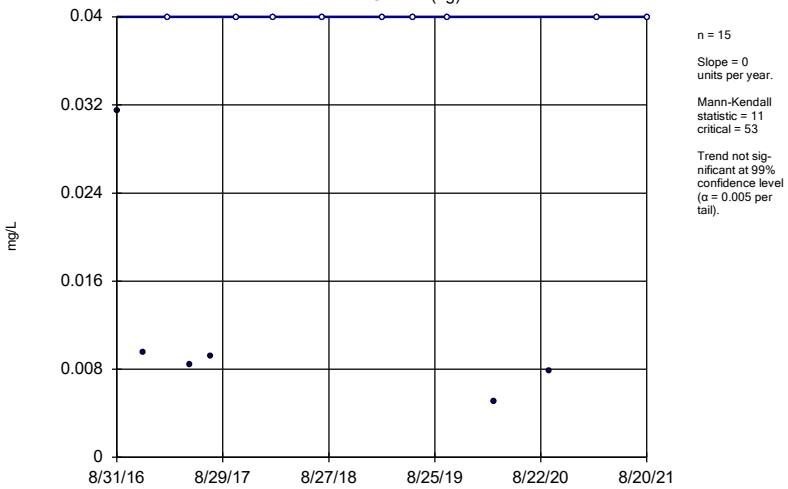
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 0
units per year.

Mann-Kendall
statistic = 11
critical = 53

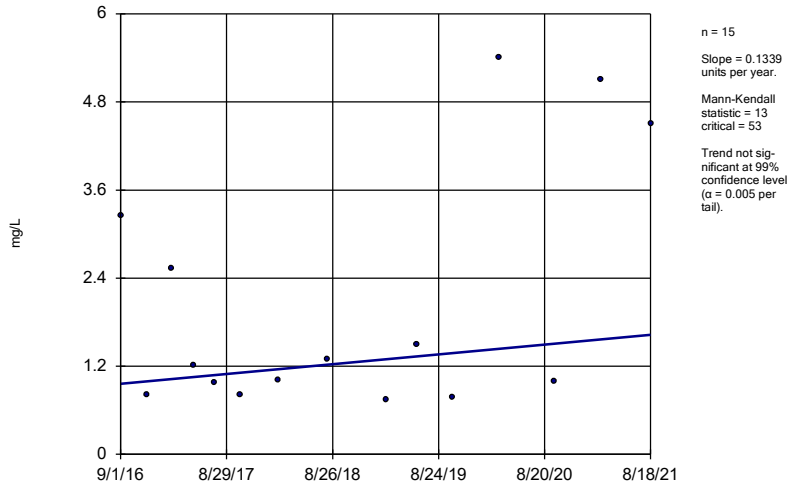
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 15

Slope = 0.1339
units per year.

Mann-Kendall
statistic = 13
critical = 53

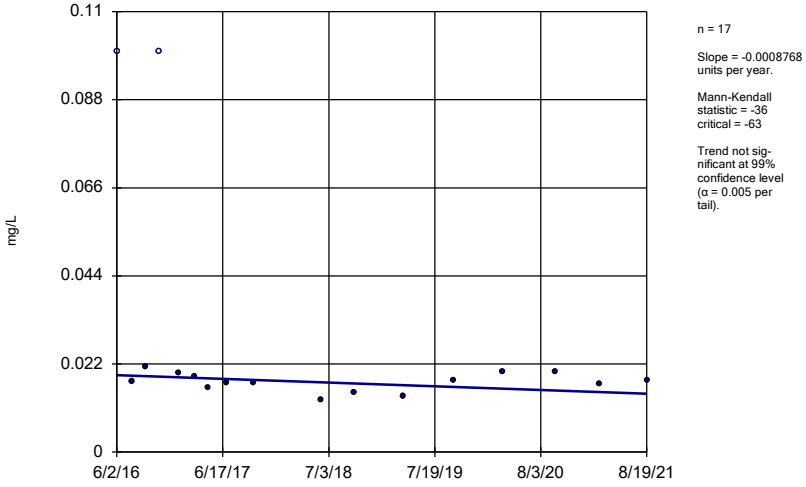
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = -0.0008768
units per year.

Mann-Kendall
statistic = -36
critical = -63

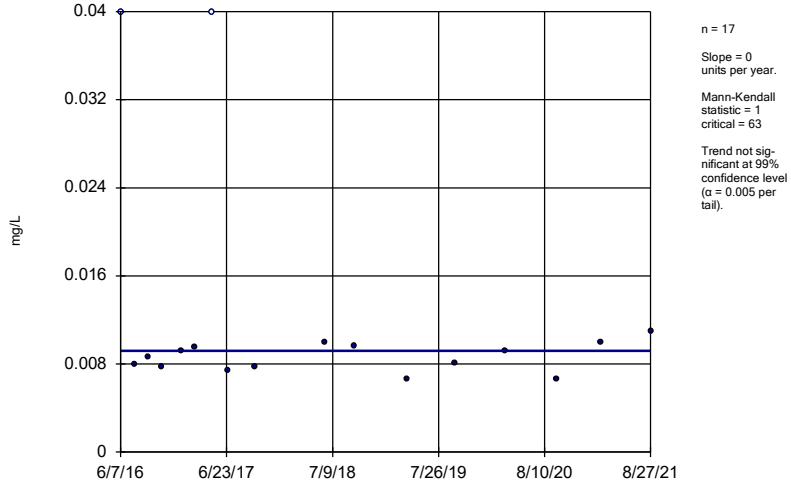
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0
units per year.

Mann-Kendall
statistic = 1
critical = 63

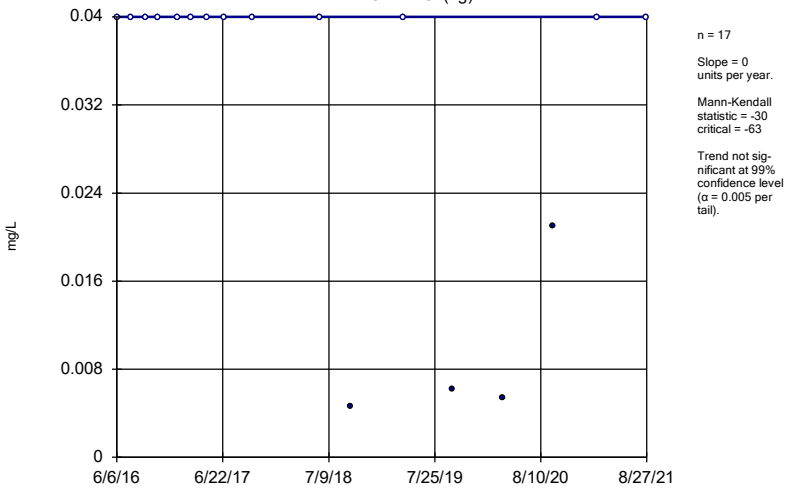
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -30
critical = -63

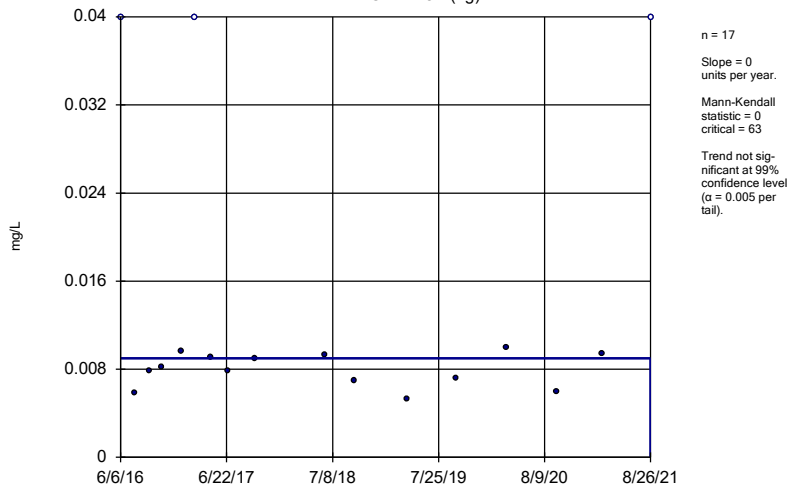
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

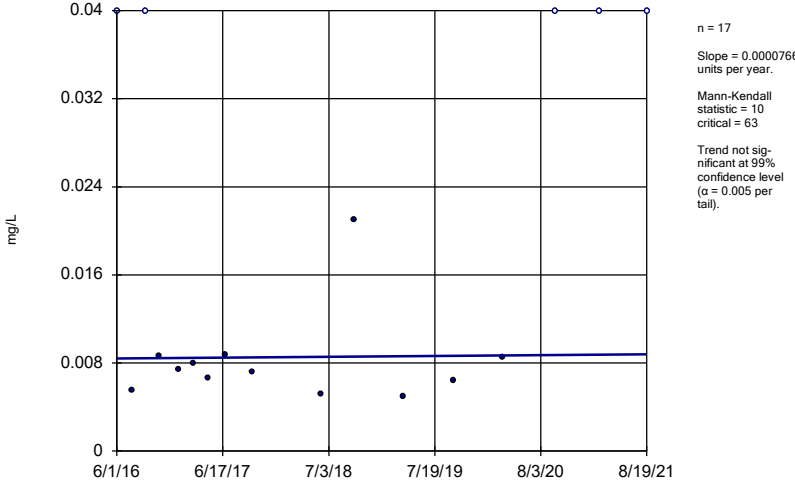
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 0.00007668 units per year.

Mann-Kendall statistic = 10
critical = 63

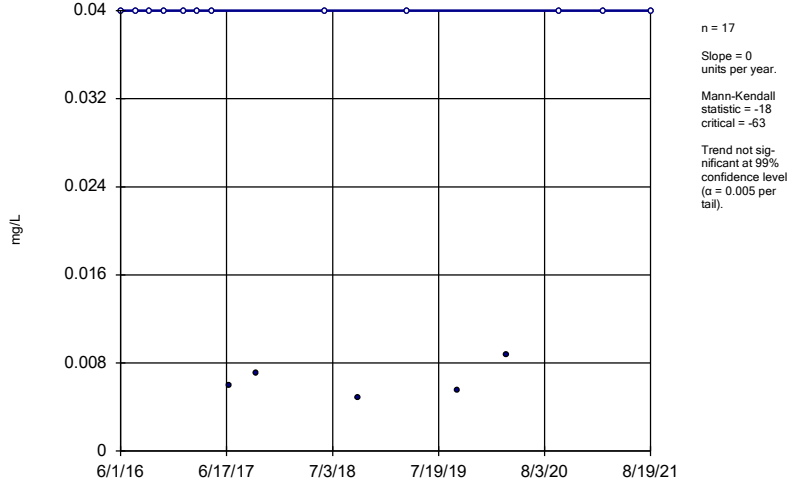
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -63

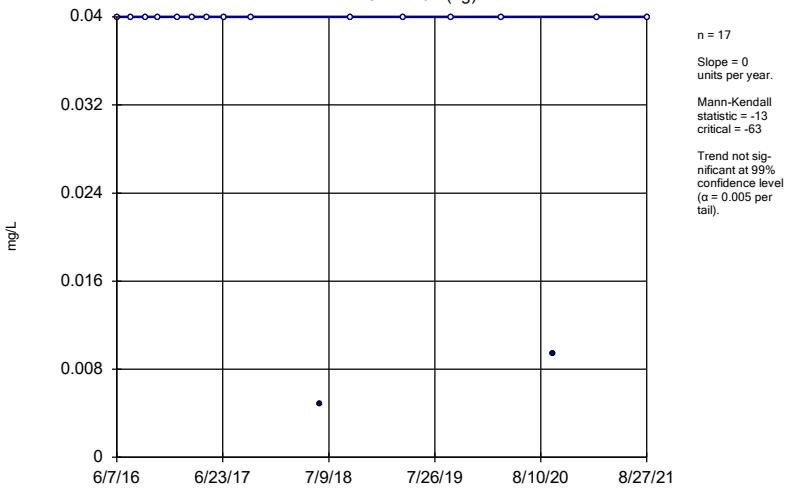
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -63

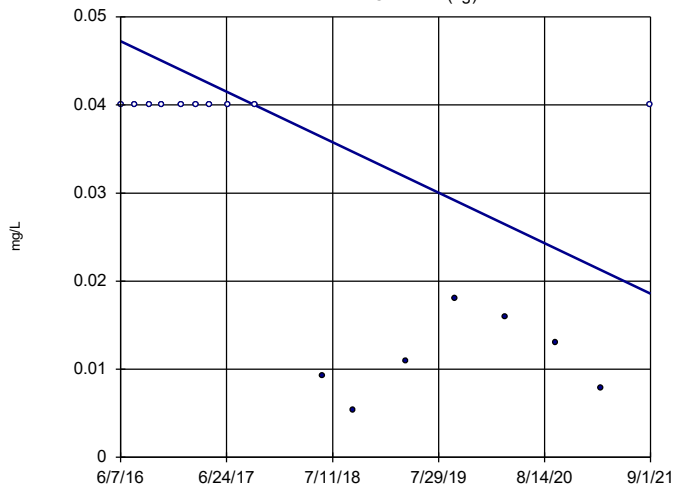
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = -0.005469 units per year.

Mann-Kendall statistic = -53
critical = -63

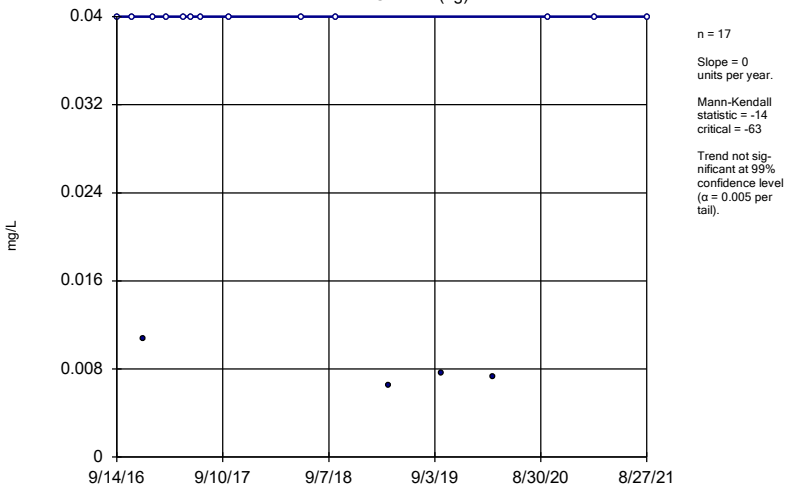
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -63

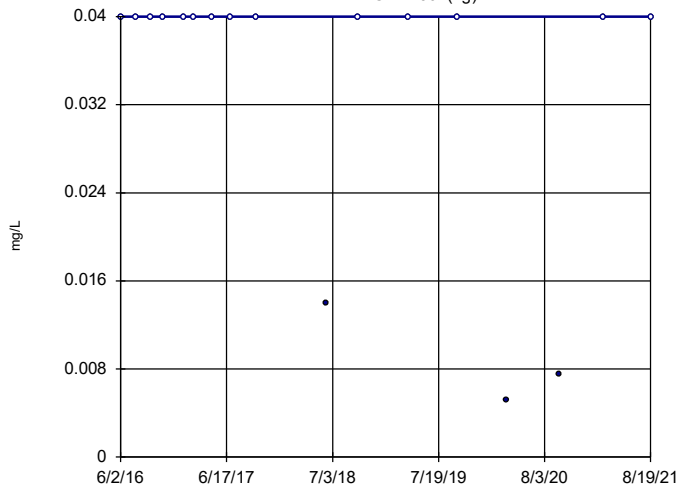
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -63

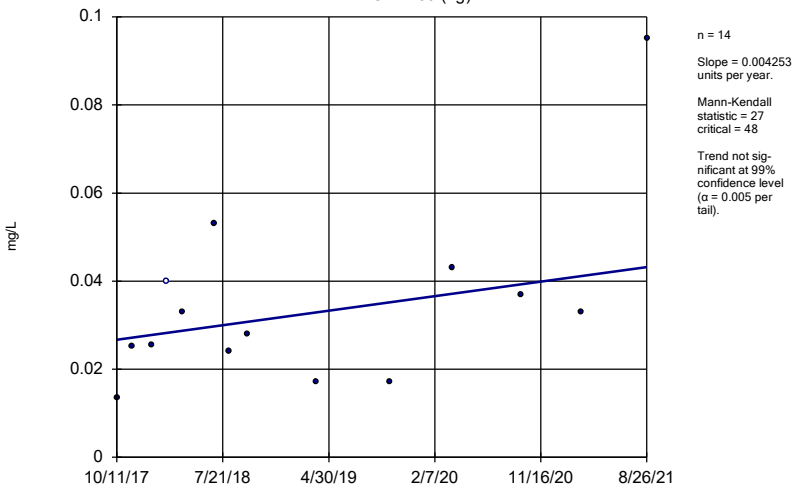
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 0.004253 units per year.

Mann-Kendall statistic = 27
critical = 48

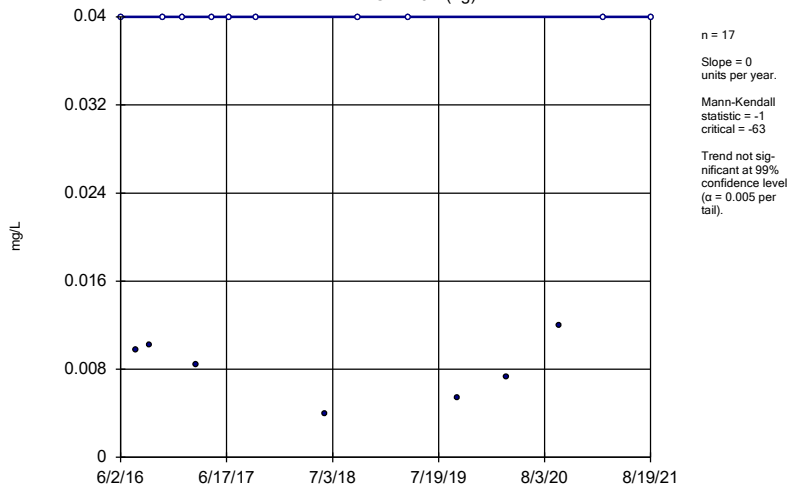
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -63

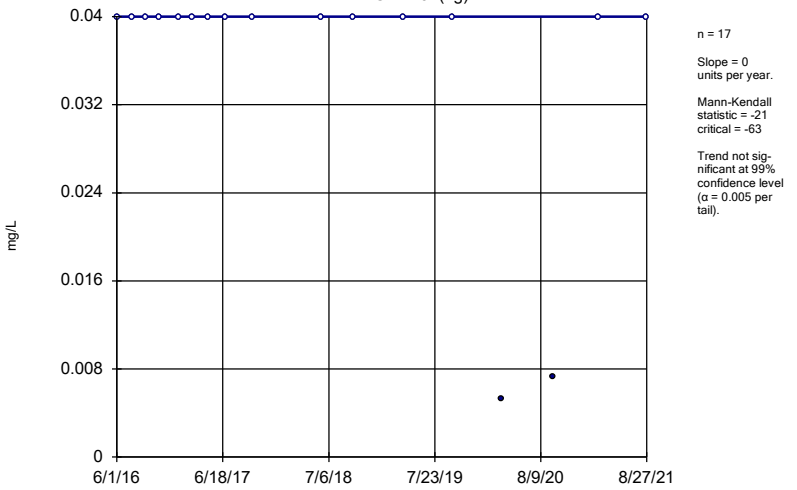
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -63

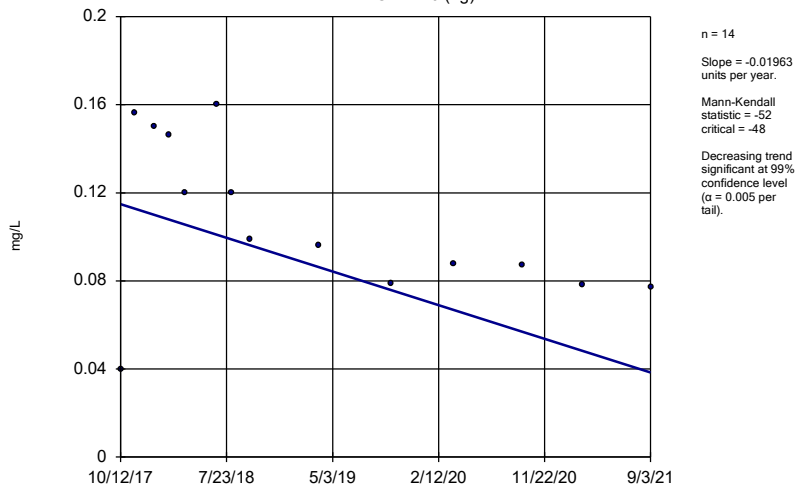
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -0.01963 units per year.

Mann-Kendall statistic = -52
critical = -48

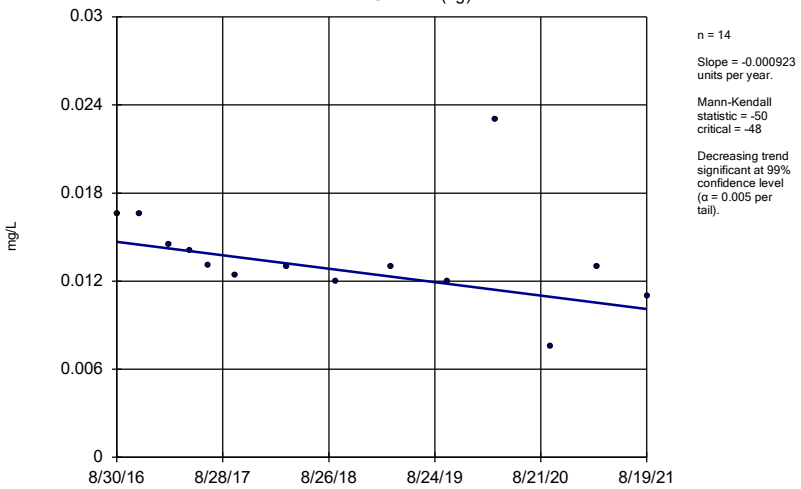
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -0.000923 units per year.

Mann-Kendall statistic = -50
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

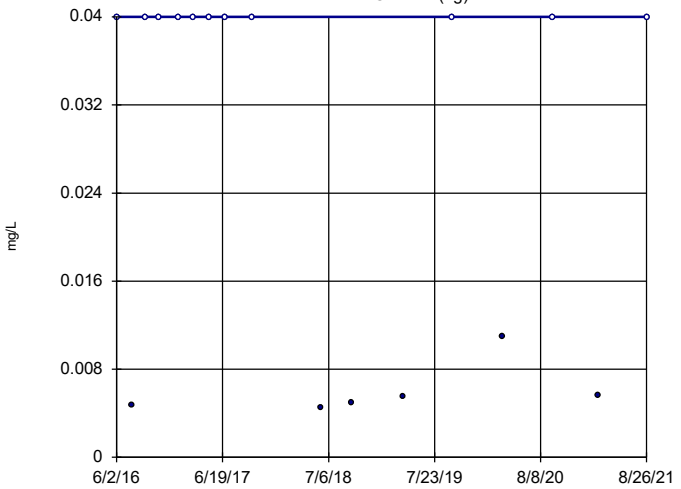
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

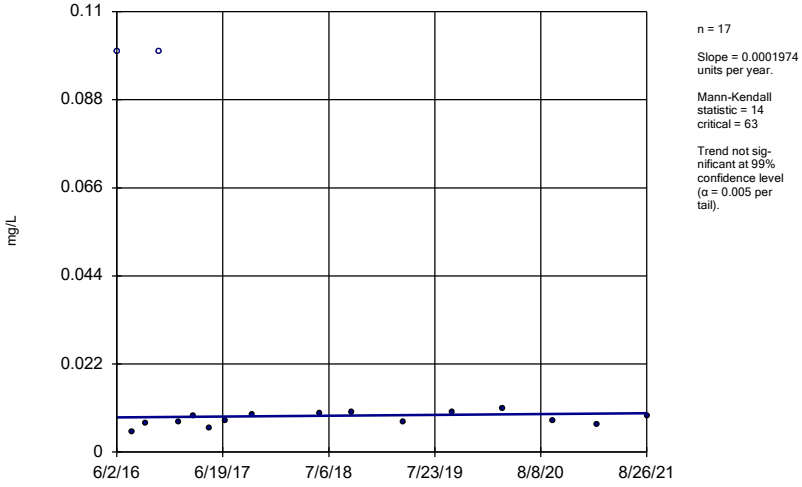
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = 0.0001974 units per year.

Mann-Kendall statistic = 14
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

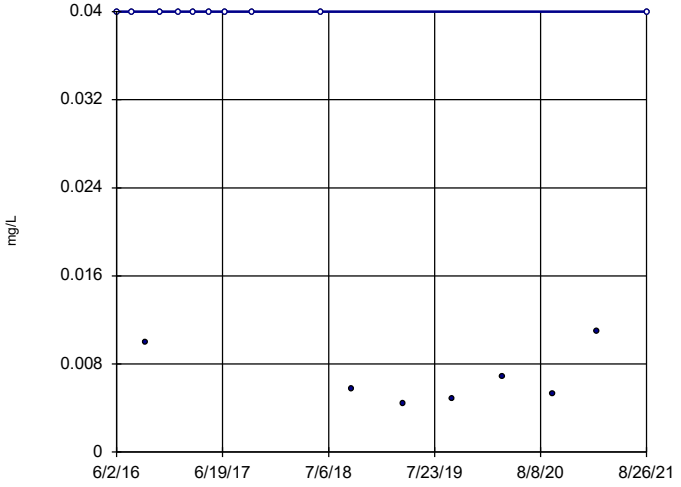
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -39
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

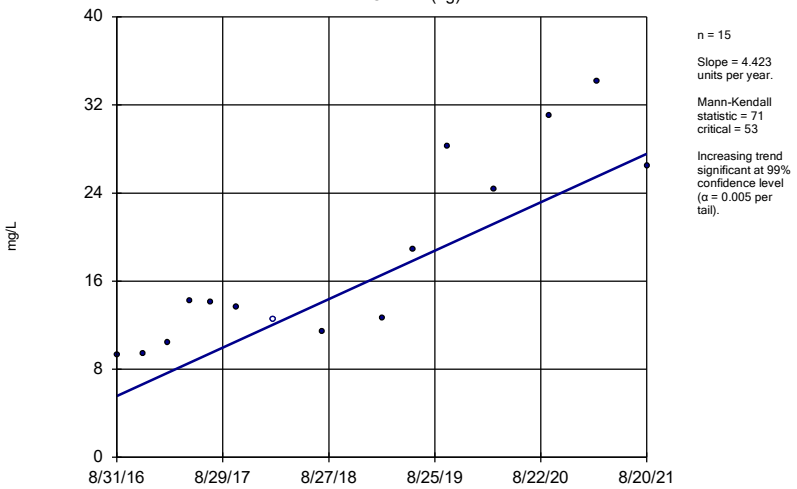
Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)

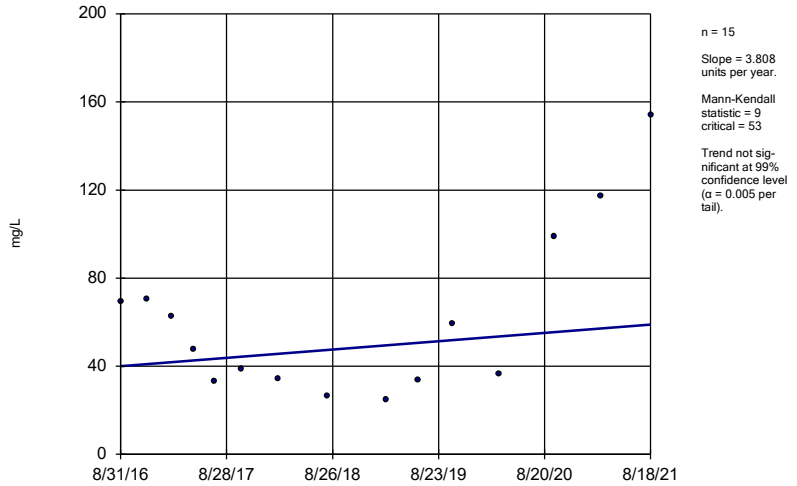


Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R

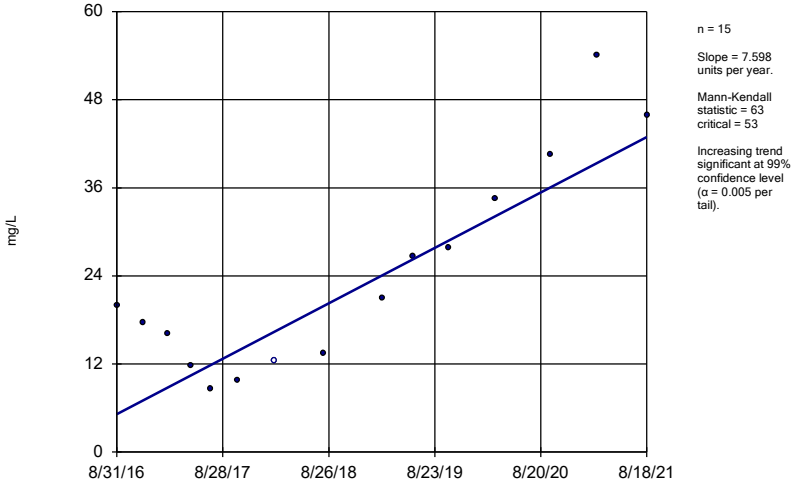


Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R

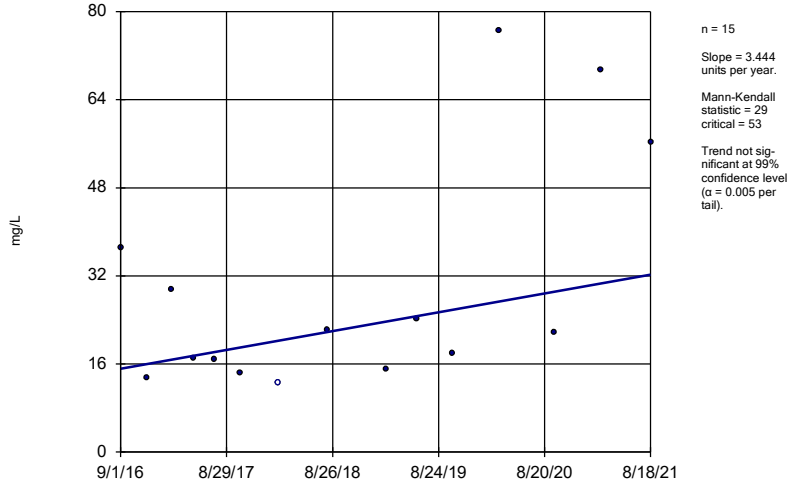


Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

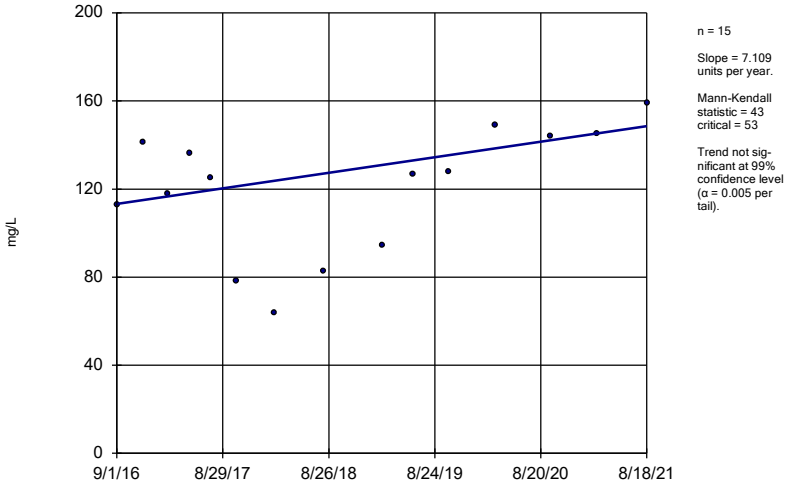
GWC-4R



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 15

Slope = 7.109 units per year.

Mann-Kendall statistic = 43
critical = 53

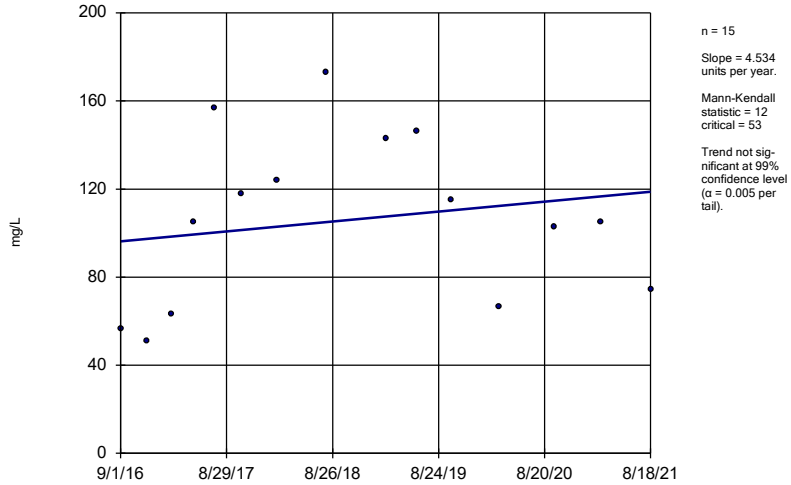
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 15

Slope = 4.534 units per year.

Mann-Kendall statistic = 12
critical = 53

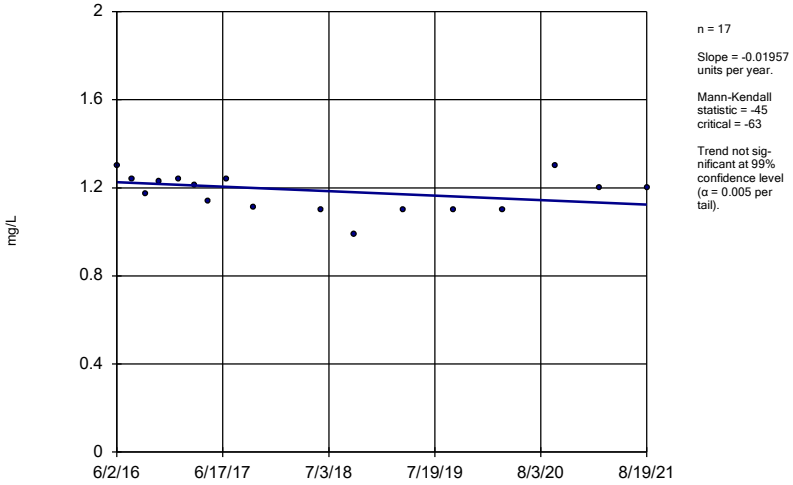
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = -0.01957 units per year.

Mann-Kendall statistic = -45
critical = -63

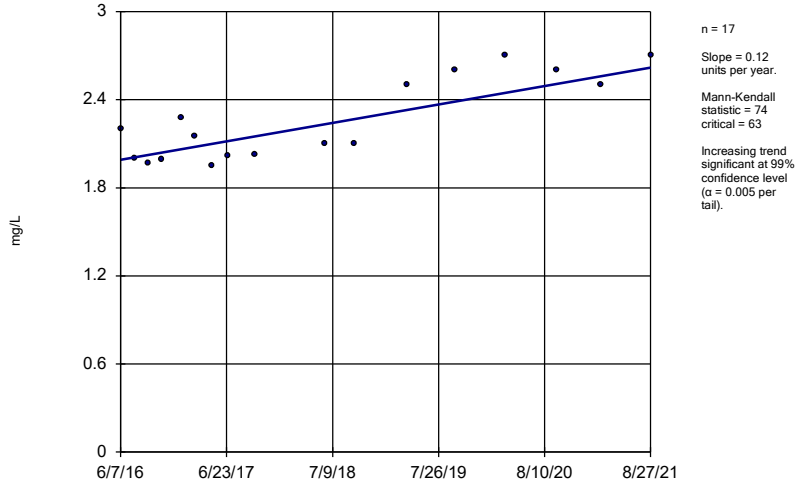
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0.12 units per year.

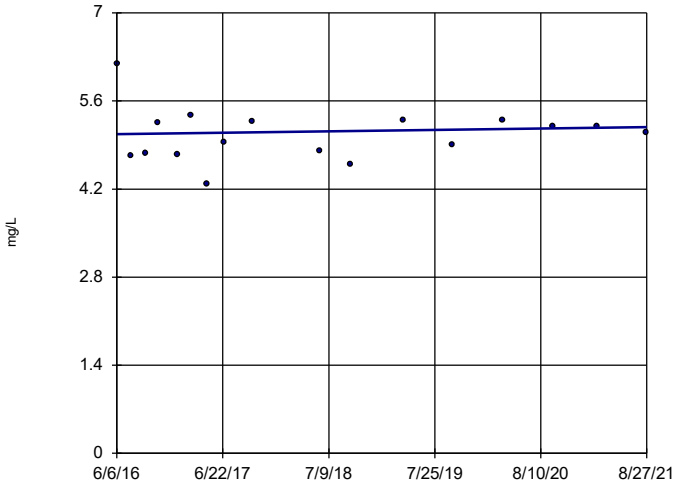
Mann-Kendall statistic = 74
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = 0.02122 units per year.

Mann-Kendall statistic = 10
critical = 63

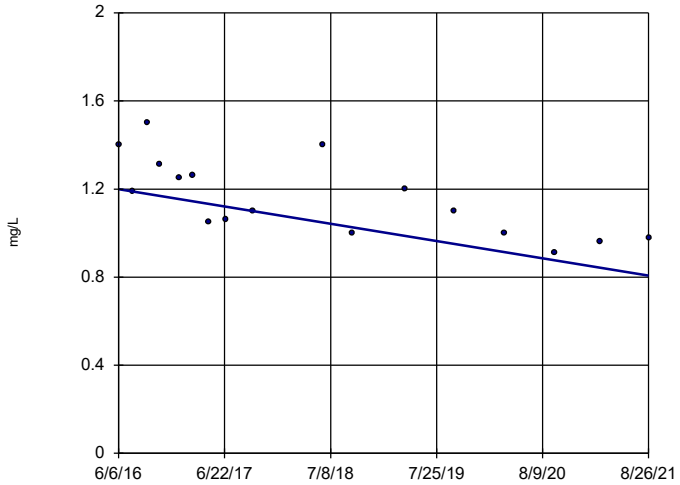
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = -0.07527 units per year.

Mann-Kendall statistic = -79
critical = -63

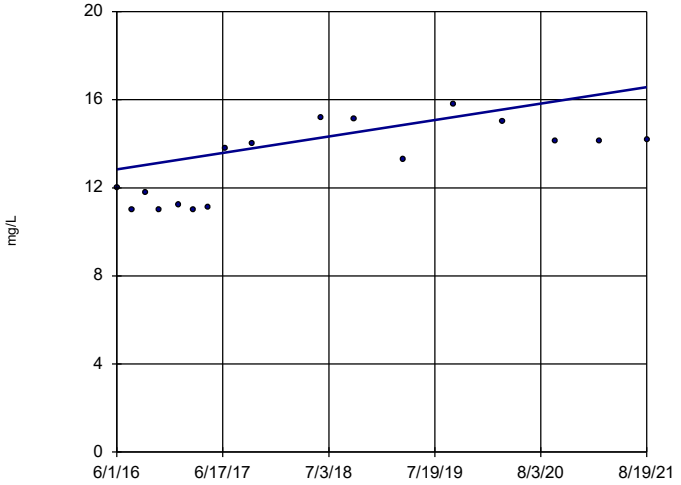
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 0.7142 units per year.

Mann-Kendall statistic = 68
critical = 63

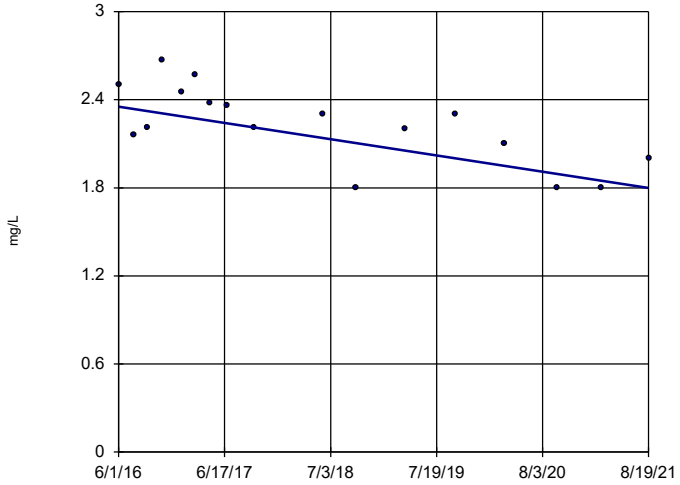
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -0.1058 units per year.

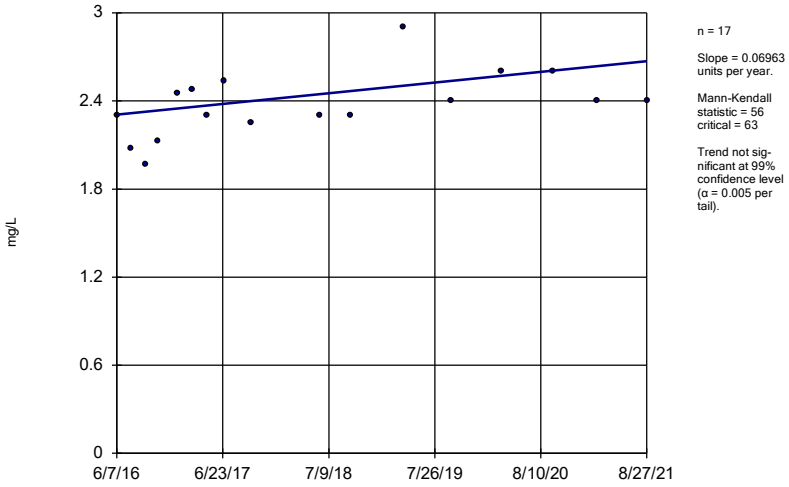
Mann-Kendall statistic = -73
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0.06963 units per year.

Mann-Kendall statistic = 56 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

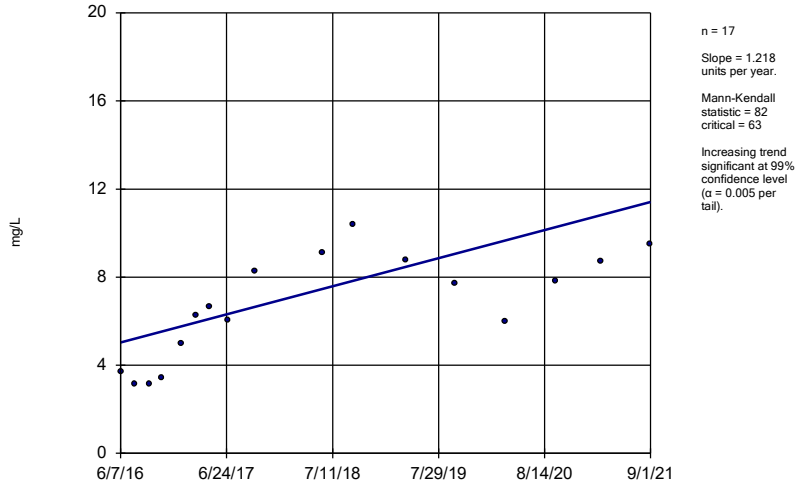
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = 1.218 units per year.

Mann-Kendall statistic = 82 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

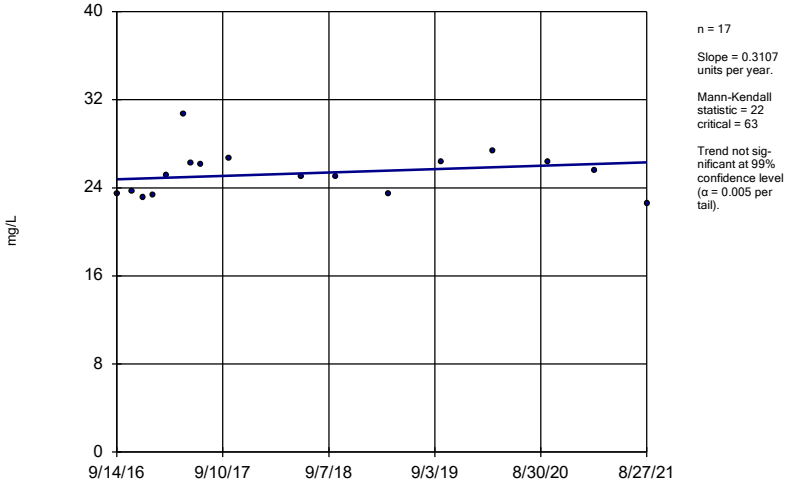
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = 0.3107 units per year.

Mann-Kendall statistic = 22 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

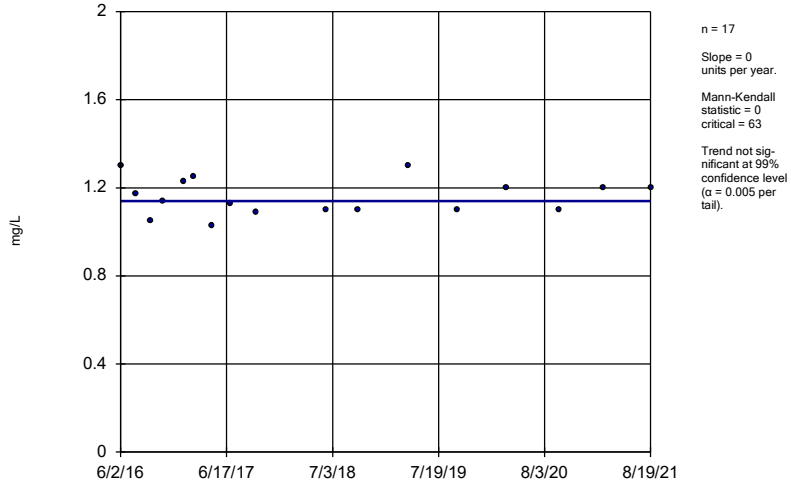
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 63

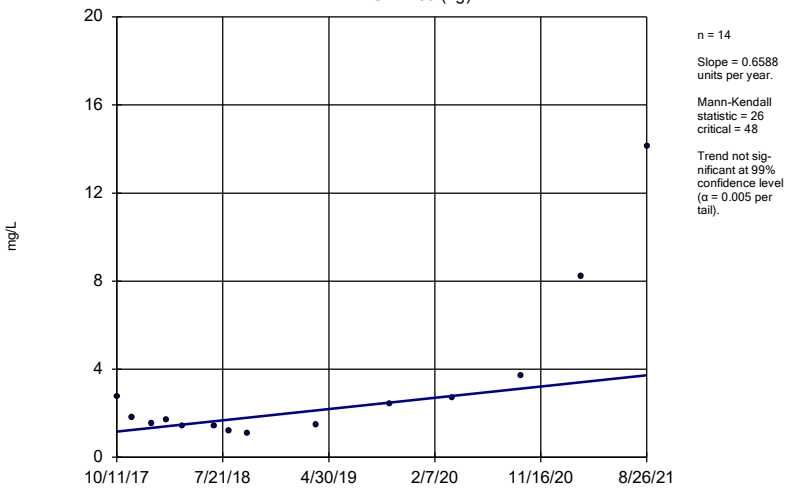
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 0.6588 units per year.

Mann-Kendall statistic = 26 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

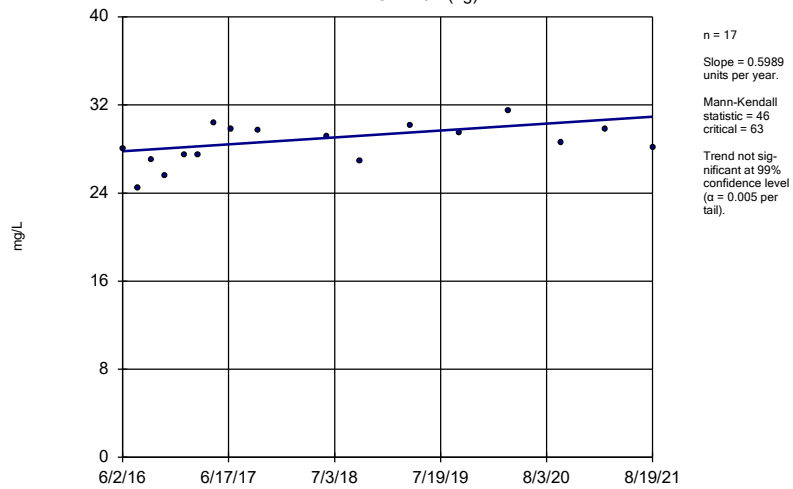
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 0.5989 units per year.

Mann-Kendall statistic = 46 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

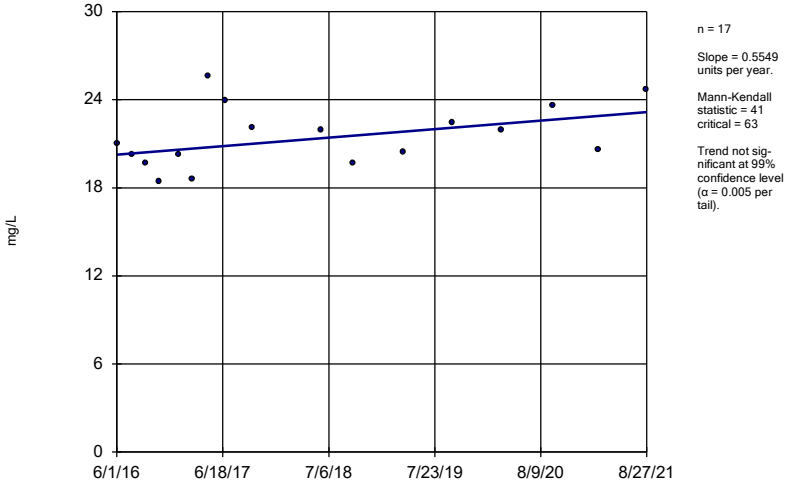
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 0.5549 units per year.

Mann-Kendall statistic = 41 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

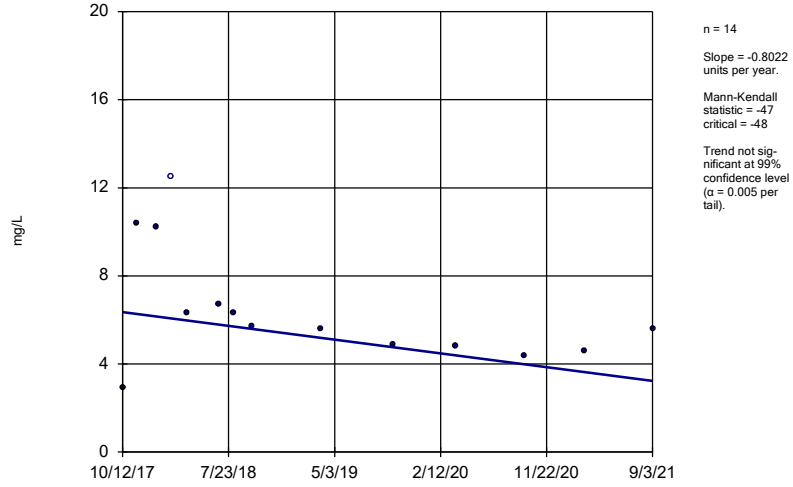
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -0.8022 units per year.

Mann-Kendall statistic = -47 critical = -48

Trend not significant at 99% confidence level (α = 0.005 per tail).

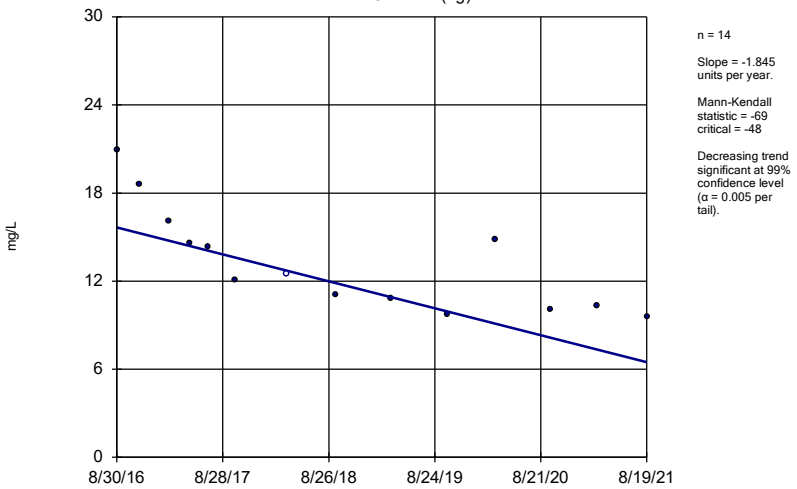
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -1.845 units per year.

Mann-Kendall statistic = -69 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

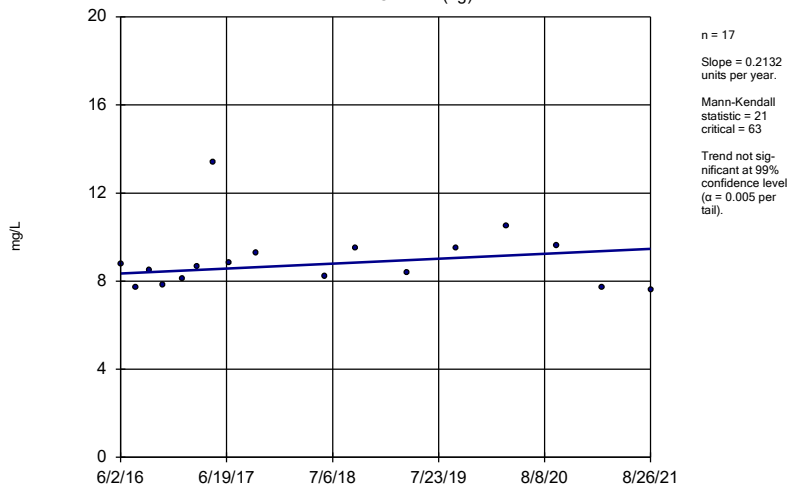
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.2132 units per year.

Mann-Kendall statistic = 21 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

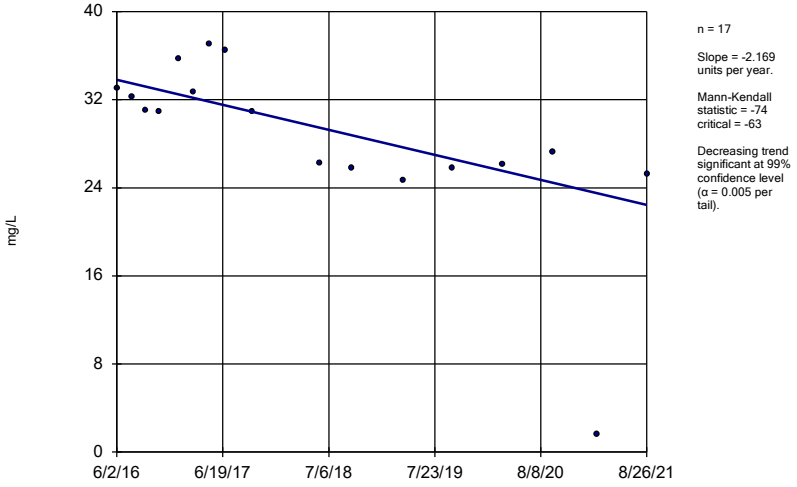
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -2.169 units per year.

Mann-Kendall statistic = -74 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

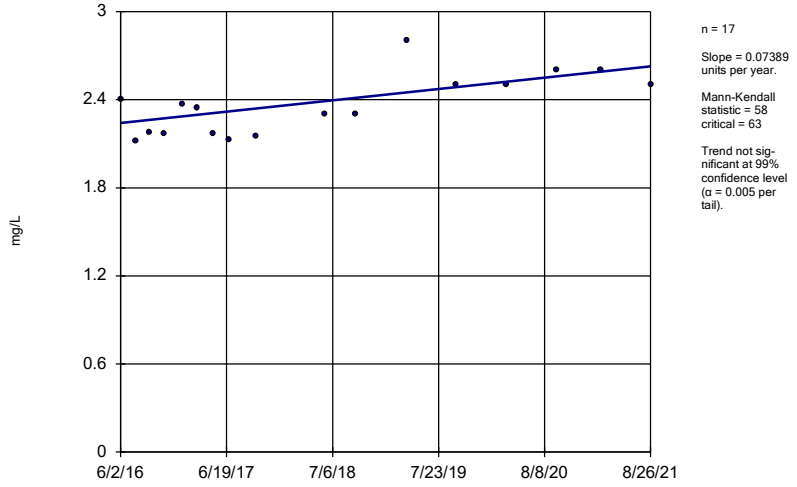
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0.07389 units per year.

Mann-Kendall statistic = 58 critical = 63

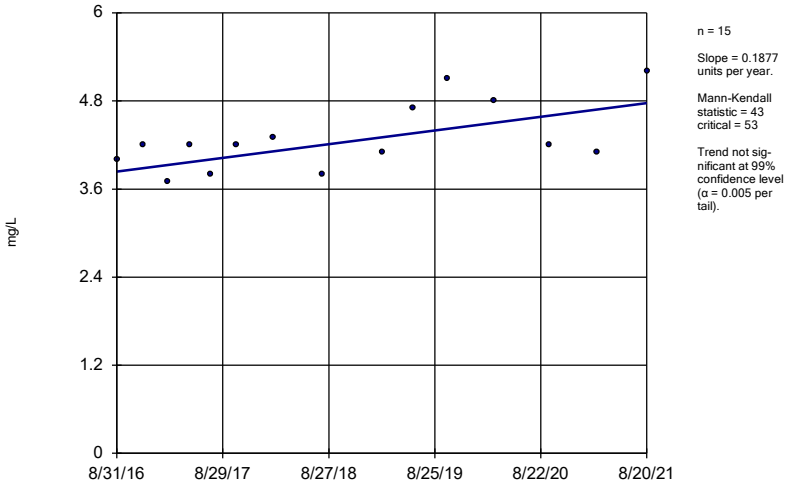
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 0.1877 units per year.

Mann-Kendall statistic = 43 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

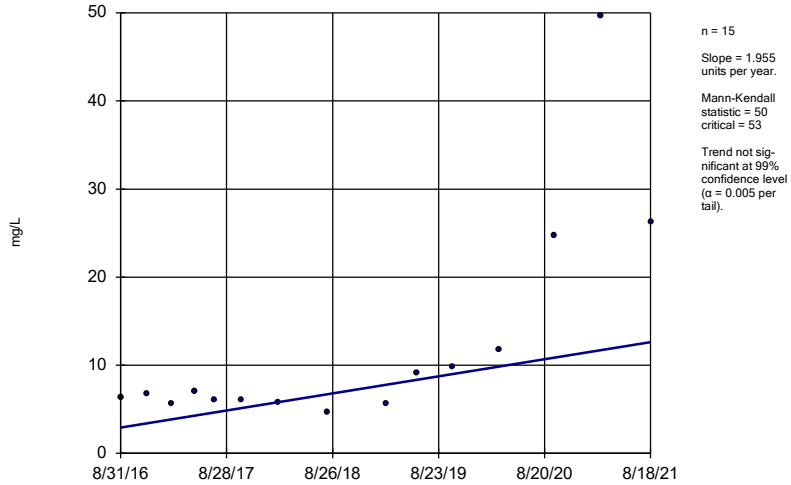
Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 15

Slope = 1.955 units per year.

Mann-Kendall statistic = 50 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

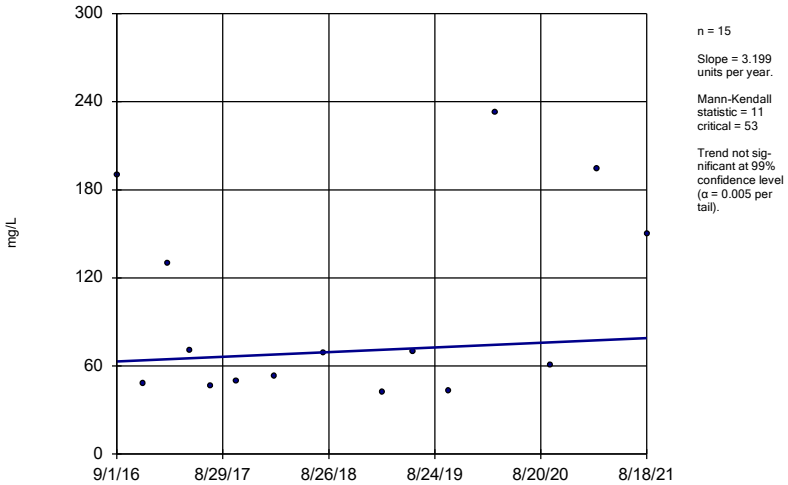
Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 15

Slope = 3.199 units per year.

Mann-Kendall statistic = 11 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

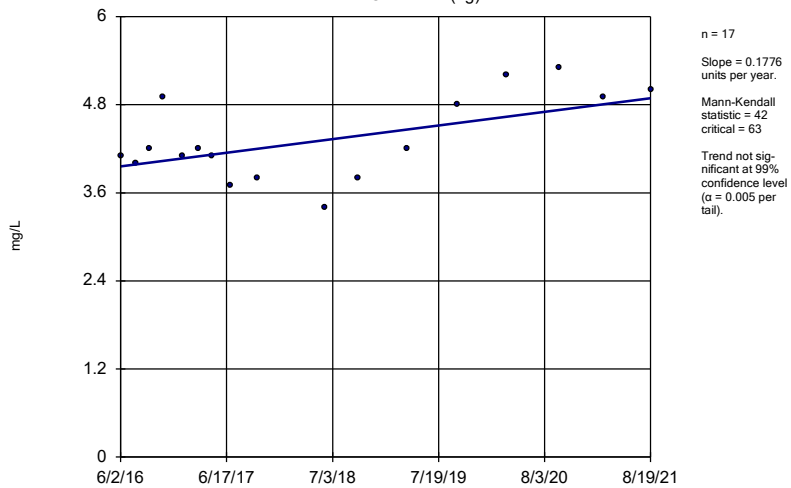
Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = 0.1776 units per year.

Mann-Kendall statistic = 42 critical = 63

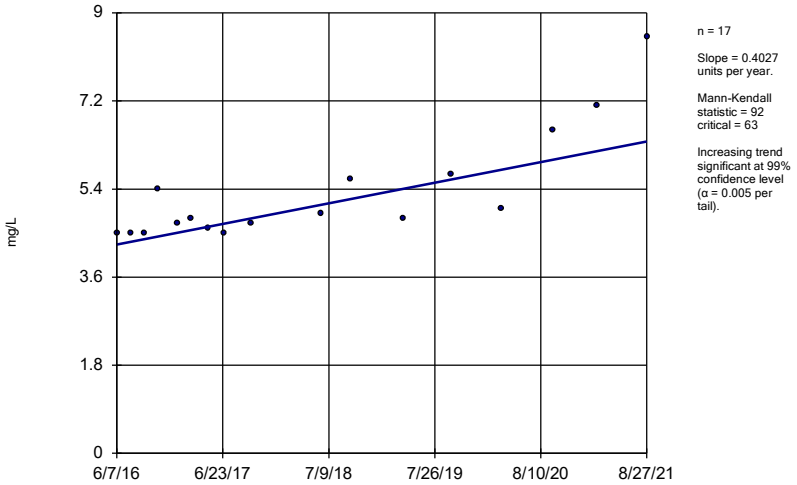
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0.4027 units per year.

Mann-Kendall statistic = 92
critical = 63

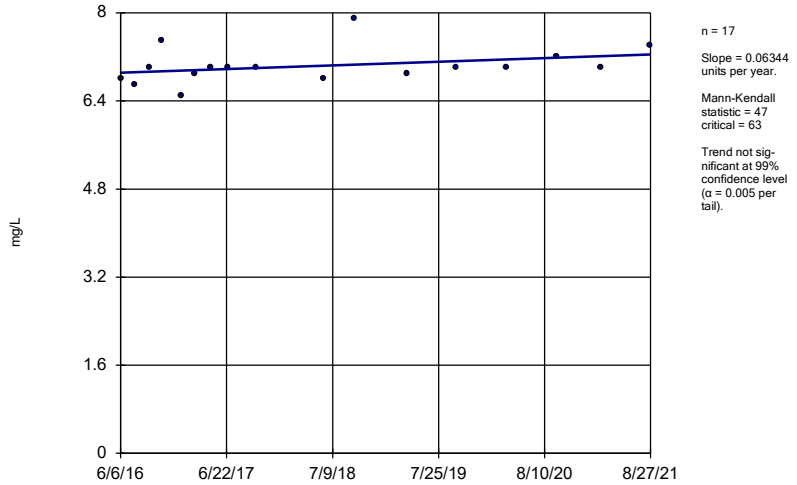
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = 0.06344 units per year.

Mann-Kendall statistic = 47
critical = 63

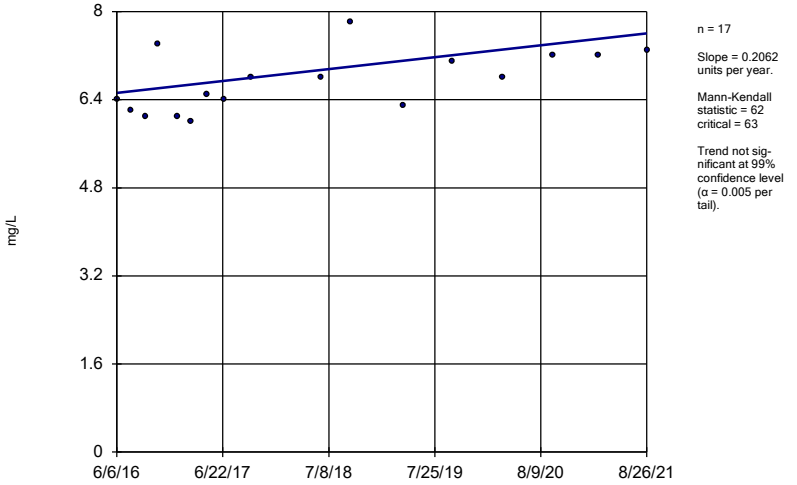
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0.2062 units per year.

Mann-Kendall statistic = 62
critical = 63

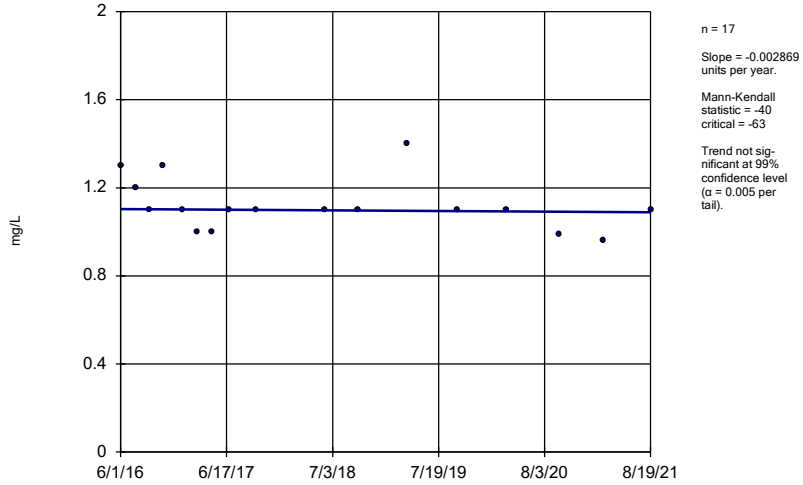
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = -0.002869 units per year.

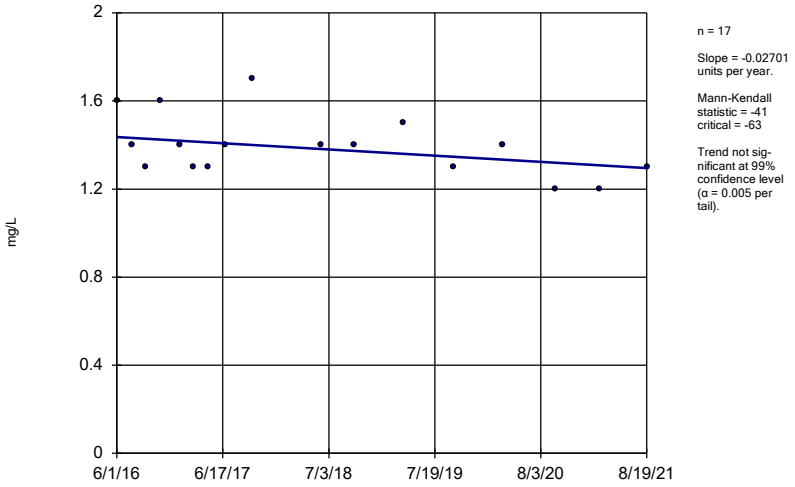
Mann-Kendall statistic = -40
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -0.02701 units per year.

Mann-Kendall statistic = -41
critical = -63

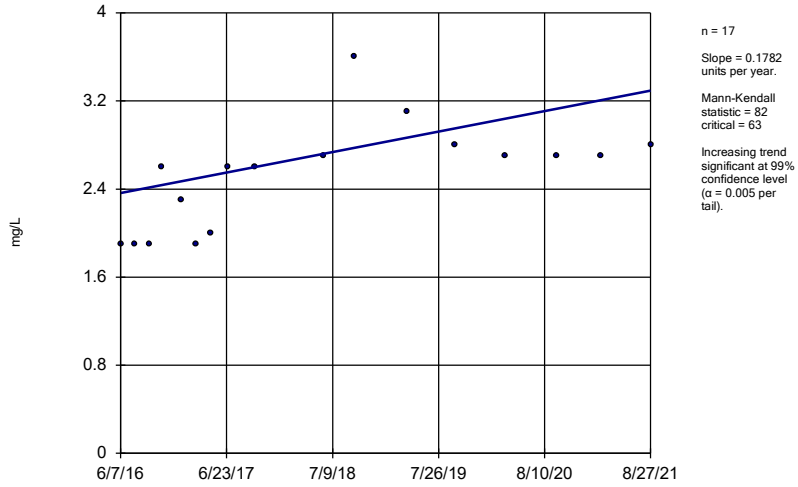
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0.1782 units per year.

Mann-Kendall statistic = 82
critical = 63

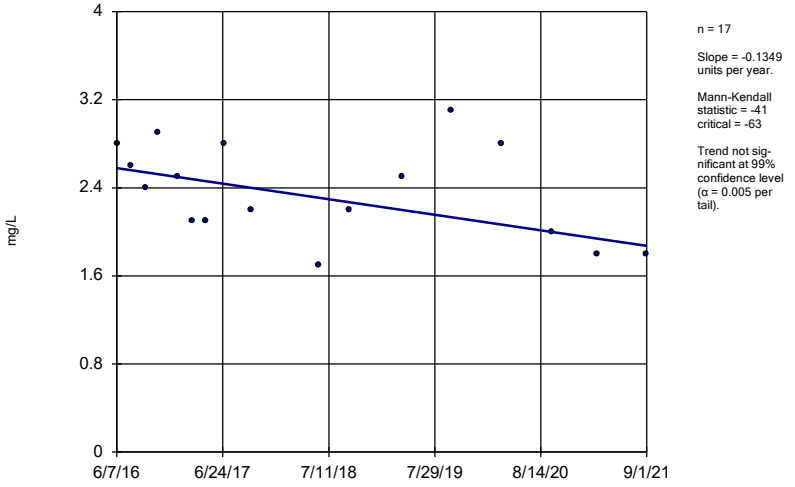
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = -0.1349 units per year.

Mann-Kendall statistic = -41
critical = -63

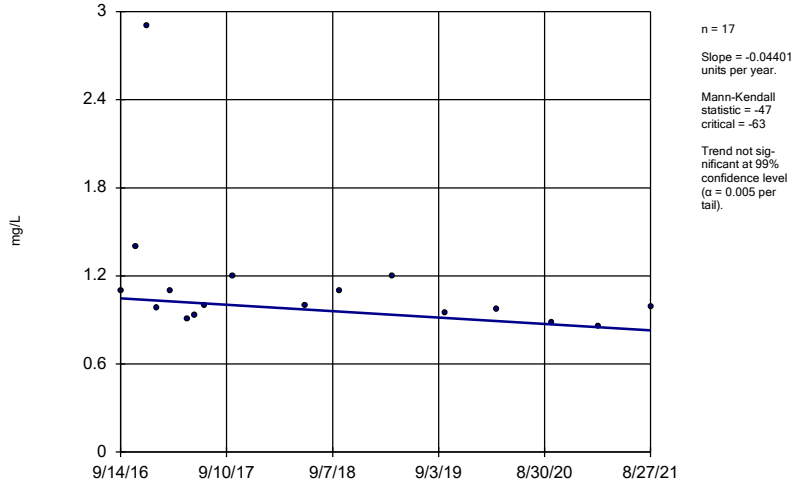
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = -0.04401 units per year.

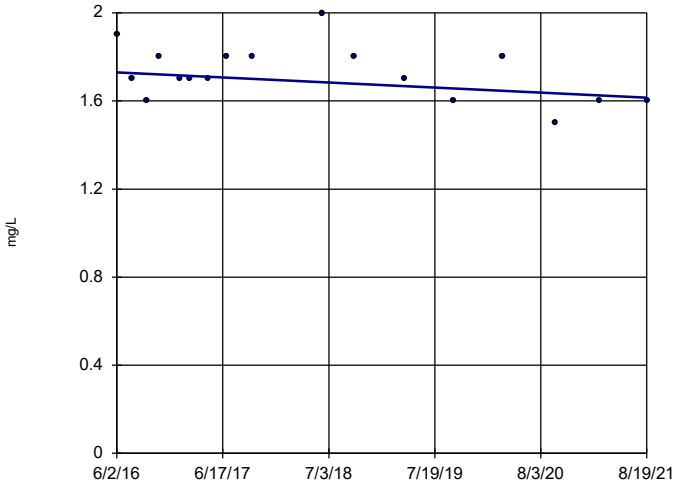
Mann-Kendall statistic = -47
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = -0.02202 units per year.

Mann-Kendall statistic = -32
critical = -63

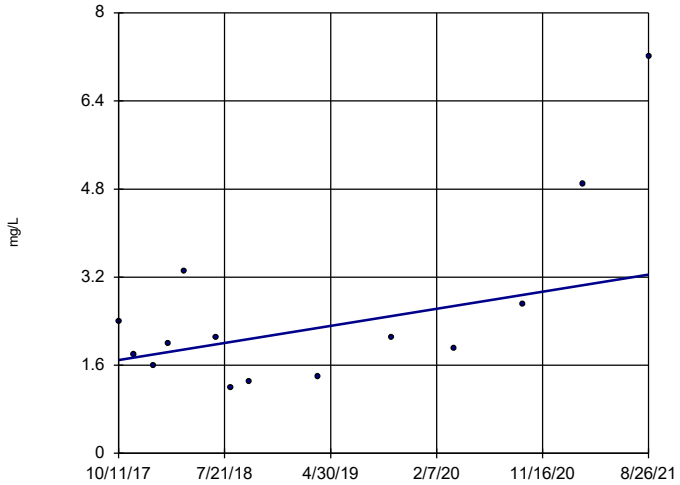
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 0.3996 units per year.

Mann-Kendall statistic = 26
critical = 48

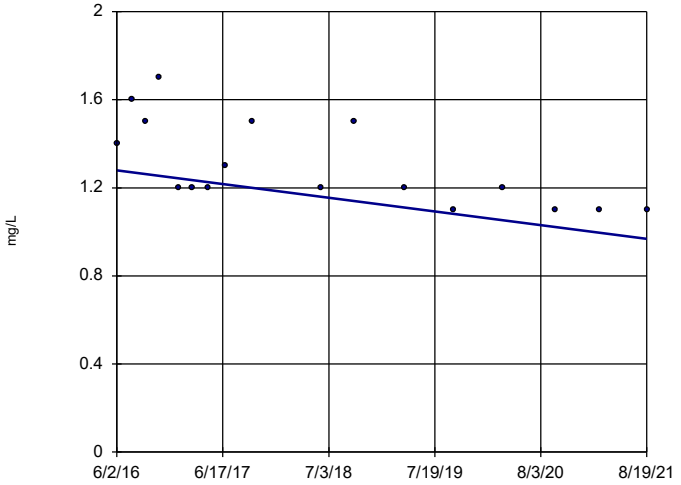
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = -0.05961 units per year.

Mann-Kendall statistic = -72
critical = -63

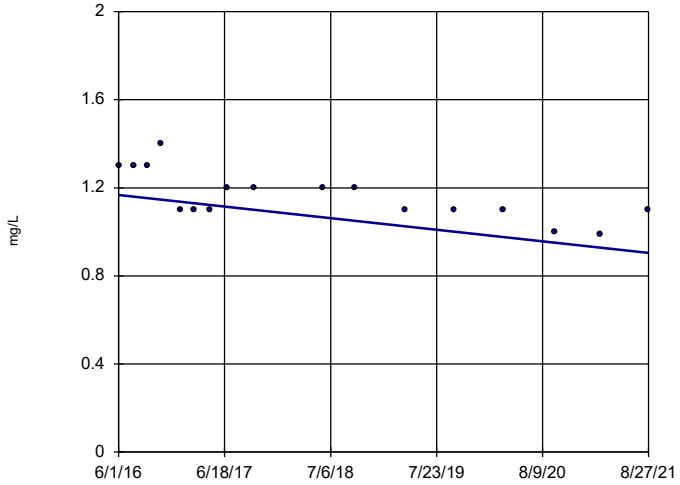
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = -0.05007 units per year.

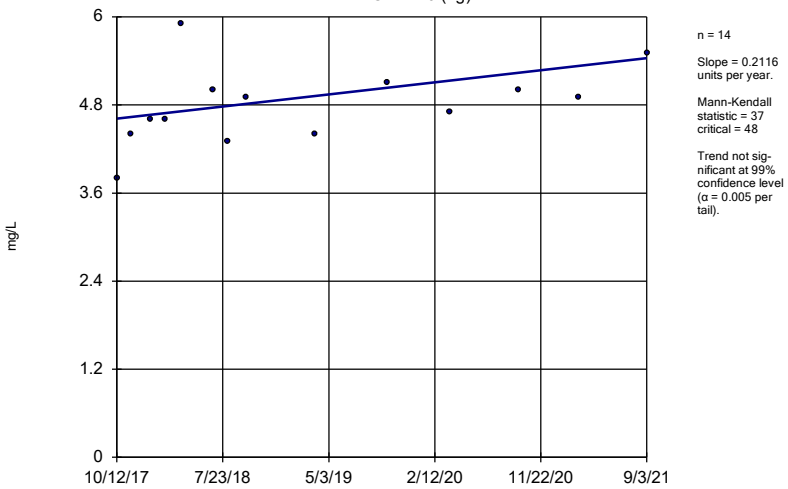
Mann-Kendall statistic = -72
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = 0.2116 units per year.

Mann-Kendall statistic = 37 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

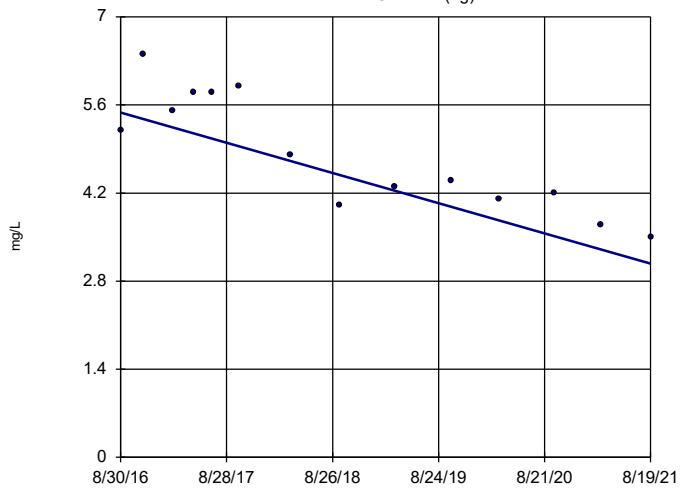
Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -0.4824 units per year.

Mann-Kendall statistic = -58 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

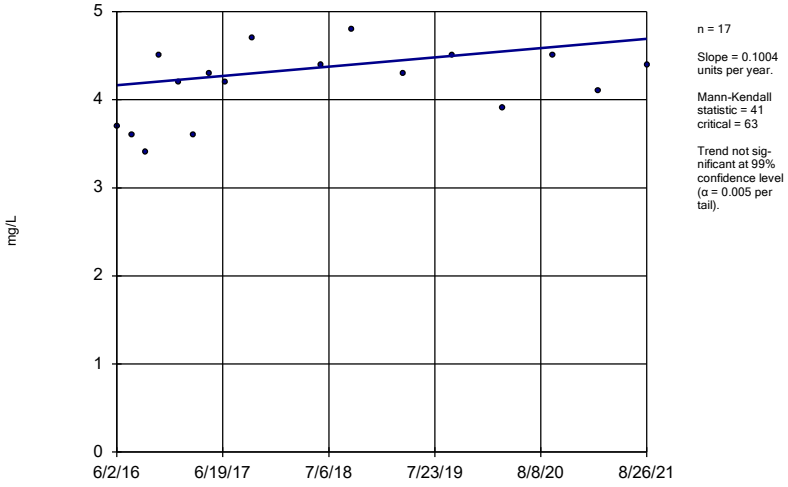
Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.1004 units per year.

Mann-Kendall statistic = 41 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

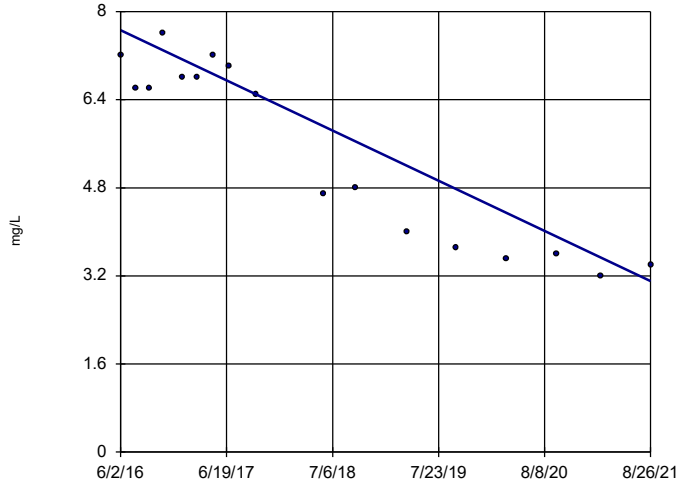
Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -0.8704 units per year.

Mann-Kendall statistic = -97 critical = -63

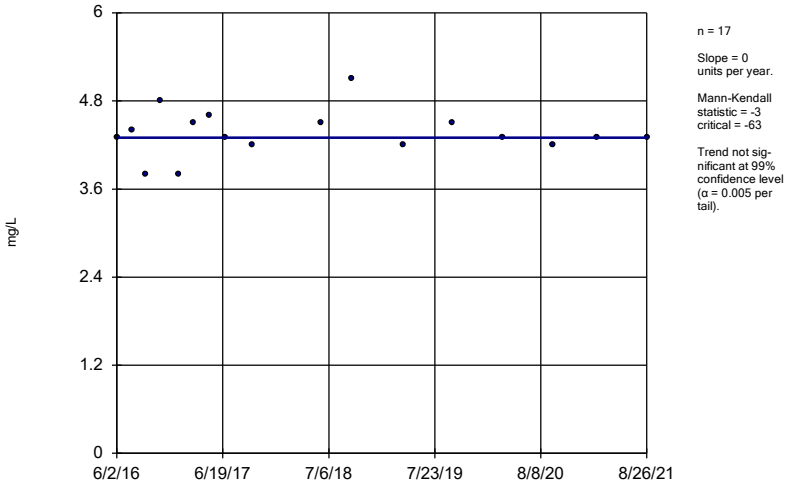
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

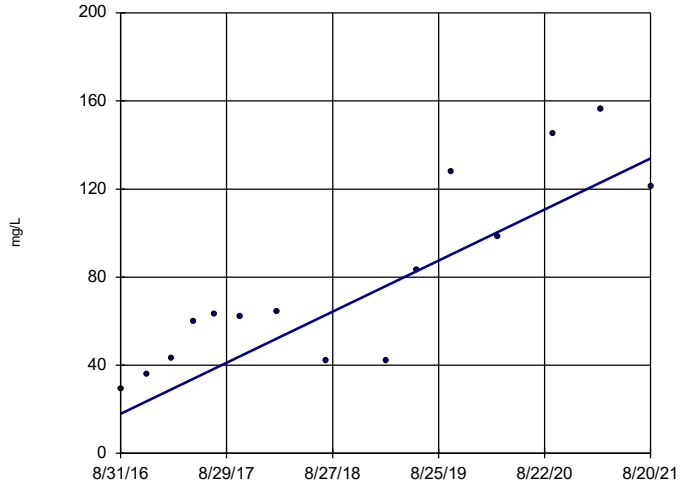
Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 23.3 units per year.

Mann-Kendall statistic = 74 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

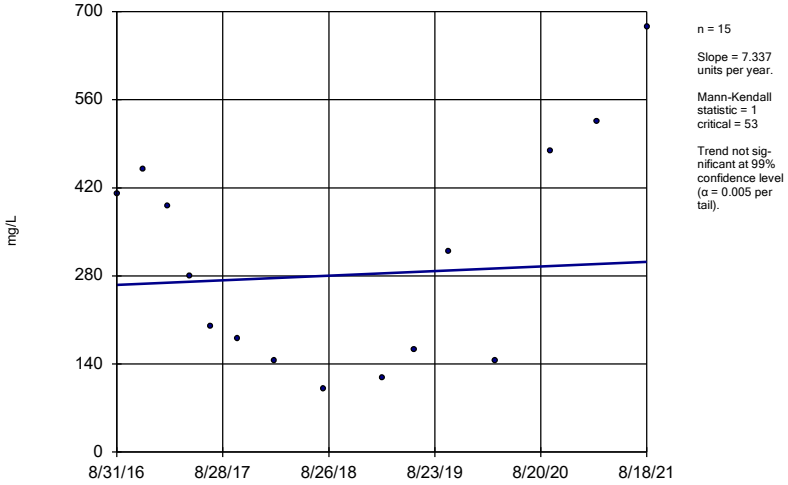
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 15

Slope = 7.337 units per year.

Mann-Kendall statistic = 1 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

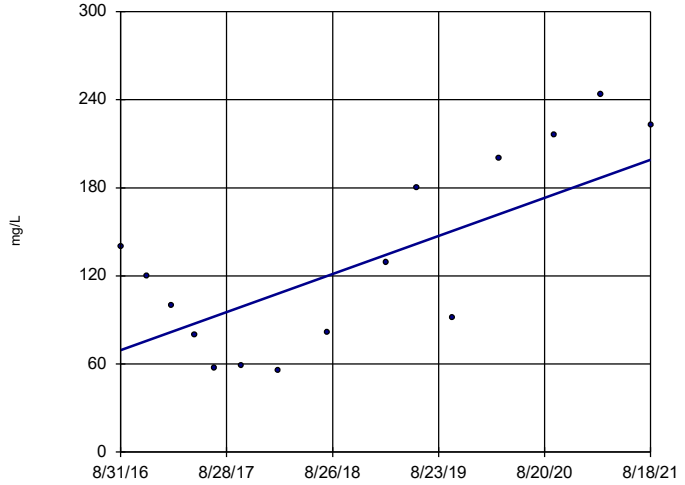
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 15

Slope = 26.07 units per year.

Mann-Kendall statistic = 45 critical = 53

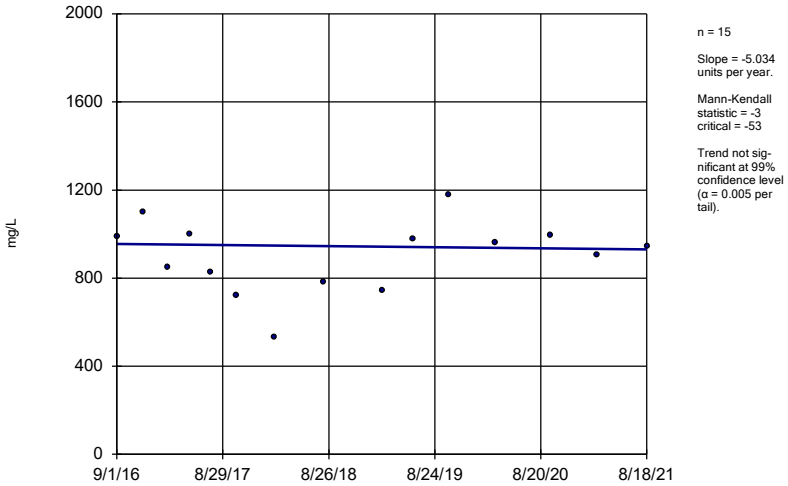
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 15

Slope = -5.034 units per year.

Mann-Kendall statistic = -3 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

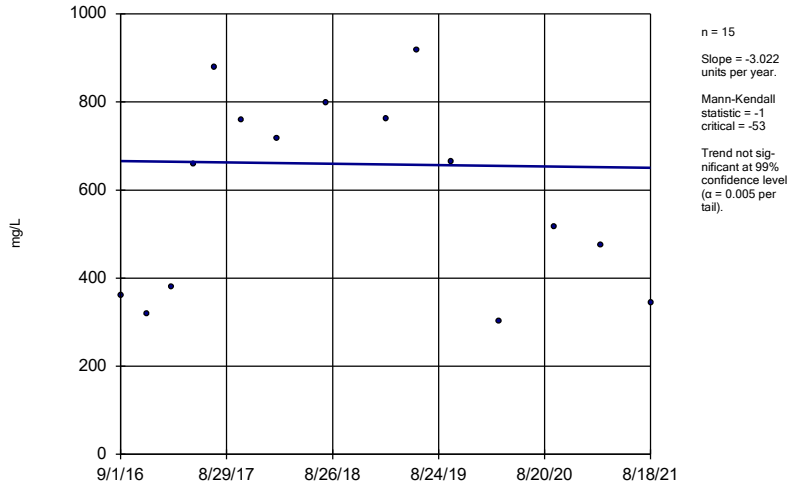
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 15

Slope = -3.022 units per year.

Mann-Kendall statistic = -1 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

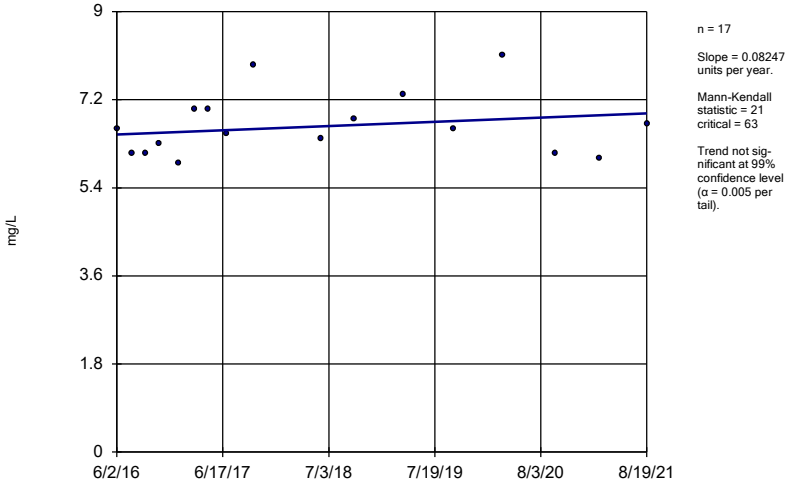
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = 0.08247 units per year.

Mann-Kendall statistic = 21 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

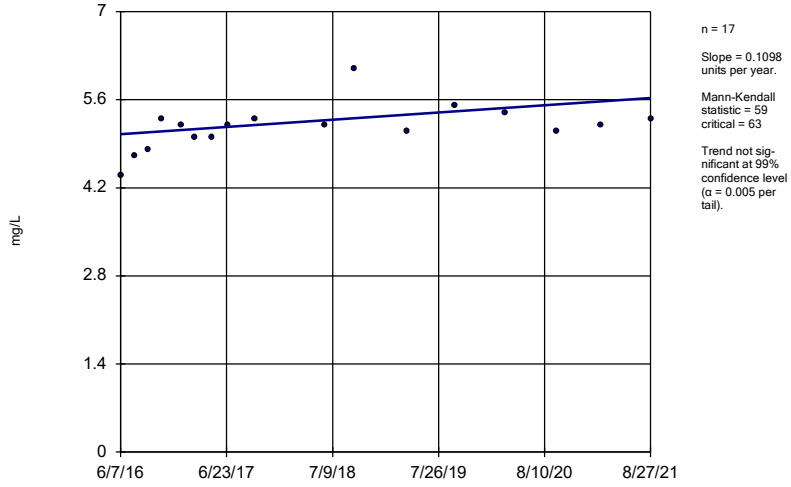
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0.1098 units per year.

Mann-Kendall statistic = 59 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

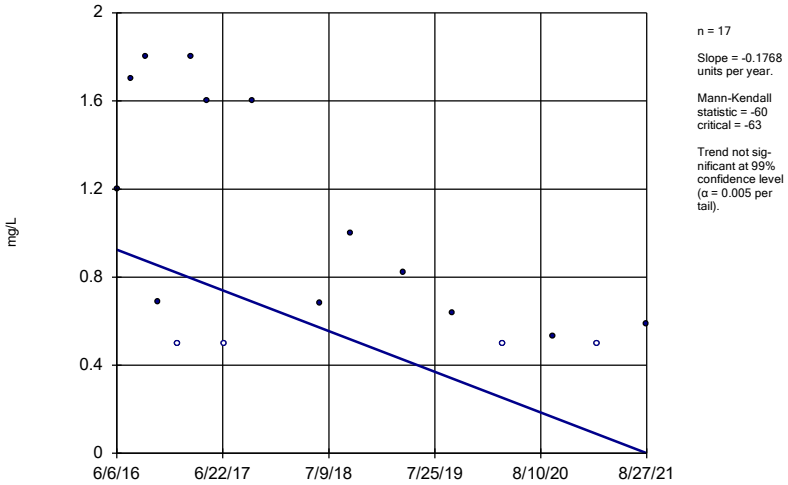
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = -0.1768 units per year.

Mann-Kendall statistic = -60
critical = -63

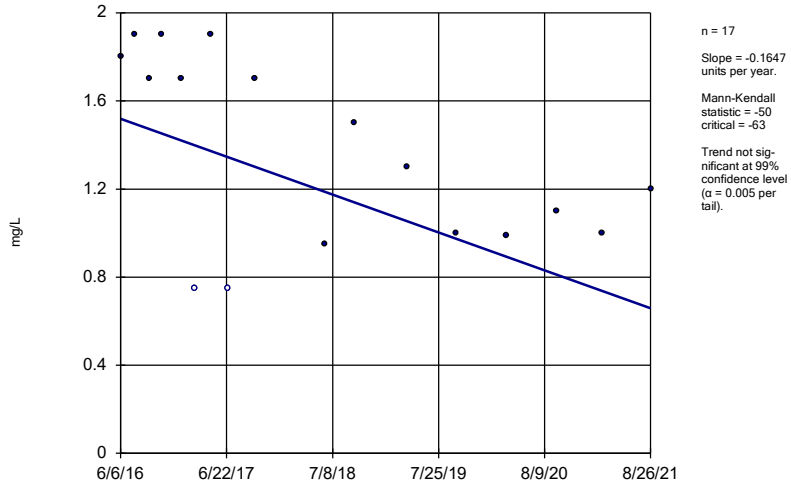
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = -0.1647 units per year.

Mann-Kendall statistic = -50
critical = -63

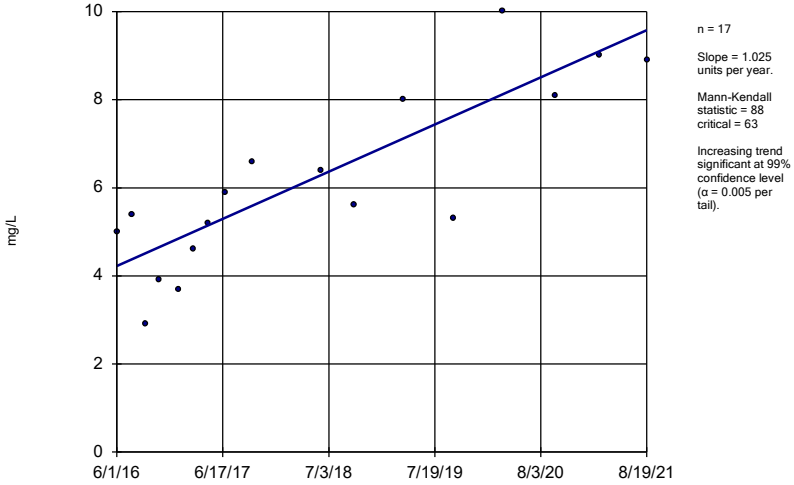
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 1.025 units per year.

Mann-Kendall statistic = 88
critical = 63

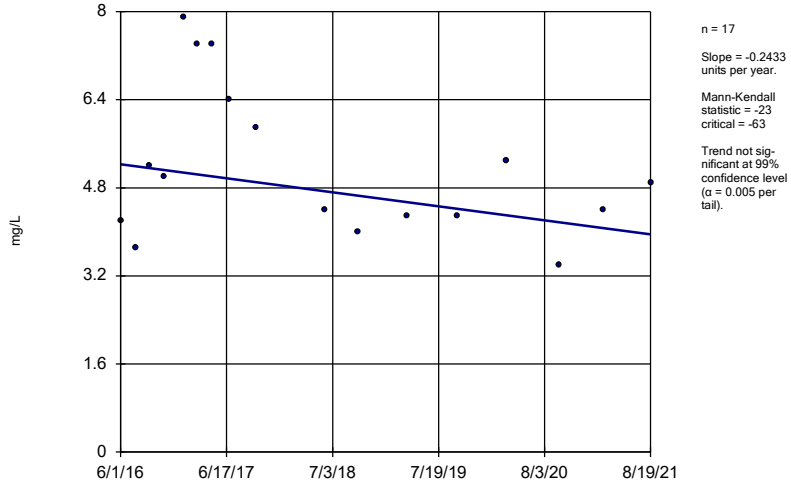
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -0.2433 units per year.

Mann-Kendall statistic = -23
critical = -63

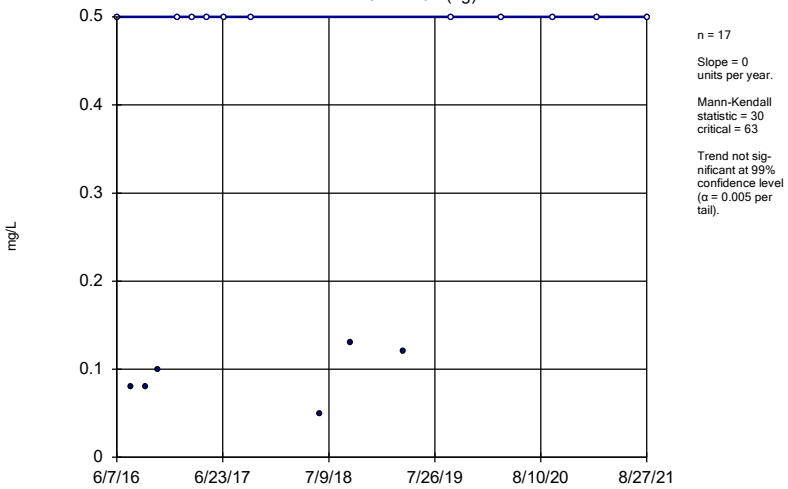
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 30 critical = 63

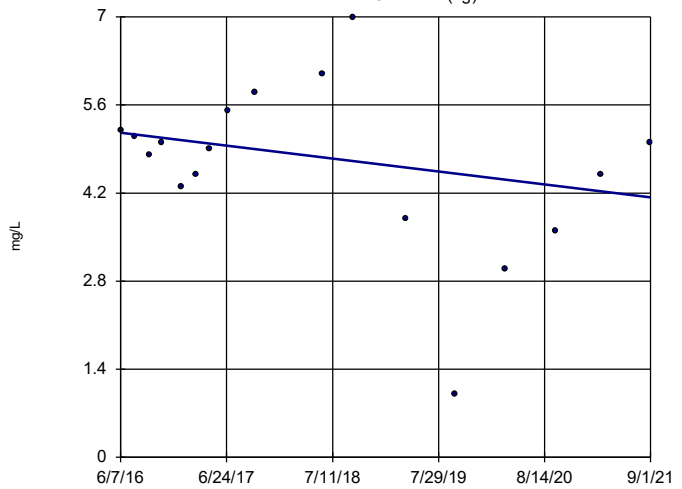
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = -0.1968 units per year.

Mann-Kendall statistic = -22 critical = -63

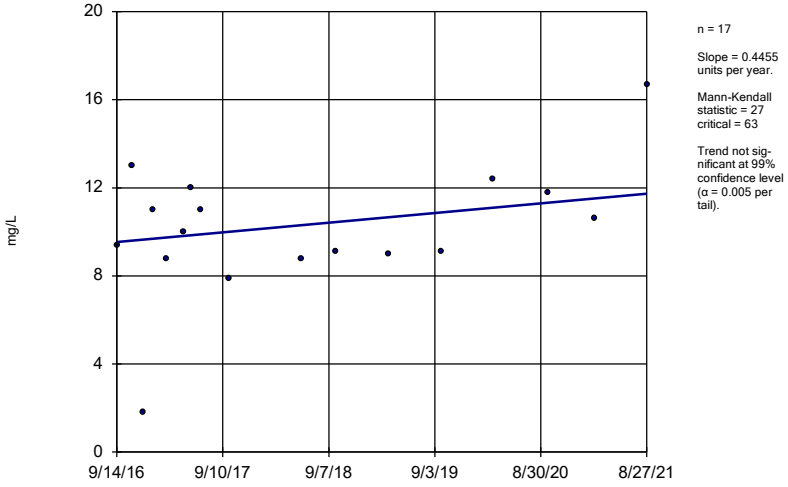
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = 0.4455 units per year.

Mann-Kendall statistic = 27 critical = 63

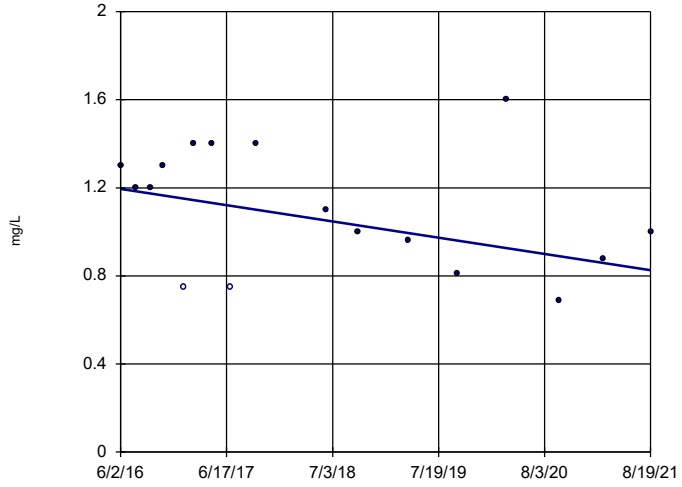
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = -0.07072 units per year.

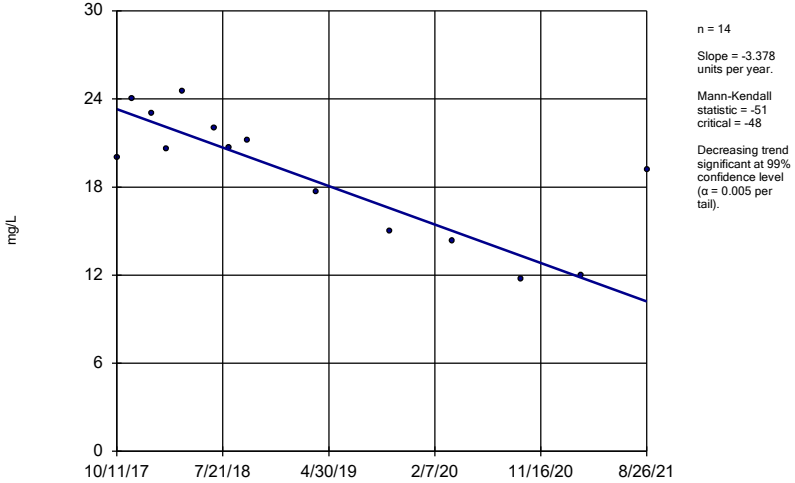
Mann-Kendall statistic = -31 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = -3.378 units per year.

Mann-Kendall statistic = -51
critical = -48

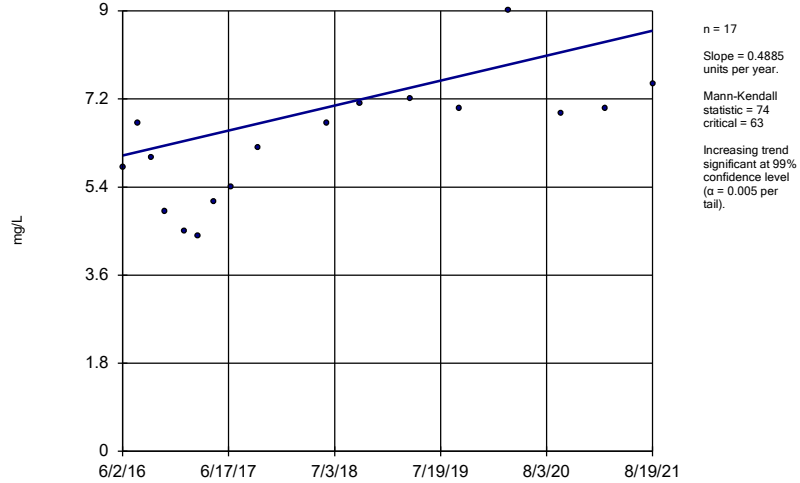
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 0.4885 units per year.

Mann-Kendall statistic = 74
critical = 63

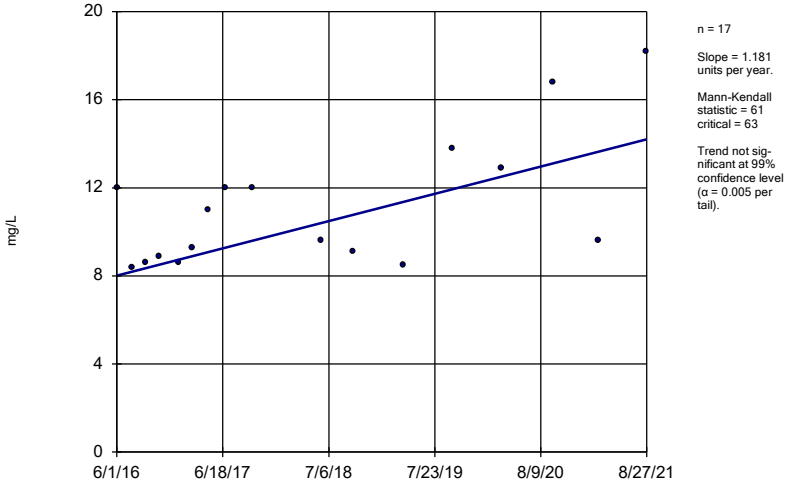
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 1.181 units per year.

Mann-Kendall statistic = 61
critical = 63

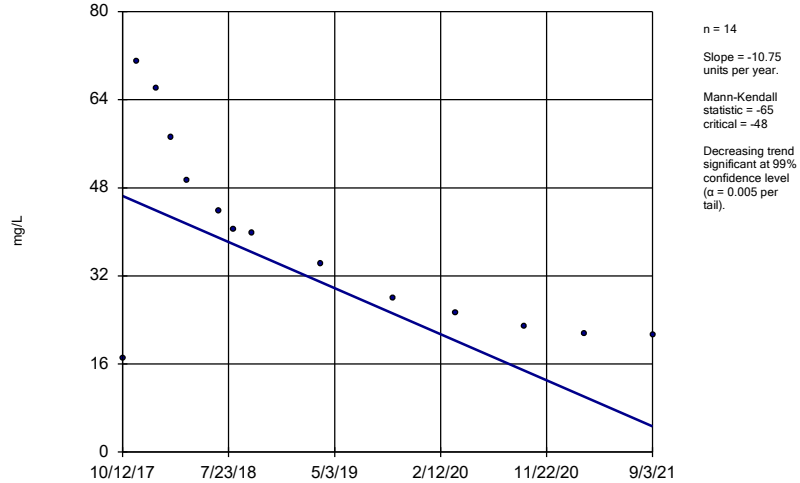
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -10.75 units per year.

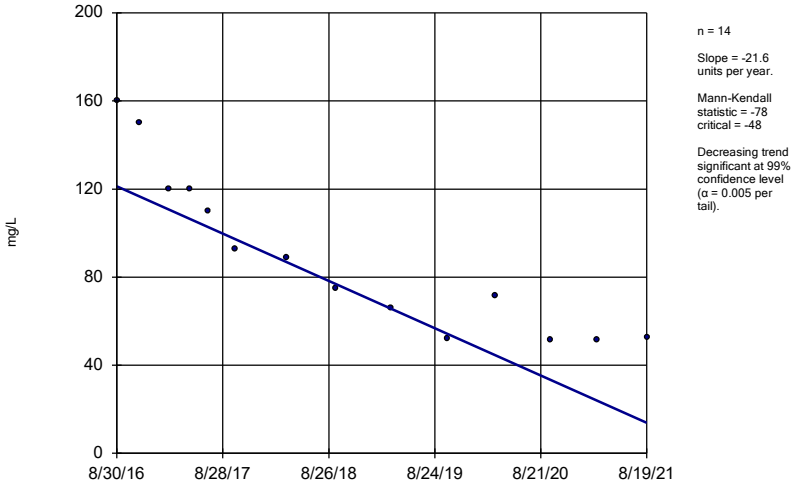
Mann-Kendall statistic = -65
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -21.6 units per year.

Mann-Kendall statistic = -78
critical = -48

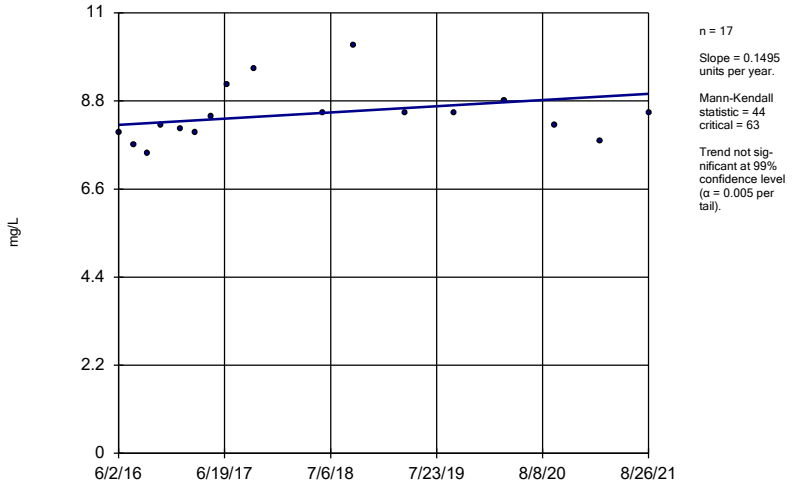
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.1495 units per year.

Mann-Kendall statistic = 44
critical = 63

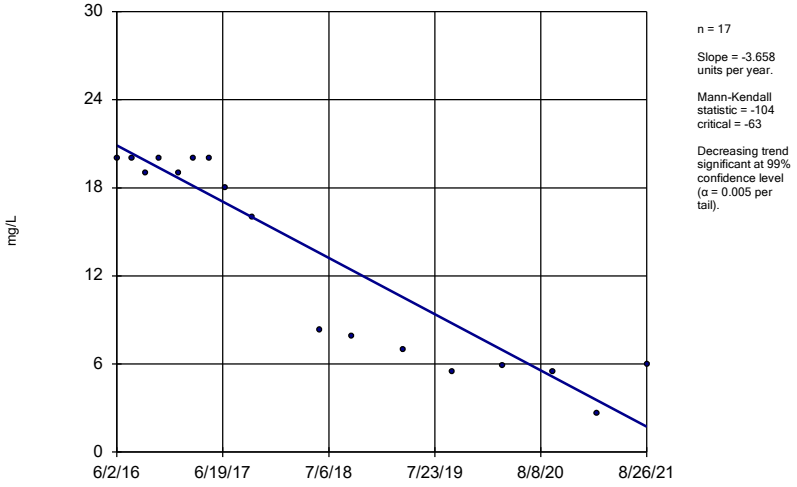
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -3.658 units per year.

Mann-Kendall statistic = -104
critical = -63

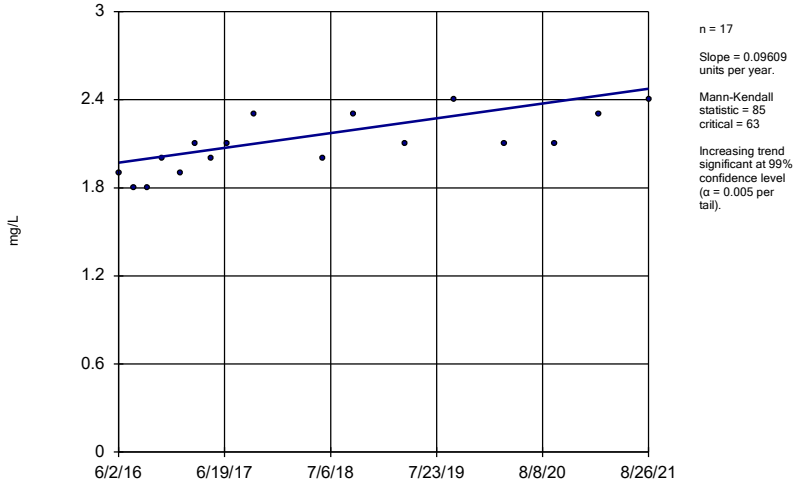
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0.09609 units per year.

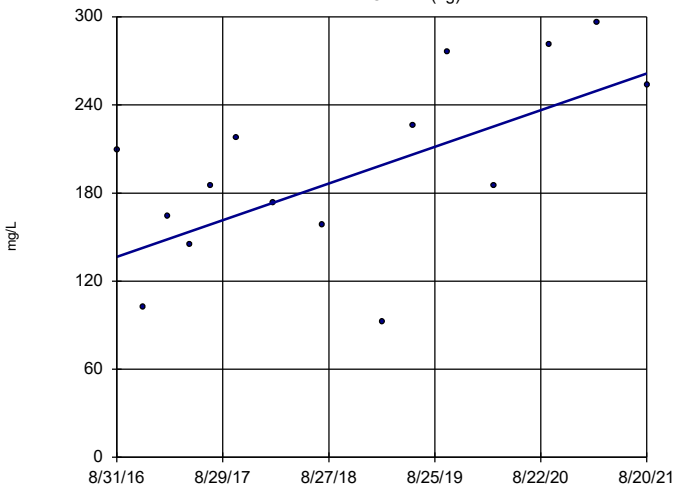
Mann-Kendall statistic = 85
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 25.14 units per year.

Mann-Kendall statistic = 48 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

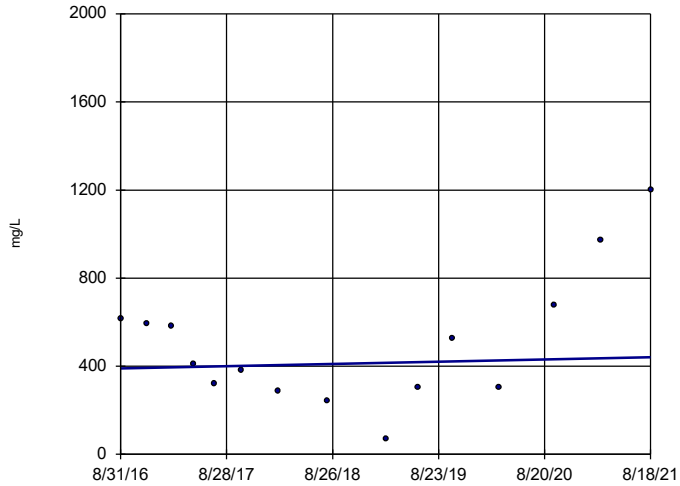
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 15

Slope = 10.15 units per year.

Mann-Kendall statistic = 3 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

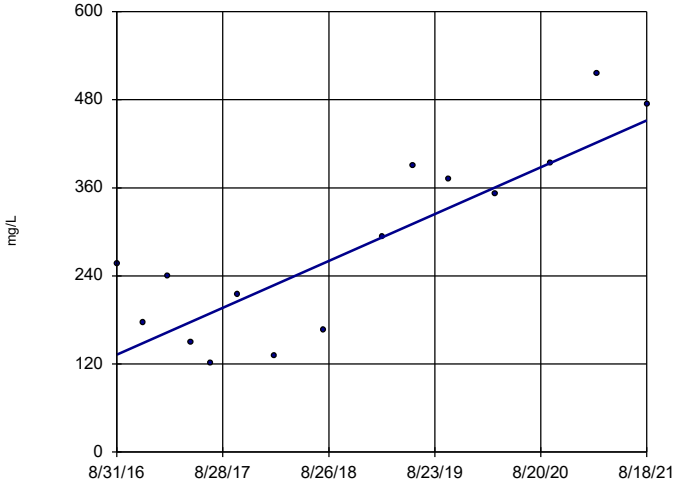
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 15

Slope = 64.22 units per year.

Mann-Kendall statistic = 57 critical = 53

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

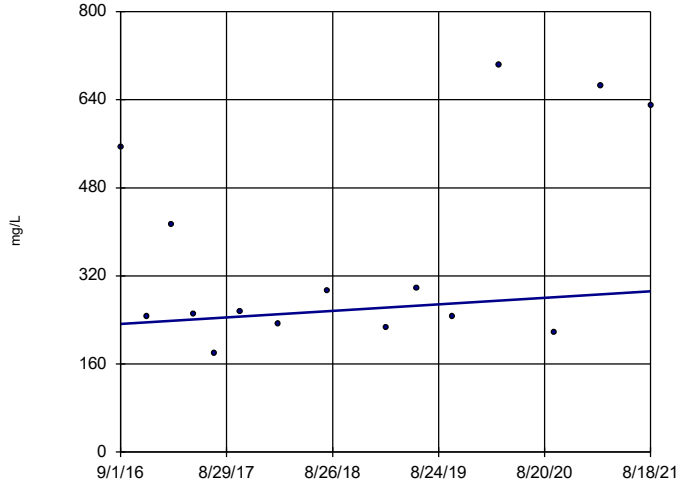
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 15

Slope = 11.94 units per year.

Mann-Kendall statistic = 12 critical = 53

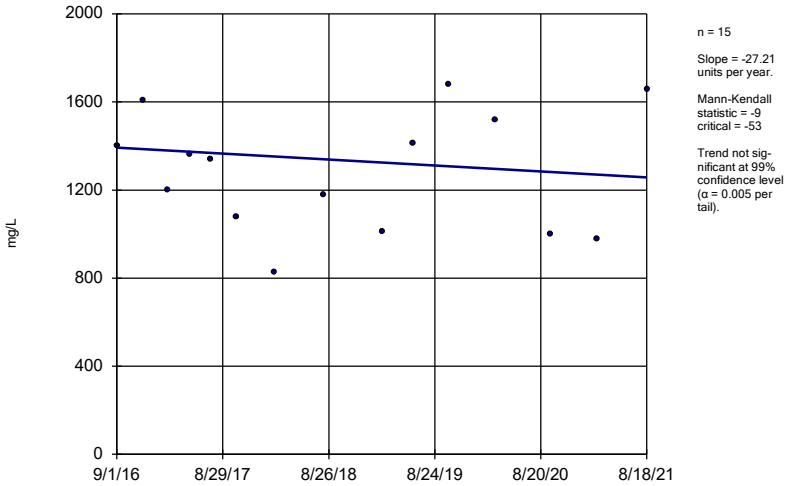
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 15

Slope = -27.21 units per year.

Mann-Kendall statistic = -9
critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

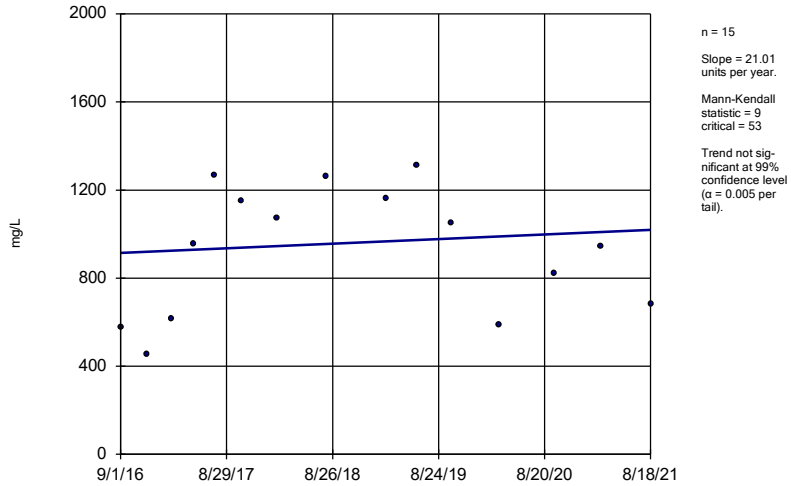
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 15

Slope = 21.01 units per year.

Mann-Kendall statistic = 9
critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

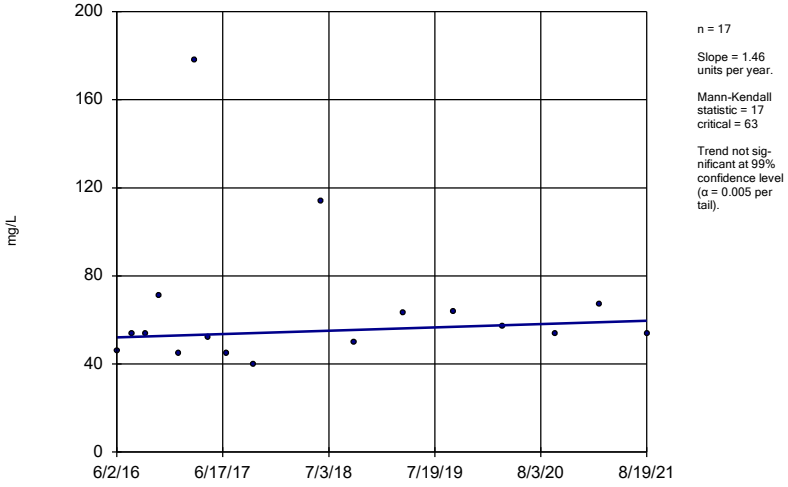
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = 1.46 units per year.

Mann-Kendall statistic = 17
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

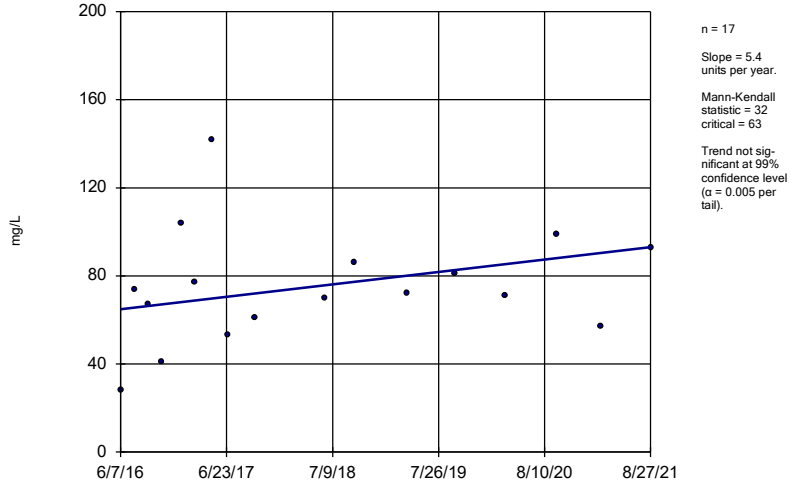
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 5.4 units per year.

Mann-Kendall statistic = 32
critical = 63

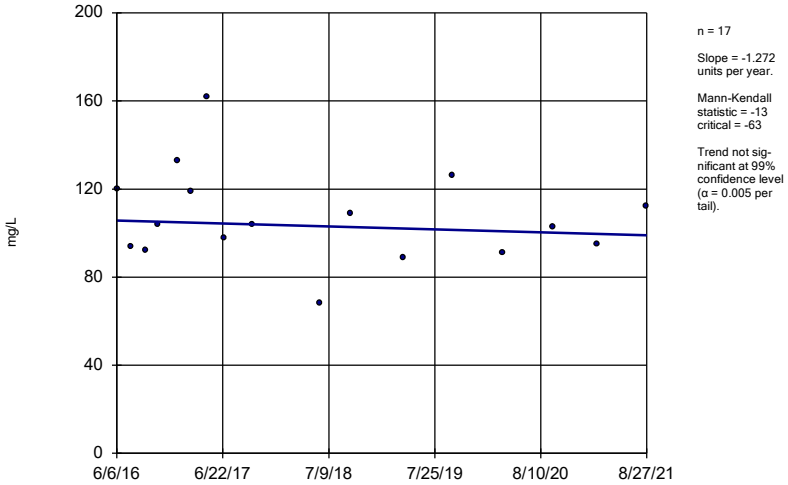
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = -1.272 units per year.

Mann-Kendall statistic = -13 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

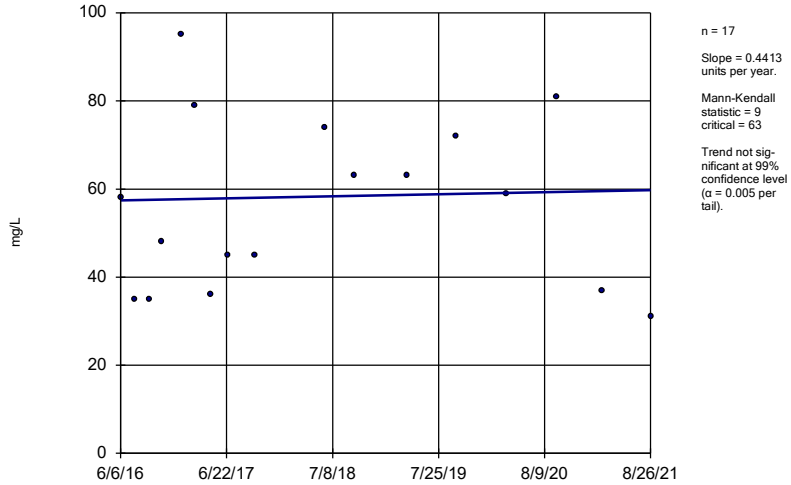
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0.4413 units per year.

Mann-Kendall statistic = 9 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

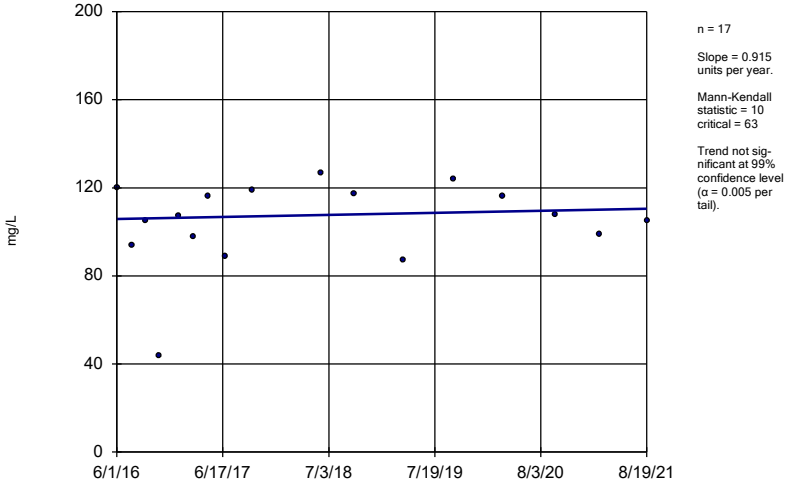
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 0.915 units per year.

Mann-Kendall statistic = 10 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

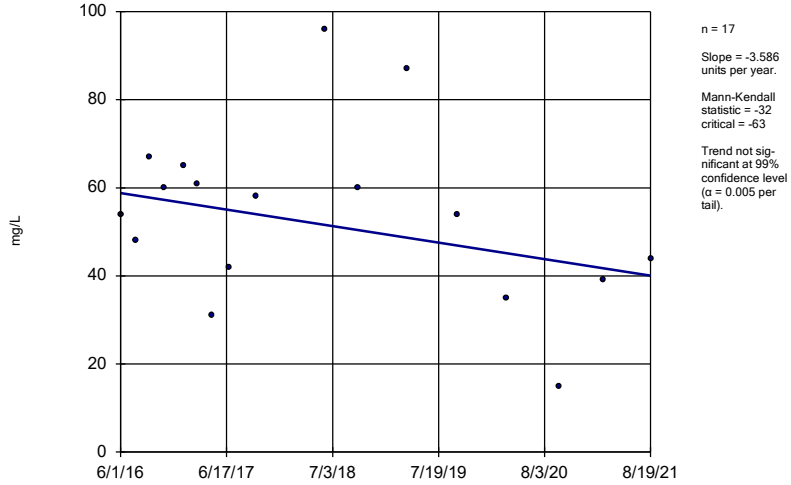
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -3.586 units per year.

Mann-Kendall statistic = -32 critical = -63

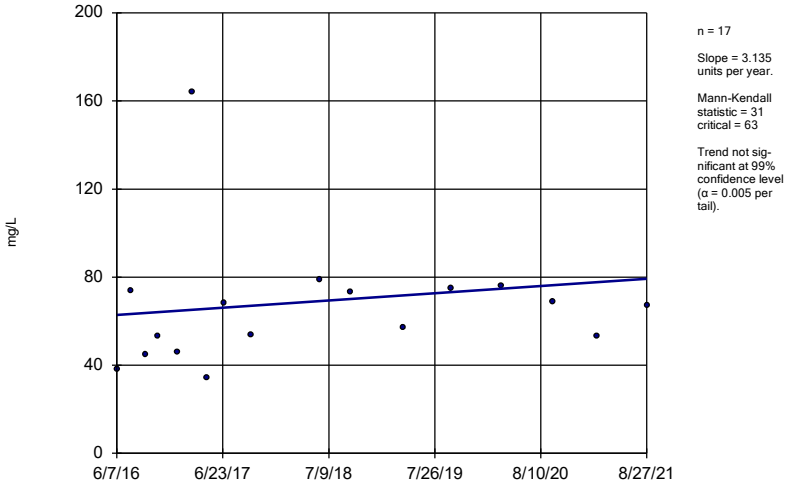
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 3.135 units per year.

Mann-Kendall statistic = 31
critical = 63

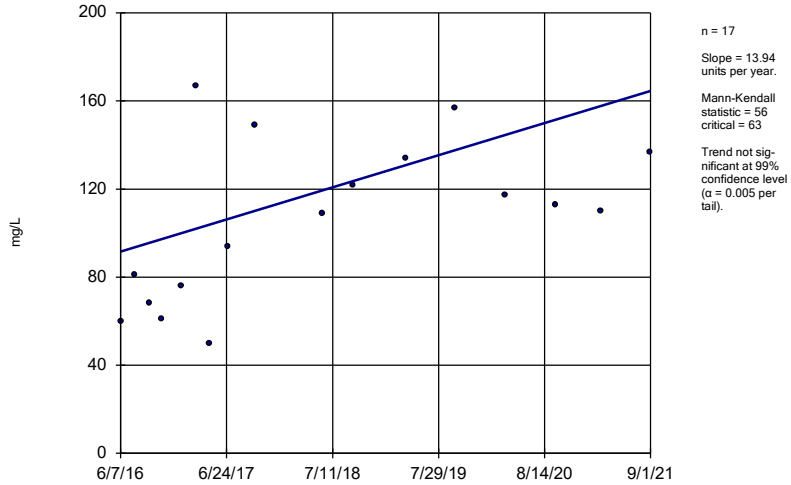
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = 13.94 units per year.

Mann-Kendall statistic = 56
critical = 63

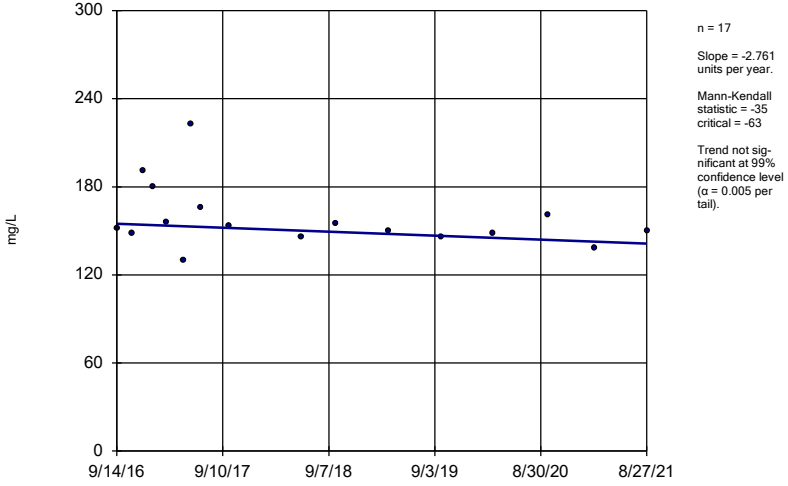
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = -2.761 units per year.

Mann-Kendall statistic = -35
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

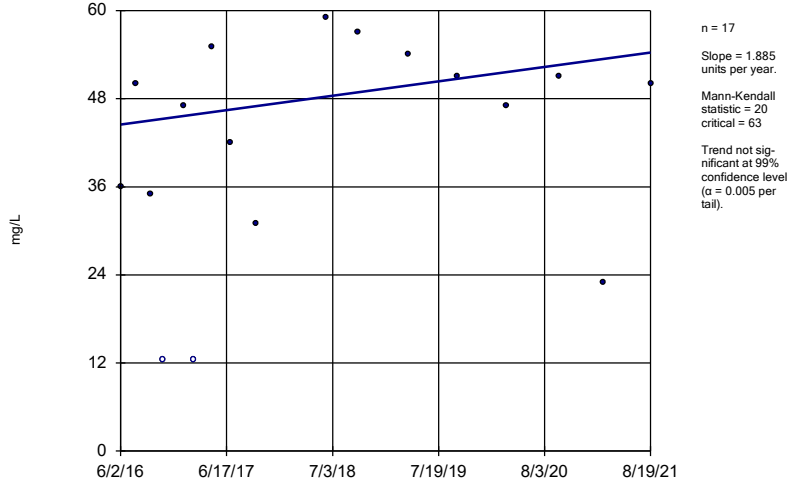
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = 1.885 units per year.

Mann-Kendall statistic = 20
critical = 63

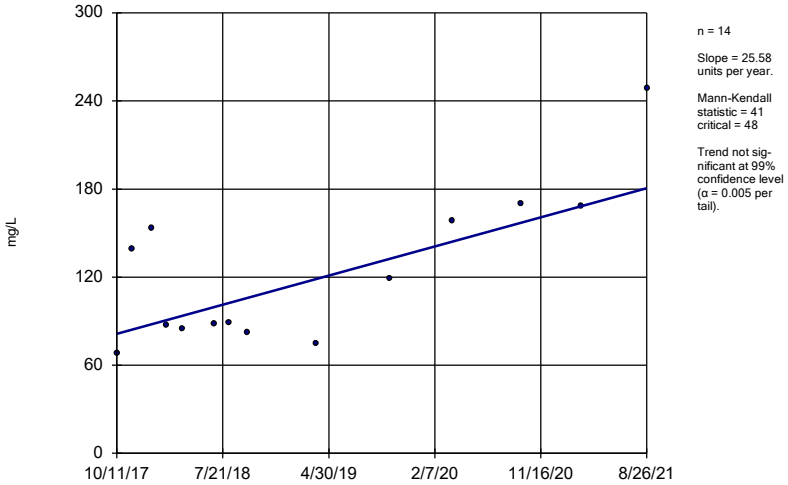
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 25.58 units per year.

Mann-Kendall statistic = 41 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

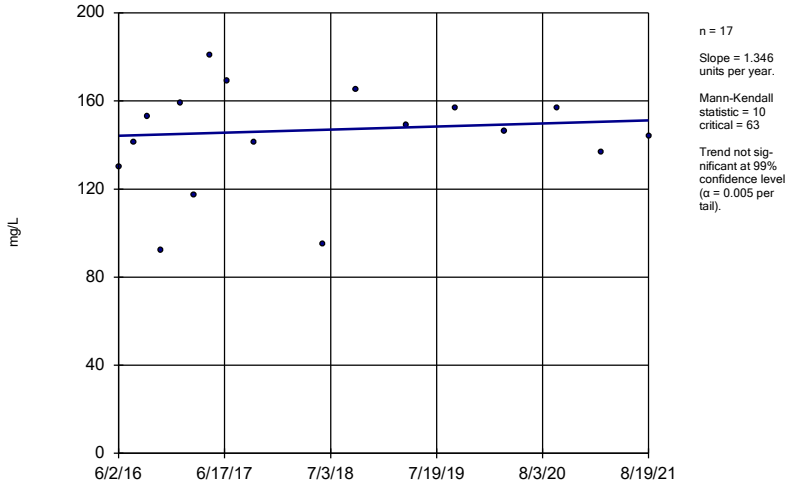
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 1.346 units per year.

Mann-Kendall statistic = 10 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

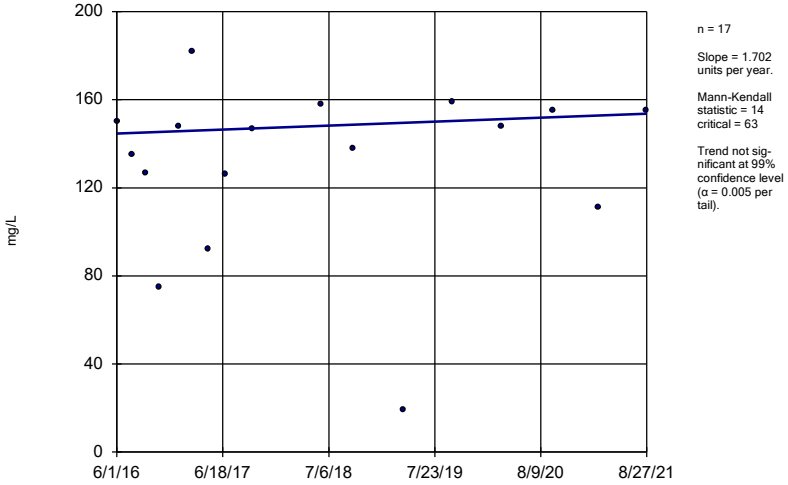
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 1.702 units per year.

Mann-Kendall statistic = 14 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

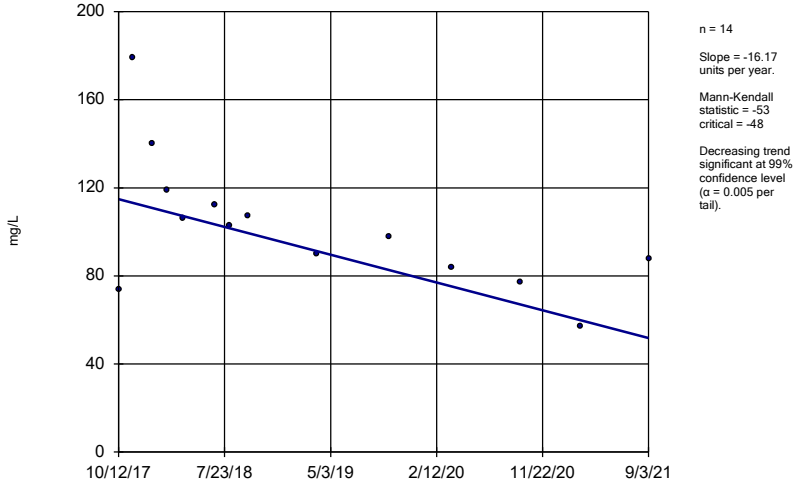
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -16.17 units per year.

Mann-Kendall statistic = -53 critical = -48

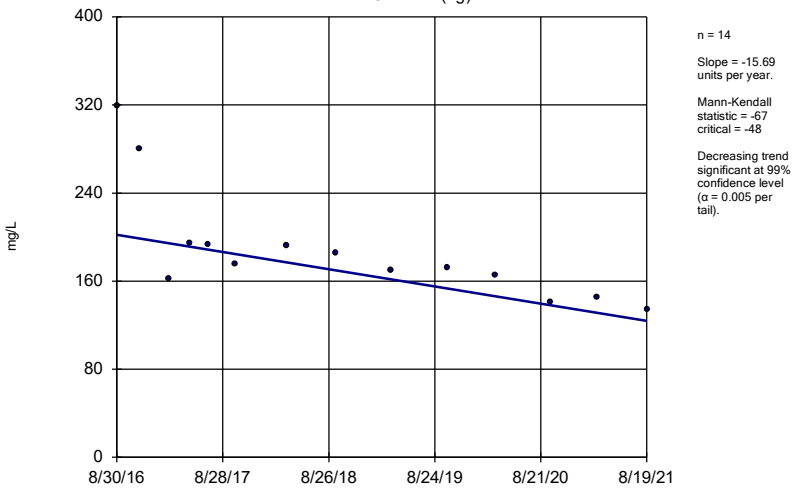
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -15.69 units per year.

Mann-Kendall statistic = -67
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

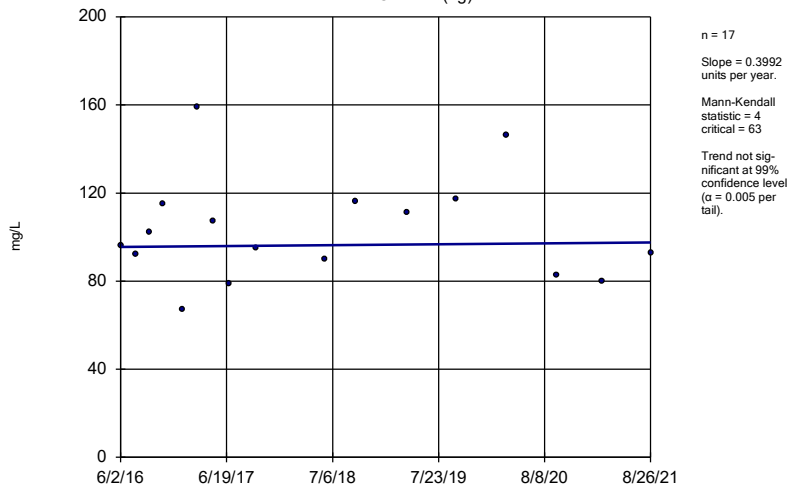
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.3992 units per year.

Mann-Kendall statistic = 4
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

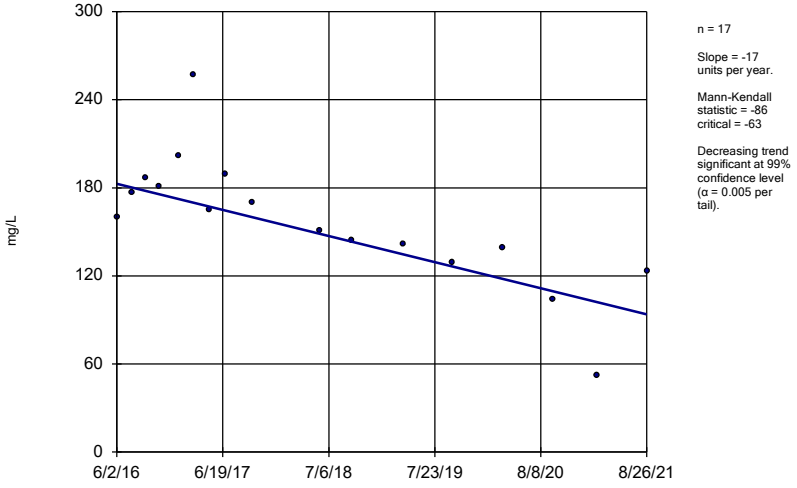
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -17 units per year.

Mann-Kendall statistic = -86
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

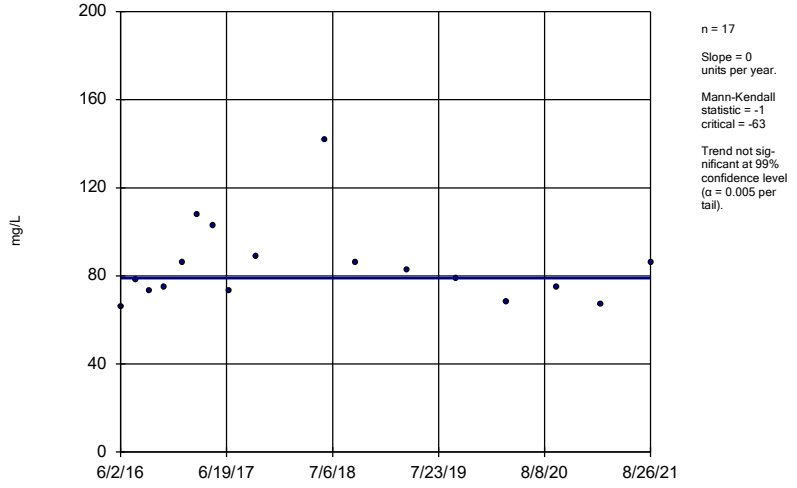
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE J.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 3:43 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

FIGURE K.

YATES LANDFILL GYPSUM STACK GWPS			
Constituent Name	**MCL**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006	0.0047	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.071	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.035	0.035
Combined Radium, Total (pCi/L)	5	6.92	6.92
Fluoride, Total (mg/L)	4	0.68	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.014	0.014
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE L.

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	18	0.002928	0.0003064	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	18	0.002623	0.0008911	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	18	0.002714	0.0008336	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	18	0.003708	0.001916	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	18	0.004547	0.001319	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	18	0.004073	0.001584	72.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	18	0.004498	0.001462	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0024	0.00092	0.01	No	18	0.002131	0.001646	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	18	0.002994	0.002096	50	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	18	0.05153	0.01848	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.0526	0.04389	2	No	18	0.04824	0.007204	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03169	0.01989	2	No	18	0.02579	0.009758	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	18	0.02429	0.008831	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	18	0.02087	0.01027	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.06957	0.04746	2	No	18	0.05852	0.01827	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	18	0.001095	0.001387	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	18	0.001584	0.001459	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007298	0.0003243	0.004	No	18	0.0006344	0.0006449	5.556	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	18	0.002513	0.001121	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.00219	0.0007502	0.004	No	18	0.001619	0.001192	5.556	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	18	0.0003978	0.0001705	72.22	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	18	0.0003794	0.0001762	66.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	18	0.0003511	0.0001623	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	18	0.0004778	0.00009428	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009532	0.000579	0.005	No	18	0.0007661	0.0003093	5.556	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.0015	0.001	0.1	No	18	0.001967	0.001676	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	18	0.00402	0.001888	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.0009	0.1	No	18	0.002006	0.001665	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	18	0.003843	0.001926	72.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.0024	0.0018	0.1	No	18	0.002311	0.0007332	5.556	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	18	0.001966	0.001412	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	18	0.002074	0.001962	27.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02103	0.0104	0.035	No	18	0.01571	0.008785	5.556	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	18	0.005689	0.002558	61.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.0031	0.0006	0.035	No	18	0.002331	0.002179	16.67	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	18	0.003723	0.00212	72.22	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	18	0.005	0	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.037	0.5505	6.92	No	14	0.7939	0.3436	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.466	0.6398	6.92	No	14	1.053	0.5835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.073	0.2435	6.92	No	14	0.7206	0.7039	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6158	0.2042	6.92	No	14	0.41	0.2905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8872	0.2357	6.92	No	14	0.6058	0.4502	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.117	0.4306	6.92	No	14	0.8079	0.5687	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	17	0.08882	0.02118	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	17	0.1165	0.1218	70.59	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	17	0.1285	0.1251	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	17	0.09882	0.02027	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.056	4	No	17	0.1135	0.0967	52.94	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	17	0.1012	0.05134	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	18	0.0008955	0.0003042	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.00007	0.0013	No	18	0.0006402	0.0004642	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.001	0.000082	0.0013	No	18	0.0006459	0.0004571	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.001	0.000041	0.0013	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00007	0.0013	No	18	0.0006945	0.0004455	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.03	No	15	0.007229	0.01179	20	None	No	0.01	NP (normality)

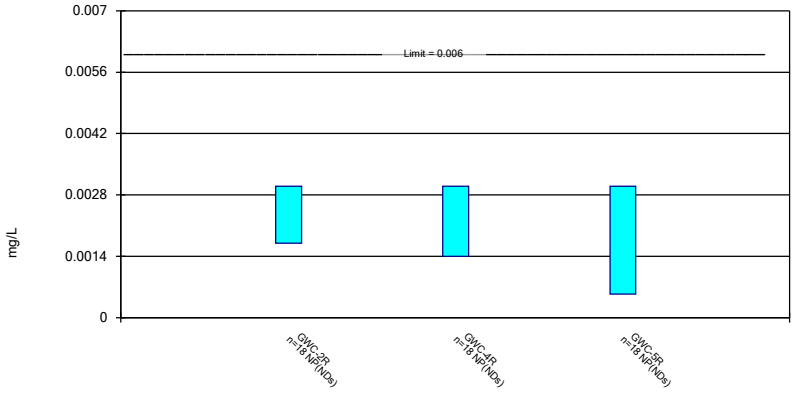
Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No	15	0.00928	0.01074	20	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	15	0.02421	0.012	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	15	0.02037	0.0141	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	15	0.01669	0.01473	53.33	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	15	0.01018	0.01249	26.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	18	0.0001922	0.00003323	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	18	0.0001949	0.00007887	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	18	0.0001921	0.00003347	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	18	0.0001821	0.00005289	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	18	0.006067	0.004707	22.22	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.003979	0.002554	0.05	No	18	0.003267	0.001178	11.11	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.0091	0.0021	0.05	No	18	0.0058	0.004065	16.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.005	0.003	0.05	No	18	0.004839	0.002778	5.556	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.0263	0.01833	0.05	No	18	0.02232	0.006591	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004023	0.002459	0.05	No	18	0.003317	0.001294	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	18	0.0009483	0.0002192	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	18	0.0009474	0.0002232	94.44	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

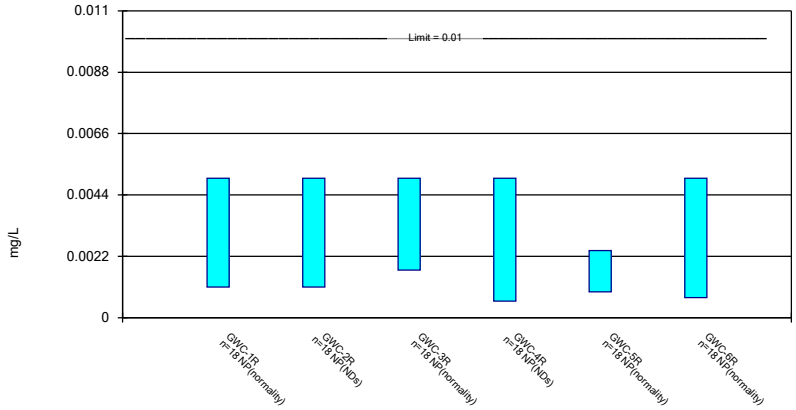


Constituent: Antimony Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

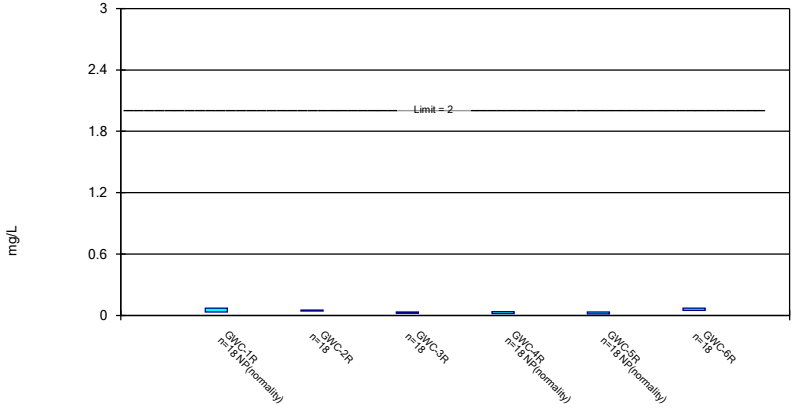


Constituent: Arsenic Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

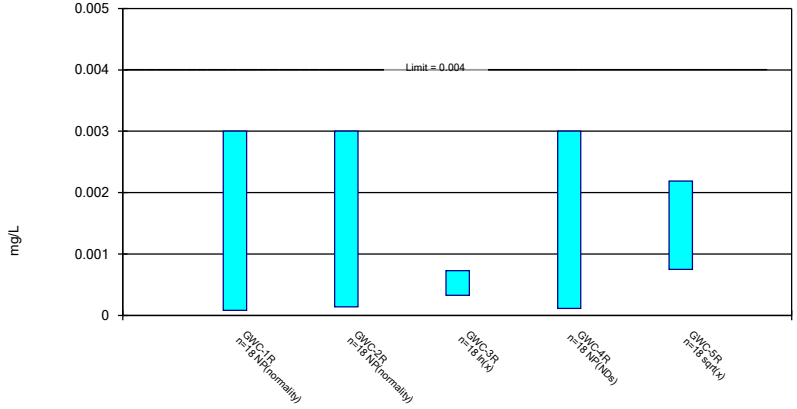


Constituent: Barium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

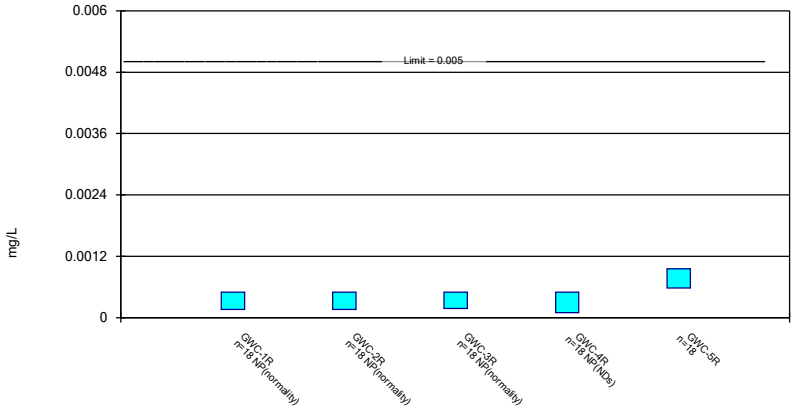
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

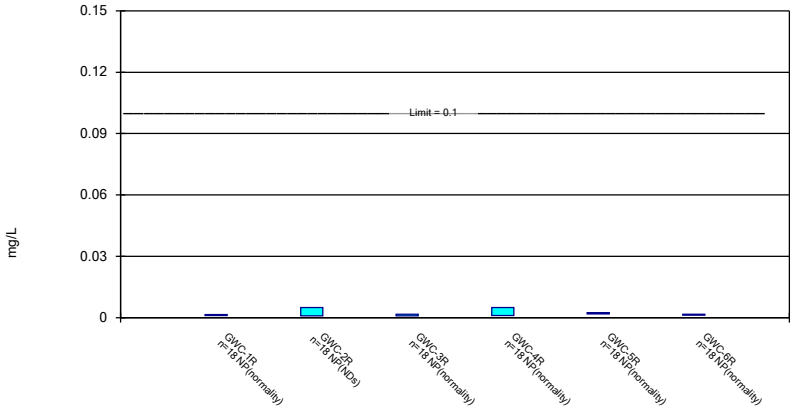
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

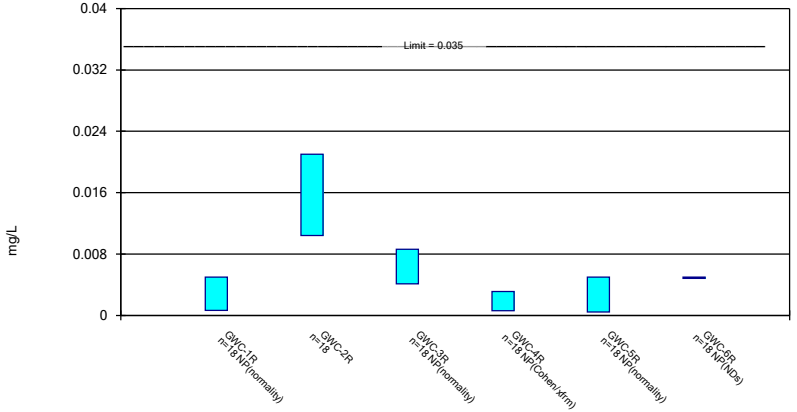
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

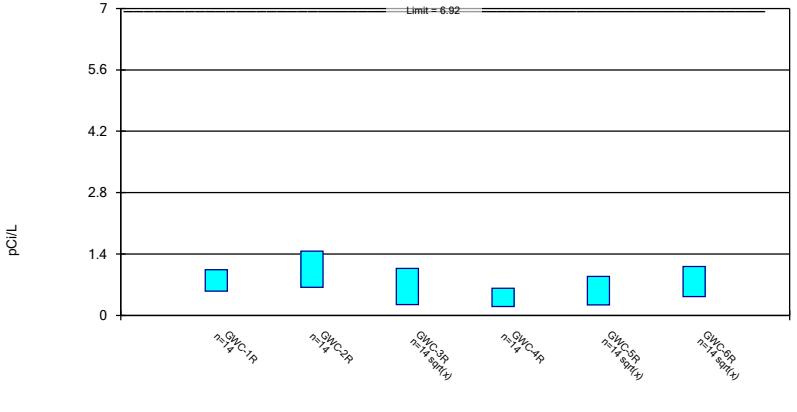
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

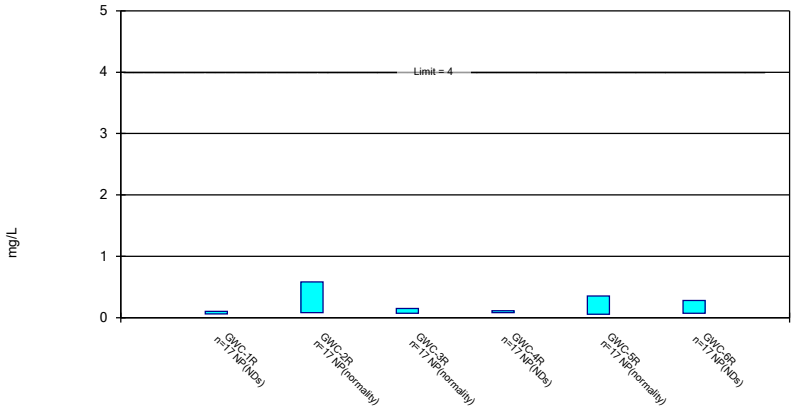
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

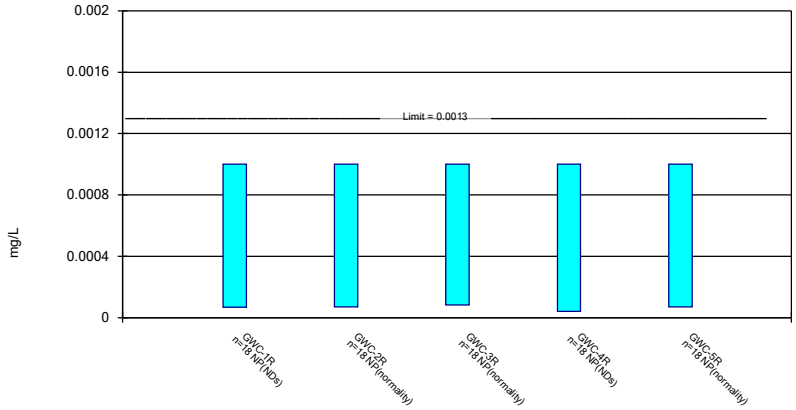


Constituent: Fluoride Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

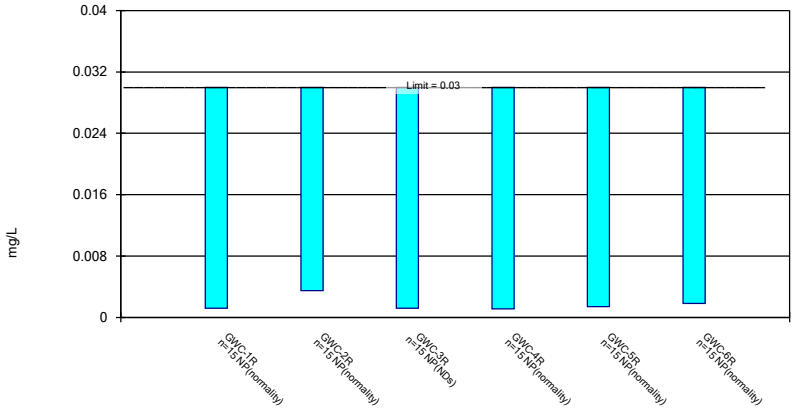


Constituent: Lead Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

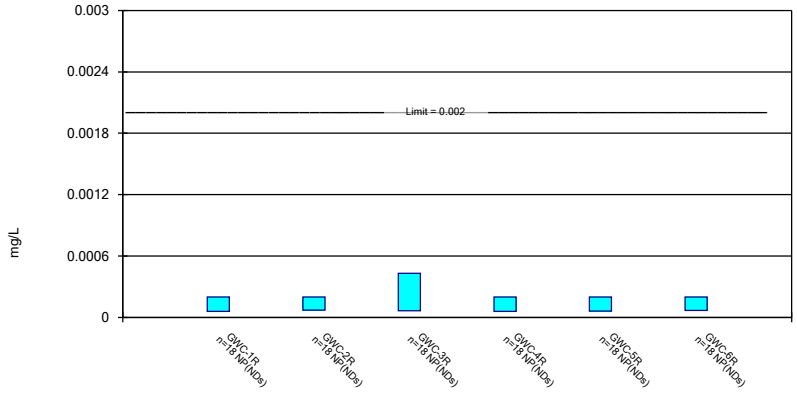


Constituent: Lithium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

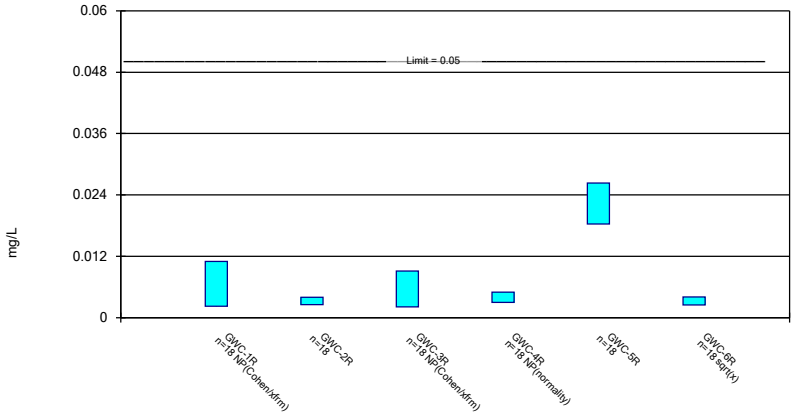
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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.



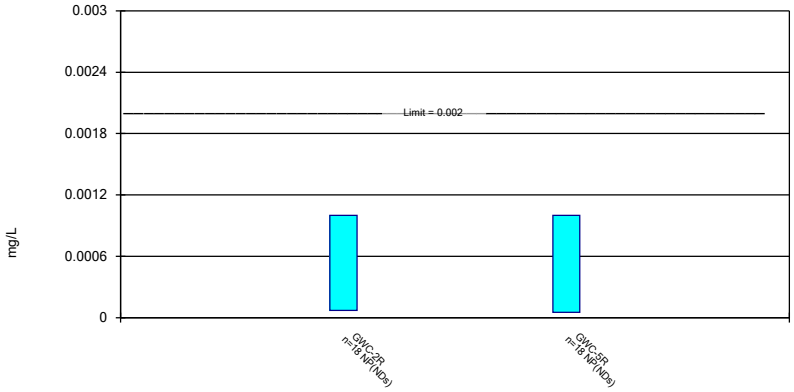
Constituent: Selenium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
2/16/2016		<0.003	<0.003
2/17/2016	<0.003		
8/31/2016	<0.003		
9/1/2016		0.0014 (J)	<0.003
11/28/2016	<0.003		
11/30/2016		<0.003	
12/1/2016			<0.003
2/22/2017	<0.003		
2/24/2017		<0.003	<0.003
5/10/2017	<0.003	<0.003	<0.003
7/17/2017			<0.003
7/18/2017	<0.003	<0.003	
10/16/2017			<0.003
10/17/2017	<0.003	<0.003	
2/20/2018	<0.003	<0.003	
2/21/2018			<0.003
8/7/2018			<0.003
8/8/2018	<0.003	<0.003	
2/26/2019	<0.003	<0.003	<0.003
6/12/2019	<0.003	0.00028 (J)	
6/13/2019			<0.003
8/19/2019		<0.003	
8/20/2019	<0.003		
8/21/2019			0.00054 (J)
10/9/2019	<0.003		<0.003
10/10/2019		<0.003	
3/18/2020	<0.003	<0.003	<0.003
8/27/2020			<0.003
8/28/2020	<0.003	<0.003	
9/22/2020	0.0017 (J)	0.00053 (J)	
9/23/2020			0.00031 (J)
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/18/2021	<0.003	<0.003	<0.003
Mean	0.002928	0.002623	0.002714
Std. Dev.	0.0003064	0.0008911	0.0008336
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.0014	0.00054

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016		<0.005				
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
3/17/2020	<0.005		0.0016 (J)			<0.005
3/18/2020		<0.005		<0.005	0.0008 (J)	
8/27/2020	0.0011 (J)				0.0016 (J)	0.0011 (J)
8/28/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005	<0.005	<0.005		
9/23/2020					0.00092 (J)	<0.005
3/1/2021	0.0022 (J)	0.0011 (J)		<0.005		
3/2/2021			0.0017 (J)		0.0024 (J)	
3/3/2021						<0.005
8/18/2021	0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005
Mean	0.003708	0.004547	0.004073	0.004498	0.002131	0.002994
Std. Dev.	0.001916	0.001319	0.001584	0.001462	0.001646	0.002096
Upper Lim.	0.005	0.005	0.005	0.005	0.0024	0.005
Lower Lim.	0.0011	0.0011	0.0017	0.00059	0.00092	0.00072

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	0.044		0.038	0.032	0.04	0.068
2/17/2016		0.059				
8/31/2016	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
3/17/2020	0.031		0.024			0.031
3/18/2020		0.04		0.038	0.015	
8/27/2020	0.072				0.013	0.045
8/28/2020		0.044	0.014	0.026		
9/22/2020	0.068	0.04	0.014	0.026		
9/23/2020					0.012	0.044
3/1/2021	0.063	0.043		0.035		
3/2/2021			0.015		0.011	
3/3/2021						0.043
8/18/2021	0.076	0.033	0.014	0.04	0.013	0.035
Mean	0.05153	0.04824	0.02579	0.02429	0.02087	0.05852
Std. Dev.	0.01848	0.007204	0.009758	0.008831	0.01027	0.01827
Upper Lim.	0.0711	0.0526	0.03169	0.035	0.0345	0.06957
Lower Lim.	0.0322	0.04389	0.01989	0.017	0.013	0.04746

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.003		0.00084 (J)	<0.003	0.00048 (J)
2/17/2016		<0.003			
8/31/2016	0.0001 (J)	<0.003	0.0003 (J)		
9/1/2016				<0.003	0.0005 (J)
11/28/2016		<0.003			
11/29/2016	<0.003				
11/30/2016			0.0004 (J)	<0.003	
12/1/2016					0.0003 (J)
2/22/2017		<0.003			
2/23/2017	<0.003		0.0003 (J)		
2/24/2017				<0.003	0.0002 (J)
5/9/2017	8E-05 (J)		0.0002 (J)		
5/10/2017		<0.003		<0.003	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003	
10/16/2017					0.0006 (J)
10/17/2017	0.0001 (J)	<0.003		<0.003	
10/18/2017			0.0004 (J)		
2/20/2018		<0.003		<0.003	
2/21/2018	<0.003		<0.003		<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018		7E-05 (J)		<0.003	
2/26/2019	7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.003	0.0015 (J)
6/12/2019		<0.003		<0.003	
6/13/2019	<0.003		0.00051 (J)		0.0015 (J)
8/19/2019				<0.003	
8/20/2019	0.0001 (J)	0.00017 (J)			
8/21/2019			0.00046 (J)		0.0028 (J)
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019			0.00039 (J)	<0.003	
3/17/2020	7.6E-05 (J)		0.00095 (J)		
3/18/2020		0.00012 (J)		<0.003	0.0028 (J)
8/27/2020	0.00024 (J)				0.0023 (J)
8/28/2020		0.0002 (J)	0.0005 (J)	<0.003	
9/22/2020	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020					0.0023 (J)
3/1/2021	0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021			0.00081		0.0037
8/18/2021	0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
Mean	0.001095	0.001584	0.0006344	0.002513	0.001619
Std. Dev.	0.001387	0.001459	0.0006449	0.001121	0.001192
Upper Lim.	0.003	0.003	0.0007298	0.003	0.00219
Lower Lim.	8E-05	0.00014	0.0003243	0.00011	0.0007502

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)
2/17/2016		<0.0005			
8/31/2016	<0.0005	0.0001 (J)	<0.0005		
9/1/2016				0.0001 (J)	0.0005 (J)
11/28/2016		0.0001 (J)			
11/29/2016	8E-05 (J)				
11/30/2016			<0.0005	<0.0005	
12/1/2016					0.0004 (J)
2/22/2017		<0.0005			
2/23/2017	<0.0005		<0.0005		
2/24/2017				<0.0005	0.0003 (J)
5/9/2017	<0.0005		<0.0005		
5/10/2017		<0.0005		<0.0005	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	
10/16/2017					0.0006 (J)
10/17/2017	<0.0005	<0.0005		<0.0005	
10/18/2017			<0.0005		
2/20/2018		<0.0005		<0.0005	
2/21/2018	<0.0005		<0.0005		<0.0005
8/7/2018	<0.0005		<0.0005		0.00083 (J)
8/8/2018		<0.0005		<0.0005	
2/26/2019	<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)
6/12/2019		<0.0005		<0.0005	
6/13/2019	<0.0005		0.00021 (J)		0.00073 (J)
8/19/2019				<0.0005	
8/20/2019	<0.0005	<0.0005			
8/21/2019			<0.0005		0.0012 (J)
10/9/2019	<0.0005	<0.0005			0.0011 (J)
10/10/2019			0.00018 (J)	<0.0005	
3/17/2020	<0.0005		0.00037 (J)		
3/18/2020		<0.0005		<0.0005	0.0012 (J)
8/27/2020	0.00012 (J)				0.00091 (J)
8/28/2020		0.00015 (J)	0.00014 (J)	<0.0005	
9/22/2020	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005	
9/23/2020					0.00094 (J)
3/1/2021	0.00013 (J)	0.00016 (J)		<0.0005	
3/2/2021			0.00021 (J)		0.0011
8/18/2021	0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001
Mean	0.0003978	0.0003794	0.0003511	0.0004778	0.0007661
Std. Dev.	0.0001705	0.0001762	0.0001623	9.428E-05	0.0003093
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0009532
Lower Lim.	0.00016	0.00016	0.00018	0.0001	0.000579

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		0.0017	<0.005	0.0028	0.001 (J)
2/17/2016		<0.005				
8/31/2016	0.0012 (J)	<0.005	0.0013 (J)			
9/1/2016				<0.005	0.0021 (J)	0.0015 (J)
11/28/2016		<0.005				
11/29/2016	0.0009 (J)					0.0014 (J)
11/30/2016			0.001 (J)	0.0013 (J)		
12/1/2016					0.0017 (J)	
2/22/2017		<0.005				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.005	0.0018 (J)	
5/9/2017	0.0011 (J)		0.0016 (J)			
5/10/2017		0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)
7/17/2017					0.0017 (J)	
7/18/2017	0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.005		<0.005		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		0.0024 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.0019 (J)	
6/12/2019		<0.005		<0.005		
6/13/2019	0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)
8/19/2019				0.00051 (J)		
8/20/2019	0.0011 (J)	<0.005				0.0017 (J)
8/21/2019			0.001 (J)		0.0024 (J)	
10/8/2019						0.0014 (J)
10/9/2019	0.0012 (J)	0.00059 (J)			0.0024 (J)	
10/10/2019			0.0014 (J)	0.00057 (J)		
3/17/2020	0.001 (J)		0.0013 (J)			0.0013 (J)
3/18/2020		0.0004 (J)		<0.005	0.0023 (J)	
8/27/2020	0.0013 (J)				0.0022 (J)	0.0012 (J)
8/28/2020		0.00057 (J)	0.00088 (J)	<0.005		
9/22/2020	0.0012 (J)	<0.005	0.0011 (J)	<0.005		
9/23/2020					0.002 (J)	0.0015 (J)
3/1/2021	0.0012 (J)	<0.005		<0.005		
3/2/2021			0.001 (J)		0.0021 (J)	
3/3/2021						0.0014 (J)
8/18/2021	0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)
Mean	0.001967	0.00402	0.002006	0.003843	0.002311	0.001966
Std. Dev.	0.001676	0.001888	0.001665	0.001926	0.0007332	0.001412
Upper Lim.	0.0015	0.005	0.0017	0.005	0.0024	0.0017
Lower Lim.	0.001	0.0008	0.0009	0.0011	0.0018	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	0.0082	<0.005	<0.005
2/17/2016		0.024				
8/31/2016	0.0006 (J)	0.0239	<0.005			
9/1/2016				0.0023 (J)	<0.005	<0.005
11/28/2016		0.0189				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	0.0008 (J)		
12/1/2016					<0.005	
2/22/2017		0.0184				
2/23/2017	0.0009 (J)		<0.005			<0.005
2/24/2017				0.0025 (J)	<0.005	
5/9/2017	0.0008 (J)		<0.005			
5/10/2017		0.0213		<0.005	<0.005	<0.005
7/17/2017					<0.005	
7/18/2017	0.0032 (J)	0.0261	<0.005	0.0005 (J)		<0.005
10/16/2017					<0.005	
10/17/2017	0.0007 (J)	0.0182		0.0006 (J)		
10/18/2017			<0.005			<0.005
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		<0.005	
8/8/2018		0.014		0.001 (J)		
2/25/2019						<0.005
2/26/2019	<0.005	0.029	<0.005	<0.005	<0.005	
6/12/2019		0.013		0.00078 (J)		
6/13/2019	0.00033 (J)		0.01		<0.005	<0.005
8/19/2019				0.001 (J)		
8/20/2019	0.00079 (J)	0.014				<0.005
8/21/2019			0.0016 (J)		0.00034 (J)	
10/8/2019						<0.005
10/9/2019	0.00064 (J)	0.024			0.00031 (J)	
10/10/2019			<0.005	0.00099 (J)		
3/17/2020	0.00054 (J)		0.011			<0.005
3/18/2020		0.019		0.0031 (J)	0.00044 (J)	
8/27/2020	0.00081 (J)				<0.005	<0.005
8/28/2020		0.0072	0.0041 (J)	0.00049 (J)		
9/22/2020	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)		
9/23/2020					<0.005	<0.005
3/1/2021	0.00083 (J)	0.00074 (J)		0.0016 (J)		
3/2/2021			0.0086		0.00039 (J)	
3/3/2021						<0.005
8/18/2021	0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)	<0.005
Mean	0.002074	0.01571	0.005689	0.002331	0.003723	0.005
Std. Dev.	0.001962	0.008785	0.002558	0.002179	0.00212	0
Upper Lim.	0.005	0.02103	0.0086	0.0031	0.005	0.005
Lower Lim.	0.00064	0.0104	0.0041	0.0006	0.00044	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
11/28/2016		0.387 (U)				
11/29/2016	0.551 (U)					0.232 (U)
11/30/2016			0.0236 (U)	0.477 (U)		
12/1/2016					0.0588 (U)	
2/22/2017		0.739 (U)				
2/23/2017	0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017				0.305 (U)	0.487 (U)	
5/9/2017	0.434 (U)		0.0367 (U)			
5/10/2017		0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017					0.528 (U)	
7/18/2017	1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017					0.558 (U)	
10/17/2017	0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017			0.706 (U)			0.239 (U)
2/19/2018						0.973 (D)
2/20/2018		1.64 (D)		1.03 (UD)		
2/21/2018	0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018						0.866 (U)
8/7/2018	0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018		2.01		0.0378 (U)		
8/19/2019				0.637 (U)		
8/20/2019	1.25 (U)	1.22				0.409 (U)
8/21/2019			0.774 (U)		1.82	
10/8/2019						0.91 (U)
10/9/2019	0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019			0.433 (U)	0.525 (U)		
3/17/2020	1.4		2.84			2.5
3/18/2020		1.3		0.866 (U)	0.788 (U)	
8/27/2020	0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020		1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020					0 (U)	0.96 (U)
3/1/2021	0.966 (U)	0.976		0.349 (U)		
3/2/2021			1.13 (U)		0.686 (U)	
3/3/2021						0.721 (U)
8/18/2021	0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
Mean	0.7939	1.053	0.7206	0.41	0.6058	0.8079
Std. Dev.	0.3436	0.5835	0.7039	0.2905	0.4502	0.5687
Upper Lim.	1.037	1.466	1.073	0.6158	0.8872	1.117
Lower Lim.	0.5505	0.6398	0.2435	0.2042	0.2357	0.4306

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016				0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016		0.03 (J)				
11/29/2016	0.04 (J)					0.05 (J)
11/30/2016			0.03 (J)	0.11 (J)		
12/1/2016					<0.1	
2/22/2017		0.04 (J)				
2/23/2017	0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017				0.08 (J)	0.03 (J)	
5/9/2017	0.06 (J)		<0.1			
5/10/2017		0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017					<0.1	
10/17/2017	<0.1	<0.1		<0.1		
10/18/2017			0.22 (J)			<0.1
2/19/2018						<0.1
2/20/2018		<0.1		<0.1		
2/21/2018	<0.1		<0.1		<0.1	
8/6/2018						<0.1
8/7/2018	<0.1		<0.1		<0.1	
8/8/2018		<0.1		<0.1		
2/25/2019						<0.1
2/26/2019	<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019		0.58		<0.1		
6/13/2019	<0.1		0.58		<0.1	<0.1
8/19/2019				<0.1		
8/20/2019	<0.1	<0.1				<0.1
8/21/2019			0.037 (J)		<0.1	
10/8/2019						<0.1
10/9/2019	<0.1	<0.1			0.35	
10/10/2019			<0.1	<0.1		
3/17/2020	<0.1		0.1 (J)			<0.1
3/18/2020		<0.1		<0.1	<0.1	
8/27/2020	<0.1				0.064 (J)	<0.1
8/28/2020		<0.1	0.097 (J)	<0.1		
9/22/2020	<0.1	<0.1	<0.1	<0.1		
9/23/2020					<0.1	<0.1
3/1/2021	<0.1	<0.1		<0.1		
3/2/2021			0.15		0.094 (J)	
3/3/2021						<0.1
8/18/2021	<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
Mean	0.08882	0.1165	0.1285	0.09882	0.1135	0.1012
Std. Dev.	0.02118	0.1218	0.1251	0.02027	0.0967	0.05134
Upper Lim.	0.1	0.58	0.15	0.11	0.35	0.28
Lower Lim.	0.06	0.08	0.07	0.08	0.056	0.07

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.001		<0.001	<0.001	<0.001
2/17/2016		<0.001			
8/31/2016	<0.001	<0.001	0.0001 (J)		
9/1/2016				<0.001	<0.001
11/28/2016		<0.001			
11/29/2016	<0.001				
11/30/2016			<0.001	<0.001	
12/1/2016					<0.001
2/22/2017		<0.001			
2/23/2017	<0.001		<0.001		
2/24/2017				<0.001	<0.001
5/9/2017	<0.001		<0.001		
5/10/2017		0.0001 (J)		<0.001	<0.001
7/17/2017					<0.001
7/18/2017	<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017					<0.001
10/17/2017	<0.001	<0.001		<0.001	
10/18/2017			8E-05 (J)		
2/20/2018		<0.001		<0.001	
2/21/2018	<0.001		<0.001		<0.001
8/7/2018	<0.001		<0.001		<0.001
8/8/2018		<0.001		<0.001	
2/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001	
6/13/2019	<0.001		<0.001		<0.001
8/19/2019				<0.001	
8/20/2019	<0.001	6.1E-05 (J)			
8/21/2019			8.2E-05 (J)		7E-05 (J)
10/9/2019	5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)
10/10/2019			<0.001	<0.001	
3/17/2020	<0.001		0.00015 (J)		
3/18/2020		<0.001		<0.001	7.9E-05 (J)
8/27/2020	6.7E-05 (J)				4.9E-05 (J)
8/28/2020		8.4E-05 (J)	5.4E-05 (J)	<0.001	
9/22/2020	<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)	
9/23/2020					0.00019 (J)
3/1/2021	<0.001	7E-05 (J)		<0.001	
3/2/2021			9.6E-05 (J)		5.4E-05 (J)
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0008955	0.0006402	0.0006459	0.0009467	0.0006945
Std. Dev.	0.0003042	0.0004642	0.0004571	0.000226	0.0004455
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.7E-05	7E-05	8.2E-05	4.1E-05	7E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0024 (J)	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
11/28/2016		<0.03				
11/29/2016	<0.03					<0.03
11/30/2016			<0.03	<0.03		
12/1/2016					<0.03	
2/22/2017		0.0036 (J)				
2/23/2017	<0.03		<0.03			0.0028 (J)
2/24/2017				<0.03	<0.03	
5/9/2017	0.002 (J)		<0.03			
5/10/2017		0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017					<0.03	
7/18/2017	<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017					<0.03	
10/17/2017	0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017			<0.03			0.0026 (J)
2/19/2018						<0.03
2/20/2018		<0.03		<0.03		
2/21/2018	0.0014 (J)		<0.03		<0.03	
8/6/2018						<0.03
8/7/2018	0.001 (J)		<0.03		<0.03	
8/8/2018		0.0031 (J)		<0.03		
8/19/2019				0.00094 (J)		
8/20/2019	0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019			<0.03		0.0015 (J)	
10/8/2019						0.0021 (J)
10/9/2019	0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019			<0.03	0.0013 (J)		
3/17/2020	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020		0.0053 (J)		<0.03	0.0017 (J)	
8/27/2020	0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020		0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020					0.0012 (J)	0.0023 (J)
3/1/2021	0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021			0.00088 (J)		0.0016 (J)	
3/3/2021						0.0018 (J)
8/18/2021	0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
Mean	0.007229	0.00928	0.02421	0.02037	0.01669	0.01018
Std. Dev.	0.01179	0.01074	0.012	0.0141	0.01473	0.01249
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.0012	0.0035	0.0012	0.0011	0.0014	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016		<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
5/6/2020	<0.0002					<0.0002
5/7/2020		<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020	<0.0002				<0.0002	<0.0002
8/28/2020		<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020					<0.0002	<0.0002
3/1/2021	<0.0002	<0.0002		<0.0002		
3/2/2021			<0.0002		<0.0002	
3/3/2021						<0.0002
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001922	0.0001928	0.0001949	0.0001921	0.0001922	0.0001821
Std. Dev.	3.323E-05	3.041E-05	7.887E-05	3.347E-05	3.3E-05	5.289E-05
Upper Lim.	0.0002	0.0002	0.00043	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	7.1E-05	6.4E-05	5.8E-05	6E-05	6.7E-05

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.01		<0.01	0.0047 (J)	0.022	<0.01
2/17/2016		<0.01				
8/31/2016	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.01			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		0.0127	
8/6/2018						0.0047 (J)
8/7/2018	<0.01		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.01		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
3/17/2020	0.0017 (J)		0.0096 (J)			0.0026 (J)
3/18/2020		0.0032 (J)		0.0046 (J)	0.028	
8/27/2020	0.011				0.021	0.0027 (J)
8/28/2020		0.0037 (J)	0.0045 (J)	0.0031 (J)		
9/22/2020	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)		
9/23/2020					0.026	0.0031 (J)
3/1/2021	0.011	0.0043 (J)		0.0041 (J)		
3/2/2021			0.012		0.019	
3/3/2021						0.002 (J)
8/18/2021	0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)
Mean	0.006067	0.003267	0.0058	0.004839	0.02232	0.003317
Std. Dev.	0.004707	0.001178	0.004065	0.002778	0.006591	0.001294
Upper Lim.	0.011	0.003979	0.0091	0.005	0.0263	0.004023
Lower Lim.	0.0022	0.002554	0.0021	0.003	0.01833	0.002459

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
2/16/2016		<0.001
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
9/1/2016		<0.001
11/28/2016	<0.001	
12/1/2016		<0.001
2/22/2017	<0.001	
2/24/2017		<0.001
5/10/2017	<0.001	<0.001
7/17/2017		<0.001
7/18/2017	<0.001	
10/16/2017		<0.001
10/17/2017	<0.001	
2/20/2018	<0.001	
2/21/2018		<0.001
8/7/2018		<0.001
8/8/2018	<0.001	
2/26/2019	<0.001	<0.001
6/12/2019	<0.001	
6/13/2019		<0.001
8/20/2019	<0.001	
8/21/2019		5.3E-05 (J)
10/9/2019	<0.001	<0.001
3/18/2020	<0.001	<0.001
8/27/2020		<0.001
8/28/2020	<0.001	
9/22/2020	<0.001	
9/23/2020		<0.001
3/1/2021	<0.001	
3/2/2021		<0.001
8/18/2021	<0.001	<0.001
Mean	0.0009483	0.0009474
Std. Dev.	0.0002192	0.0002232
Upper Lim.	0.001	0.001
Lower Lim.	7E-05	5.3E-05

February 2022 Event

GROUNDWATER STATS CONSULTING

July 29, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates CCR Landfill Gypsum Stack
Background Update & February 2022 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the background update and February 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Landfill Gypsum Stack. 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 United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I

        - **Gypsum Landfill:** GWA-2
        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Note that in addition to the wells listed above, upgradient well GWA-1, which has not been sampled since 2004, provides historical information about upgradient groundwater quality for the majority of Georgia EPD constituents. GWA-1 is included on the time series graphs and box plots as reference data, but no formal statistics for this well are included in this report.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR and Georgia EPD programs consist of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium
- **Georgia EPD Appendix I & II:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of all downgradient well/constituent pairs containing 100% non-detects for Appendix I, II & IV parameters follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct interwell prediction limits and upper tolerance limits for Appendix III and IV parameters, respectively. The absence of samples from some upgradient wells due to the reasons discussed above affects the overall number of samples used for construction of interwell limits among all units at Plant Yates. Background data sets from upgradient wells may

appear to be incomplete but this is a result of no sample collection requirements for all of the same sample events which does not greatly affect the calculated limits.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (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).

In time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. For intrawell prediction limits, the most recent reporting limit for a given well/constituent will be substituted for any non-detect values. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method 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 in the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. 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. Power curves were based on the following statistical methods:

Georgia EPD Appendix I & II Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 15 (Silver is not detected above the reporting limit in all downgradient wells)
- # Downgradient wells: 6

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (fluoride and pH)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, sulfate, and TDS)
- # Constituents: 7
- # Downgradient wells: 6

During this analysis, all data were re-evaluated for the purpose of updating prediction limits as described below.

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals, as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with parametric limits is based on an annual 10% (5% per semi-annual event) as recommend by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009).

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated

with upgradient well data during each event after careful screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. 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 Original Background Screenings – State and Federal

Georgia EPD Appendix I & II Constituents – Conducted in August 2019

Outlier Screening

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, one outlier was identified. Although there were no cases of this present in the datasets, 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.

Tukey's test method did not identify outliers for the highest measurements of zinc in wells GWA-2, GWC-3R and GWC-4R; however, these values were flagged in the database so that resulting statistical limits will be lower and more conservative, i.e., sensitive to changes in concentration. A list of all flagged outliers is presented in the Outlier Summary (Appendix C).

Additionally, 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 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.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Testing

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, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

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 from 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.

Statistically significant decreasing trends were noted for a few constituents, and one statistically significant increasing trend was identified for barium in well GWC-6R. The data sets were still relatively small, and the magnitudes of these trends were low relative to the average concentrations. Therefore, no adjustments were required to any of the records except for barium in wells GWC-4R and GWC-5R. Earlier measurements for barium in these wells were considerably higher than currently reported measurements. In order to construct prediction limits that are lower and more conservative from a regulatory perspective, only the more recent portion of these records were used for the statistical limits. All background data are re-evaluated during subsequent background updates.

CCR Appendix III Constituents – Conducted in April 2019

Outlier Screening

Using the Tukey box plot method, one outlier was identified. The outlier identified by Tukey's method was not flagged in the database as it was similar to remaining

measurements within the same well and neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made.

Trend Testing

The results of the trend analyses were included in the previous screening and showed a few statistically significant decreasing trends. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short in 2019; therefore, no adjustments were made to the data sets. However, when decreasing trends persist over a longer period for intrawell parameters in downgradient wells or interwell parameters in upgradient wells, some records may need to be truncated in order to maintain conservative limits.

Current Background Updates – State and Federal

Georgia EPD Appendix I & II and CCR Appendix III – March 2022

Outlier Analysis

Prior to updating background data, visual screening and Tukey's outlier test was used to evaluate data for suspected outliers in upgradient and downgradient wells through August 2021 for constituents tested using intrawell prediction limits and in pooled upgradient well data for constituents tested using interwell prediction and tolerance limits (Figure C).

All of the more recent compliance measurements appeared stable with no spurious measurements compared to the previously screened historical data sets; therefore, no new outliers were flagged except for the most recent high reported measurements of cobalt in upgradient well GWA-2. These values were flagged in order to maintain conservative (i.e., lower) statistical limits. A summary of all flagged outliers follows this letter.

Mann-Whitney Comparison of Medians

For constituents tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through October 2018 for state constituents and through February 2019 for federal constituents to new compliance samples at each well through August 2021 (Figures D and E, respectively). When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data.

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, background data sets are not updated unless further research provides reasonable justification that the changes in concentrations reflect a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

In this analysis, all records with statistically significant Mann-Whitney results for upgradient and downgradient wells were updated. Similar shifts were noted in downgradient water quality conditions compared to those observed upgradient of the facility, such as in the case of the statistically significant increasing medians identified for zinc in upgradient well GWA-2R and downgradient well GWC-5R. Previously truncated records for barium at downgradient wells GWC-4R and GWC-5R were also updated with more recent data through 8/18/2021.

The statistically significant decreases identified in medians were either due to more recent reported trace values compared to previously reported nondetects, or variation in the records with lower compliance medians. The medians for well/constituent pairs with variation were less than historical medians but similar to historical concentrations. Additionally, since statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, generally, more conservative (i.e., lower) statistical limits, these cases were updated with more recent data.

In the case of pH at wells GWC-2R and GWC-5R, while more recent reported measurements were slightly lower than those reported historically, the measurements are similar to those reported in upgradient wells across all units (as may be seen on the time series graphs). Therefore, these records were also updated. Summaries of the Mann-Whitney test results for the state and federal parameters follows this letter.

Trend Tests

For constituents requiring interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), the Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data through February 2022 at all upgradient wells (Figure F). While the trend test evaluates data at an individual well, time series plots may be used to observe concentrations across all upgradient wells. The time series plots follow the trend tests.

Several statistically significant increasing and decreasing trends were noted. However, since these are upgradient wells, the trends are likely the result of natural variation, and the patterns observed in these wells could reappear later in downgradient wells. Therefore, none of the records were adjusted.

Statistical Analysis of February 2022 Samples

Georgia EPD Appendix I & II Constituents – February 2022

Intrawell Prediction Limits

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data through August 2021, except for the cases mentioned above and listed in the background date range table (Figure G). Additionally, no statistical analyses were included for well/constituent pairs with 100% non-detects. Compliance data from the

February 2022 sample event are compared to these intrawell background limits. A statistical exceedance was identified in the following well:

- Selenium: GWC-1R

Note that when the prediction limit for selenium at downgradient well GWC-1R is rounded to the same number of significant figures as the February 2022 observation, the limit and observation are equal.

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 the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary.

Note that the reported February 2022 observation of 0.02 mg/L for selenium at well GWC-1R is below their respective Maximum Contaminant Level (MCL) of 0.05 mg/L.

Trend Test Evaluation – Appendix I & II

When prediction limit exceedances occur in any of the 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. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary and graphical presentation of the trend test results follows this letter (Figure J). No statistically significant increasing or decreasing trend was noted for selenium at well GWC-1R. A statistically significant increasing trend was identified in upgradient well YGWA-17S.

CCR Appendix III Constituents – February 2022

Intrawell Prediction Limits

For fluoride and pH, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through August 2021 (Figure H). The February 2022 sample from each downgradient well is compared to the background limit to

determine whether there are exceedances over background. No exceedances were identified.

Interwell Prediction Limits

For Appendix III parameters that are analyzed using interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), background (upgradient) well data from all the Yates units were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data from all of the Yates units through February 2022 (Figure I). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent.

The February 2022 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-2R and GWC-4R
- Calcium: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R
- Chloride: GWC-2R and GWC-4R
- Sulfate: GWC-1R, GWC-2R, GWC-5R, and GWC-6R
- TDS: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R

Trend Test Evaluation – Appendix III

Data from downgradient well/constituent pairs found to exceed their respective intrawell and interwell prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test. Trend tests were also performed for upgradient wells across all Yates units (Figure J). Statistically significant trends were identified among the following downgradient well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing

- None:

Trends – Interwell Prediction Limit Exceedances

Increasing

- Calcium: GWA-2, YGWA-1D, YGWA-21I, YGWA-17S (all upgradient) and GWC-2R
- Chloride: YGWA-17S, YGWA-20S (both upgradient) and GWC-2R
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, YGWA-5I (all upgradient)
- TDS: GWA-2 (upgradient) and GWC-2R

Decreasing

- Boron: YGWA-40
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-5I, YGWA-18I, YGWA-39, YGWA-40, and GWA-47 (all upgradient)
- TDS: YGWA-5D, YGWA-40, and YGWA-47

When trends are noted upgradient of the facility, it is an indication that groundwater concentrations are naturally changing over time.

Statistical Analysis of CCR Appendix IV Parameters – February 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.072 mg/L for cobalt at upgradient well GWA-2 from the February 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The more recent reported measurements since August 2020 were previously flagged as these measurements were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data from all the Yates units for Appendix IV constituents (Figure K). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). 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). On February 22, 2022, Georgia EPD incorporated the CCR-rule specified limits for these constituents (391-3-4-.10(6)(a)) which are utilized in this analysis. Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for the February 2022 sample event (Figure L).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well using all historical data since 2016 (Figure M). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs with 100% non-detects since 2016. 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 Georgia EPD

Rules 391-3-4-.10(6)(a). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals and complete graphical results follow this letter. No exceedances were identified for the confidence intervals.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates CCR Landfill Gypsum Stack. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina Rayner
Senior Statistician

Andrew Collins
Project Manager

Date Ranges

Date: 3/16/2022 4:38 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/18/2021

GWC-5R background:8/14/2013-8/18/2021

100% Nondetects - Downgradient Wells

Date: 4/27/2022 1:22 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)

GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)

GWC-6R

Cadmium (mg/L)

GWC-6R

Lead (mg/L)

GWC-6R

Molybdenum (mg/L)

GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Silver (mg/L)

GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Thallium (mg/L)

GWC-1R, GWC-3R, GWC-4R, GWC-6R

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/17/2022, 12:51 PM

	GWA-2 Cobalt (mg/L)	GWA-2 Zinc (mg/L)	GWC-3R Zinc (mg/L)	GWC-4R Zinc (mg/L)
3/11/2011				0.025 (o)
2/5/2014		0.018 (o)	0.026 (o)	
8/26/2020	0.2 (o)			
9/22/2020	0.16 (o)			
3/2/2021	0.21 (o)			
8/20/2021	0.074 (o)			
2/8/2022	0.072 (o)			

Mann-Whitney Summary Appendix I & II - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Arsenic (mg/L)	**GWC-3R**	**-3.454**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	**GWC-5R**	**-3.275**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-2R**	**-3.545**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-3R**	**-2.782**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-5R**	**-3.946**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	**GWC-2R**	**-4.492**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	**GWC-4R**	**-2.9**	**Yes**	**Yes**	**Mann-W**
Cadmium (mg/L)	**GWC-3R**	**-4.126**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-1R**	**-2.771**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-2R**	**-2.642**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-5R**	**-3.453**	**Yes**	**Yes**	**Mann-W**
Copper (mg/L)	**GWA-2 (bg)**	**-2.645**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	**GWC-2R**	**-2.984**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	**GWC-5R**	**-3.851**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	**GWC-4R**	**-3.008**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	**GWC-6R**	**-4.154**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	**GWC-4R**	**-4.121**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	**GWC-6R**	**-3.089**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	**GWA-2 (bg)**	**3.632**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	**GWC-5R**	**3.757**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Antimony (mg/L)	GWA-2 (bg)	-1.829	No	No	Mann-W
Antimony (mg/L)	GWC-2R	-1.668	No	No	Mann-W
Antimony (mg/L)	GWC-4R	-1.657	No	No	Mann-W
Antimony (mg/L)	GWC-5R	-2.095	No	No	Mann-W
Arsenic (mg/L)	GWA-2 (bg)	-2.53	No	No	Mann-W
Arsenic (mg/L)	GWC-1R	-1.802	No	No	Mann-W
Arsenic (mg/L)	GWC-2R	-2.347	No	No	Mann-W
Arsenic (mg/L)	**GWC-3R**	**-3.454**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	GWC-4R	-2.347	No	No	Mann-W
Arsenic (mg/L)	**GWC-5R**	**-3.275**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	GWC-6R	-2.473	No	No	Mann-W
Barium (mg/L)	GWA-2 (bg)	-0.3657	No	No	Mann-W
Barium (mg/L)	GWC-1R	0.9517	No	No	Mann-W
Barium (mg/L)	**GWC-2R**	**-3.545**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-3R**	**-2.782**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	GWC-4R	-0.788	No	No	Mann-W
Barium (mg/L)	**GWC-5R**	**-3.946**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	GWC-6R	0.182	No	No	Mann-W
Beryllium (mg/L)	GWC-1R	-1.884	No	No	Mann-W
Beryllium (mg/L)	**GWC-2R**	**-4.492**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	GWC-3R	-0.7009	No	No	Mann-W
Beryllium (mg/L)	**GWC-4R**	**-2.9**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	GWC-5R	1.635	No	No	Mann-W
Cadmium (mg/L)	GWC-1R	-2.277	No	No	Mann-W
Cadmium (mg/L)	GWC-2R	-2.064	No	No	Mann-W
Cadmium (mg/L)	**GWC-3R**	**-4.126**	**Yes**	**Yes**	**Mann-W**
Cadmium (mg/L)	GWC-4R	0.556	No	No	Mann-W
Cadmium (mg/L)	GWC-5R	1.799	No	No	Mann-W
Chromium (mg/L)	GWA-2 (bg)	0.8784	No	No	Mann-W
Chromium (mg/L)	GWC-1R	-1.7	No	No	Mann-W
Chromium (mg/L)	GWC-2R	-1.923	No	No	Mann-W
Chromium (mg/L)	GWC-3R	-1.697	No	No	Mann-W
Chromium (mg/L)	GWC-4R	-1.015	No	No	Mann-W
Chromium (mg/L)	GWC-5R	-0.9321	No	No	Mann-W
Chromium (mg/L)	GWC-6R	-1.983	No	No	Mann-W
Cobalt (mg/L)	GWA-2 (bg)	-2.121	No	No	Mann-W
Cobalt (mg/L)	**GWC-1R**	**-2.771**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-2R**	**-2.642**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	GWC-3R	0.5674	No	No	Mann-W
Cobalt (mg/L)	GWC-4R	-2.352	No	No	Mann-W
Cobalt (mg/L)	**GWC-5R**	**-3.453**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	GWC-6R	0.5443	No	No	Mann-W
Copper (mg/L)	**GWA-2 (bg)**	**-2.645**	**Yes**	**Yes**	**Mann-W**
Copper (mg/L)	GWC-1R	-2.04	No	No	Mann-W
Copper (mg/L)	GWC-2R	-1.693	No	No	Mann-W
Copper (mg/L)	GWC-3R	-1.146	No	No	Mann-W
Copper (mg/L)	GWC-4R	-1.28	No	No	Mann-W
Copper (mg/L)	GWC-5R	-2.499	No	No	Mann-W
Copper (mg/L)	GWC-6R	-2.318	No	No	Mann-W
Lead (mg/L)	GWA-2 (bg)	-1.796	No	No	Mann-W
Lead (mg/L)	GWC-1R	-2.095	No	No	Mann-W
Lead (mg/L)	**GWC-2R**	**-2.984**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	GWC-3R	-2.503	No	No	Mann-W
Lead (mg/L)	GWC-4R	-1.668	No	No	Mann-W
Lead (mg/L)	**GWC-5R**	**-3.851**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Mercury (mg/L)	GWA-2 (bg)	-0.8281	No	No	Mann-W
Mercury (mg/L)	GWC-1R	-1.493	No	No	Mann-W
Mercury (mg/L)	GWC-2R	-1.668	No	No	Mann-W
Mercury (mg/L)	GWC-3R	0.3769	No	No	Mann-W
Mercury (mg/L)	GWC-4R	-0.7989	No	No	Mann-W
Mercury (mg/L)	GWC-5R	-1.493	No	No	Mann-W
Mercury (mg/L)	GWC-6R	-0.7329	No	No	Mann-W
Nickel (mg/L)	GWA-2 (bg)	0.561	No	No	Mann-W
Nickel (mg/L)	GWC-1R	-1.808	No	No	Mann-W
Nickel (mg/L)	GWC-2R	-1.55	No	No	Mann-W
Nickel (mg/L)	GWC-3R	-0.1041	No	No	Mann-W
Nickel (mg/L)	**GWC-4R**	**-3.008**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	GWC-5R	-2.237	No	No	Mann-W
Nickel (mg/L)	**GWC-6R**	**-4.154**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	GWC-1R	0.2455	No	No	Mann-W
Selenium (mg/L)	GWC-2R	-1.926	No	No	Mann-W
Selenium (mg/L)	GWC-3R	-0.6924	No	No	Mann-W
Selenium (mg/L)	**GWC-4R**	**-4.121**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	GWC-5R	2.212	No	No	Mann-W
Selenium (mg/L)	**GWC-6R**	**-3.089**	**Yes**	**Yes**	**Mann-W**
Silver (mg/L)	GWC-5R	-1.468	No	No	Mann-W
Thallium (mg/L)	GWA-2 (bg)	-0.1025	No	No	Mann-W
Thallium (mg/L)	GWC-2R	0.5819	No	No	Mann-W
Thallium (mg/L)	GWC-5R	-1.455	No	No	Mann-W
Vanadium (mg/L)	GWA-2 (bg)	0.1106	No	No	Mann-W
Vanadium (mg/L)	GWC-1R	1.181	No	No	Mann-W
Vanadium (mg/L)	GWC-2R	-1.775	No	No	Mann-W
Vanadium (mg/L)	GWC-3R	-2.19	No	No	Mann-W
Vanadium (mg/L)	GWC-4R	-1.775	No	No	Mann-W
Vanadium (mg/L)	GWC-5R	1.181	No	No	Mann-W
Vanadium (mg/L)	GWC-6R	0.3695	No	No	Mann-W
Zinc (mg/L)	**GWA-2 (bg)**	**3.632**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	GWC-1R	1.72	No	No	Mann-W
Zinc (mg/L)	GWC-2R	0.7497	No	No	Mann-W
Zinc (mg/L)	GWC-3R	0.9721	No	No	Mann-W
Zinc (mg/L)	GWC-4R	1.272	No	No	Mann-W
Zinc (mg/L)	**GWC-5R**	**3.757**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	GWC-6R	1.852	No	No	Mann-W

Mann-Whitney Summary Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:21 PM

Constituent	Well	Calc.	0.01	Sig.	Method
pH (S.U.)	**GWC-2R**	**-3.002**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	**GWC-5R**	**-3.105**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:21 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Fluoride (mg/L)	GWA-2 (bg)	-1.692	No	No	Mann-W
Fluoride (mg/L)	GWC-1R	2.006	No	No	Mann-W
Fluoride (mg/L)	GWC-2R	2.149	No	No	Mann-W
Fluoride (mg/L)	GWC-3R	0.6481	No	No	Mann-W
Fluoride (mg/L)	GWC-4R	-0.06464	No	No	Mann-W
Fluoride (mg/L)	GWC-5R	0.2607	No	No	Mann-W
Fluoride (mg/L)	GWC-6R	0.9697	No	No	Mann-W
pH (S.U.)	GWA-2 (bg)	-1.404	No	No	Mann-W
pH (S.U.)	GWC-1R	-0.08848	No	No	Mann-W
pH (S.U.)	**GWC-2R**	**-3.002**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	GWC-3R	-0.6181	No	No	Mann-W
pH (S.U.)	GWC-4R	0	No	No	Mann-W
pH (S.U.)	**GWC-5R**	**-3.105**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	GWC-6R	-0.6648	No	No	Mann-W

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Upgradient Wells - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-6I (bg)	0.007562	8	21	No	8	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-6S (bg)	0.02113	12	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-6I (bg)	2.118	10	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-6S (bg)	4.38	20	21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Upgradient Wells - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-6I (bg)	1.183	18	21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-6S (bg)	0.9037	15	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-6I (bg)	1.355	5	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-6S (bg)	13.62	20	21	No	8	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-6I (bg)	7.244	2	21	No	8	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-6S (bg)	39.62	19	21	No	8	0	n/a	n/a	0.01	NP

Intrawell Prediction Limits Appendix I & II - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/8/2022**	**0.02**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Intrawell Prediction Limits Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 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)	GWA-2	0.003	n/a	2/8/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	2/9/2022	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	2/8/2022	0.0017J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	2/9/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	2/8/2022	0.0033J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	2/8/2022	0.0026J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	2/8/2022	0.0015J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	2/8/2022	0.0013J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.0034J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	2/8/2022	0.037	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	2/8/2022	0.066	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	2/9/2022	0.038	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	2/8/2022	0.013	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	2/8/2022	0.031	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	2/9/2022	0.011	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	2/8/2022	0.03	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	2/8/2022	0.00032J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	2/9/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	2/8/2022	0.001	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	2/8/2022	0.000085J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	2/9/2022	0.0036	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	2/8/2022	0.00019J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	2/9/2022	0.0005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	2/8/2022	0.00018J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	2/8/2022	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	2/9/2022	0.001	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	2/8/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.002J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	2/8/2022	0.0011J	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	2/8/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	2/9/2022	0.0022J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.0017J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	2/8/2022	0.0019J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	2/9/2022	0.00085J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	2/8/2022	0.0074	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	2/8/2022	0.0034J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.00064J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	2/8/2022	0.0012J	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	2/8/2022	0.00072J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	2/8/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	2/8/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.0014J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.0008J	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	2/8/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	2/8/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	2/9/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	2/8/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	2/8/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	2/9/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	2/8/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	2/8/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	2/9/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	2/8/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	2/8/2022	0.0002ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	2/9/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	2/8/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	2/8/2022	0.017	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	2/8/2022	0.0032J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	2/9/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	2/8/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.0017J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	2/9/2022	0.0014J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.001J	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/8/2022**	**0.02**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	2/9/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	2/8/2022	0.0091	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	2/8/2022	0.0044J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	2/9/2022	0.017	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	2/8/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	2/9/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	2/9/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	2/8/2022	0.01ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	2/9/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	2/9/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	2/8/2022	0.014	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	2/9/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	2/8/2022	0.0098J	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	2/9/2022	0.025	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Intrawell Prediction Limits Appendix III - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	2/8/2022	0.064J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	2/9/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	2/8/2022	0.16	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	2/9/2022	0.053J	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	2/8/2022	5.83	No	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	2/8/2022	5.16	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	2/9/2022	5.2	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	2/8/2022	5.1	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	2/8/2022	5.67	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	2/9/2022	4.82	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	2/8/2022	5.89	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2R	0.16	n/a	2/9/2022	0.23	Yes	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	2/8/2022	5.3	Yes	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	2/8/2022	166	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	2/9/2022	46.6	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	2/8/2022	66.5	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	2/9/2022	139	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	2/8/2022	61.5	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	10.9	n/a	2/9/2022	21.2	Yes	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	10.9	n/a	2/8/2022	162	Yes	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	2/8/2022	687	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	2/9/2022	241	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	2/9/2022	937	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	2/8/2022	260	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.4	n/a	2/8/2022	1310	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.4	n/a	2/9/2022	466	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-3R	218.4	n/a	2/8/2022	231	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.4	n/a	2/8/2022	648	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.4	n/a	2/9/2022	1440	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.4	n/a	2/8/2022	549	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2

Interwell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	2/8/2022	0.021J	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/9/2022**	**0.23**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2022**	**5.3**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	2/9/2022	0.043	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/8/2022**	**166**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/9/2022**	**46.6**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	2/8/2022	17.9	No	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2022**	**66.5**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/9/2022**	**139**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**2/8/2022**	**61.5**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	10.9	n/a	2/8/2022	5.6	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**10.9**	**n/a**	**2/9/2022**	**21.2**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	10.9	n/a	2/8/2022	4.5	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**10.9**	**n/a**	**2/8/2022**	**162**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	10.9	n/a	2/9/2022	2	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	10.9	n/a	2/8/2022	6.9	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-1R**	**160**	**n/a**	**2/8/2022**	**687**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/9/2022**	**241**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	2/8/2022	93.5	No	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	2/8/2022	146	No	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/9/2022**	**937**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**2/8/2022**	**260**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**218.4**	**n/a**	**2/8/2022**	**1310**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**218.4**	**n/a**	**2/9/2022**	**466**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-3R**	**218.4**	**n/a**	**2/8/2022**	**231**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-4R**	**218.4**	**n/a**	**2/8/2022**	**648**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**218.4**	**n/a**	**2/9/2022**	**1440**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**218.4**	**n/a**	**2/8/2022**	**549**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.541	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	2.487	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0.0004358	94	81	Yes	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	59.55	68	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.007065	39	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2505	26	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-2R**	**7.541**	**76**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.176	40	58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	5.948	48	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	0.4319	1	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GWC-2R**	**2.487**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	5.458	20	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	7	131	No	28	46.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	2	63	No	17	94.12	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.000656	-47	-63	No	17	35.29	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	17	38	No	12	83.33	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	3	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	25.57	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	27.28	58	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-6.748	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-24.66	-16	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-1R	71.39	18	58	No	16	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	**GWC-2R**	**59.55**	**68**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-3R	10.09	38	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	25.27	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-8.549	-2	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-6.909	-4	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/18/2022, 11:22 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
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		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

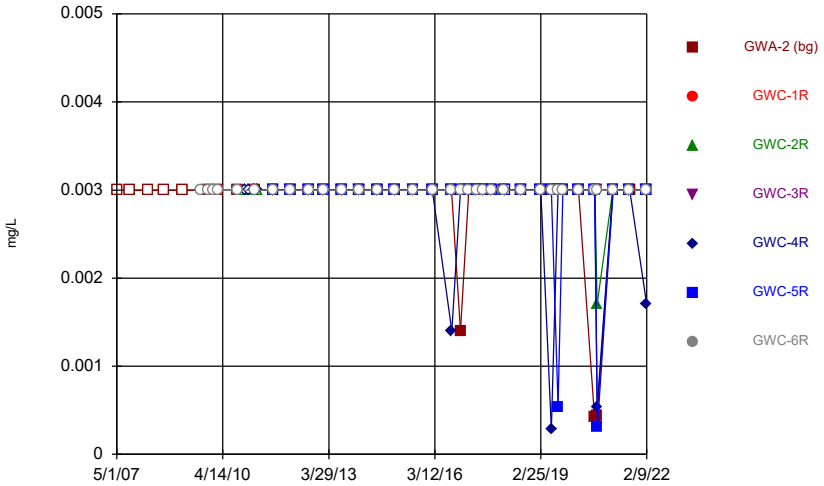
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	19	0.002932	0.0002982	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	19	0.002574	0.0008915	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	19	0.002729	0.0008128	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	19	0.003649	0.001879	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	19	0.004571	0.001286	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	19	0.003937	0.001649	68.42	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	19	0.004329	0.001599	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0034	0.00092	0.01	No	19	0.002198	0.001626	21.05	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	19	0.003099	0.002088	52.63	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	19	0.05229	0.01826	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.05203	0.04338	2	No	19	0.04771	0.007385	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03093	0.0193	2	No	19	0.02512	0.009926	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	19	0.02464	0.008719	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	19	0.02035	0.01023	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.0681	0.04594	2	No	19	0.05702	0.01892	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	19	0.001054	0.00136	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	19	0.001512	0.001451	47.37	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007489	0.0003409	0.004	No	19	0.0006537	0.0006324	5.263	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	19	0.002385	0.001224	78.95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No	19	0.001723	0.001244	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	19	0.0003868	0.0001724	68.42	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	19	0.0003858	0.0001734	68.42	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	19	0.0003421	0.0001626	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	19	0.0004789	0.00009177	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009572	0.0005997	0.005	No	19	0.0007784	0.0003053	5.263	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.002	0.001	0.1	No	19	0.001968	0.001629	21.05	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	19	0.004072	0.001848	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.001	0.1	No	19	0.001958	0.001631	21.05	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	19	0.003904	0.001891	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0024	0.0019	0.1	No	19	0.002305	0.000713	5.263	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	19	0.001952	0.001373	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	19	0.002065	0.001907	26.32	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02031	0.009546	0.035	No	19	0.01493	0.009193	5.263	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	19	0.005779	0.002516	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.002496	0.0008122	0.035	No	19	0.002387	0.002132	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	19	0.003561	0.002178	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.01	0.5585	6.92	No	15	0.7843	0.3332	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.408	0.6141	6.92	No	15	1.011	0.5856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.013	0.2541	6.92	No	15	0.6985	0.6837	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5943	0.2135	6.92	No	15	0.4039	0.2809	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8515	0.2519	6.92	No	15	0.5974	0.435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.062	0.4275	6.92	No	15	0.7816	0.5574	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	18	0.08944	0.02071	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	18	0.1156	0.1182	72.22	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.16	0.07	4	No	18	0.1302	0.1216	38.89	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	18	0.09889	0.01967	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.053	4	No	18	0.1101	0.09489	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	18	0.1011	0.04981	77.78	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0012	0.04	No	16	0.00689	0.01147	18.75	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.04	No	16	0.008962	0.01045	18.75	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.001	0.04	No	16	0.02275	0.01297	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.04	No	16	0.02097	0.01384	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.04	No	16	0.01576	0.01471	50	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.04	No	16	0.009644	0.01226	25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	19	0.0001926	0.00003235	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	19	0.0001932	0.00002959	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	19	0.0001951	0.00007665	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	19	0.0001925	0.00003258	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	19	0.0001831	0.00005156	89.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	19	0.006274	0.005851	21.05	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2R	0.00365	0.002455	0.05	No	19	0.003053	0.001021	10.53	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.00692	0.002946	0.05	No	19	0.005579	0.004227	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	GWC-4R	0.0047	0.0029	0.05	No	19	0.004684	0.002752	5.263	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.02585	0.01822	0.05	No	19	0.02204	0.00652	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.003618	0.002236	0.05	No	19	0.003011	0.00113	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	19	0.0009511	0.0002134	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	19	0.0009502	0.0002173	94.74	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/28/2022 8:10 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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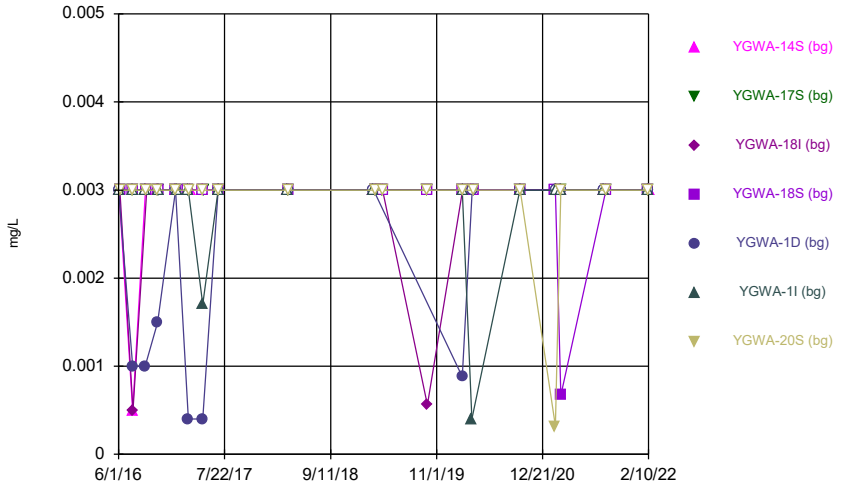

Constituent: Antimony Analysis Run 4/28/2022 8:10 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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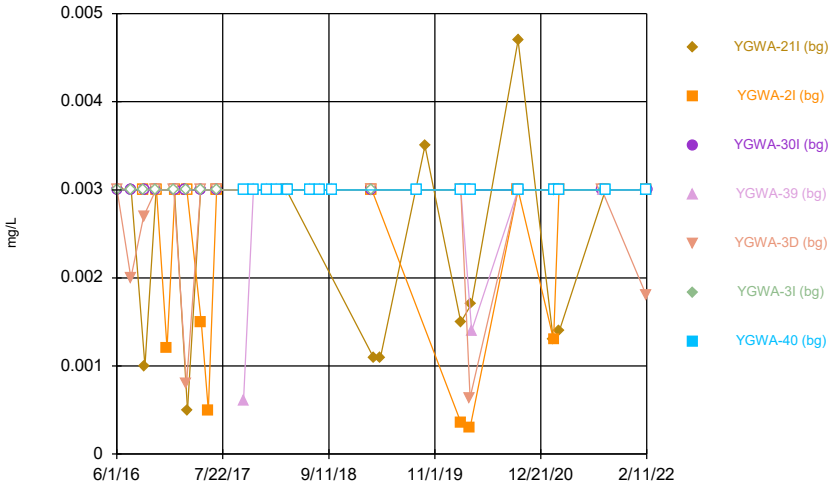

Constituent: Antimony Analysis Run 4/28/2022 8:10 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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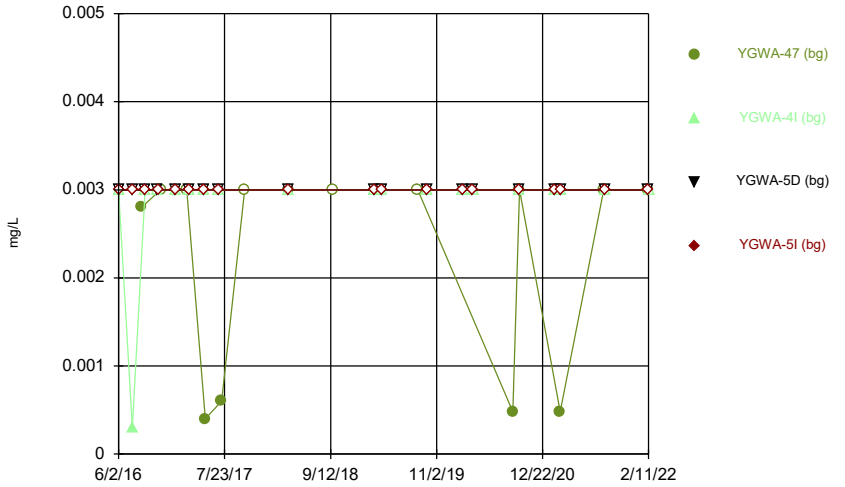

Constituent: Antimony Analysis Run 4/28/2022 8:10 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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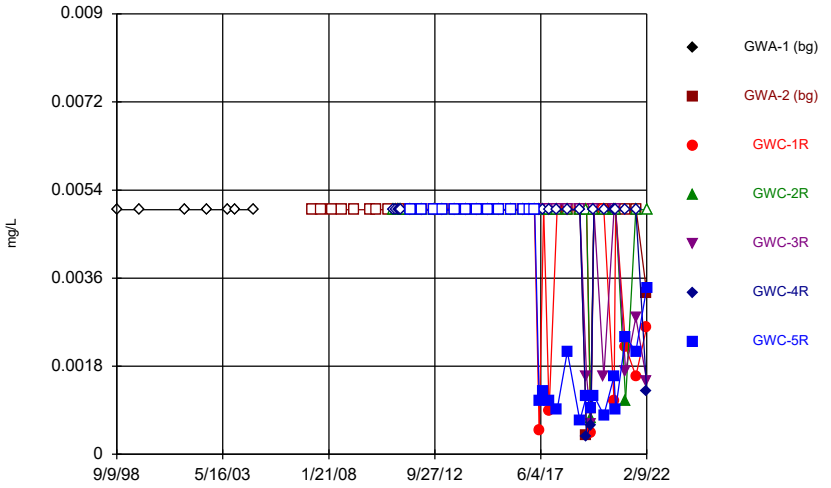
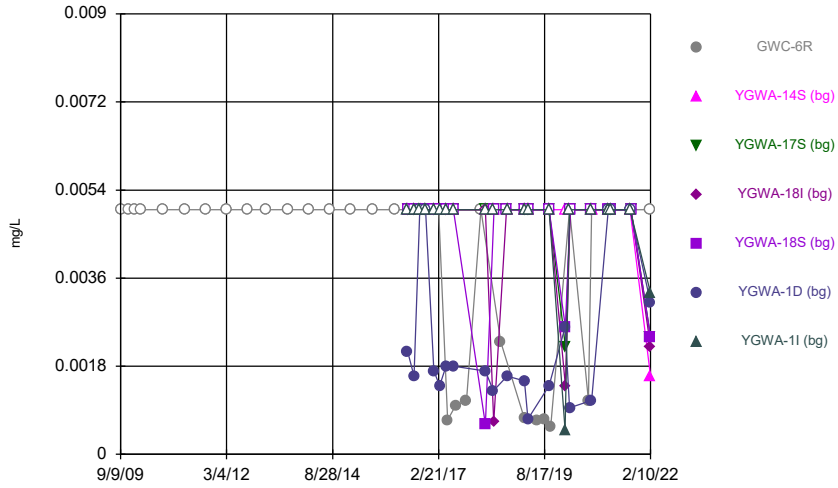


Constituent: Arsenic Analysis Run 4/28/2022 8:10 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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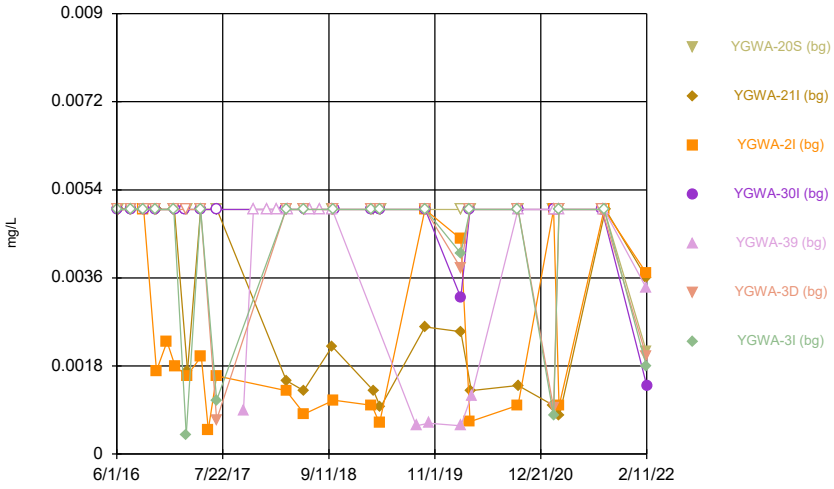
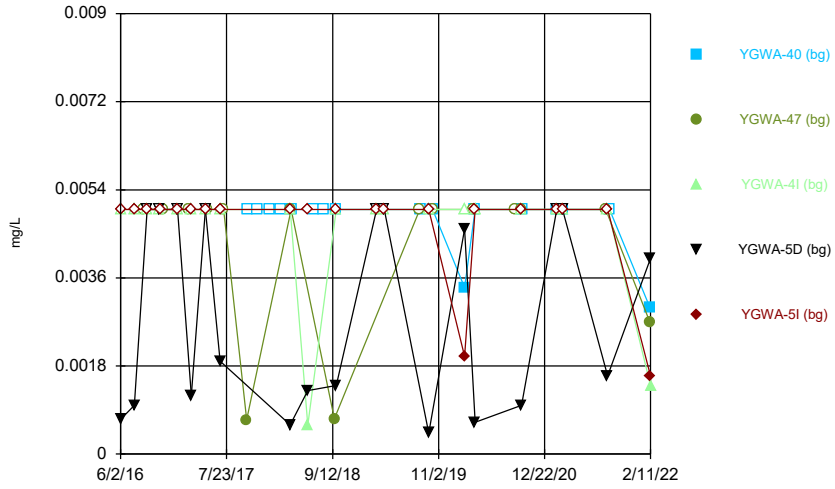
Time Series



Constituent: Arsenic Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

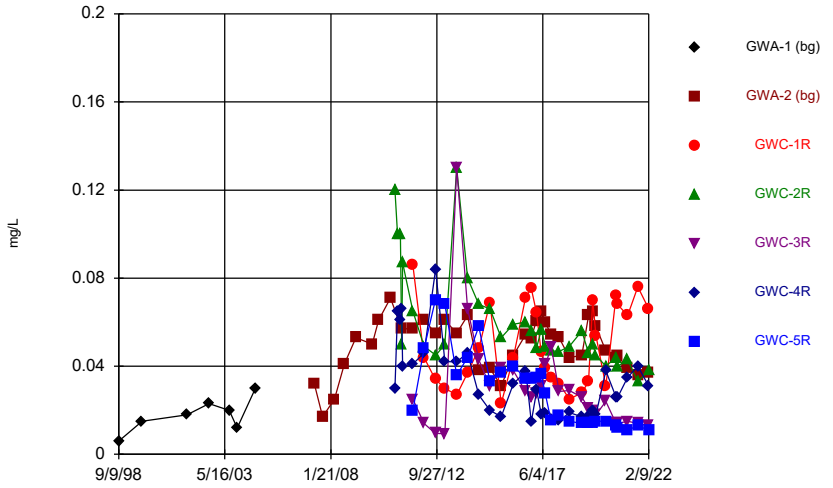
Time Series



Constituent: Arsenic Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Barium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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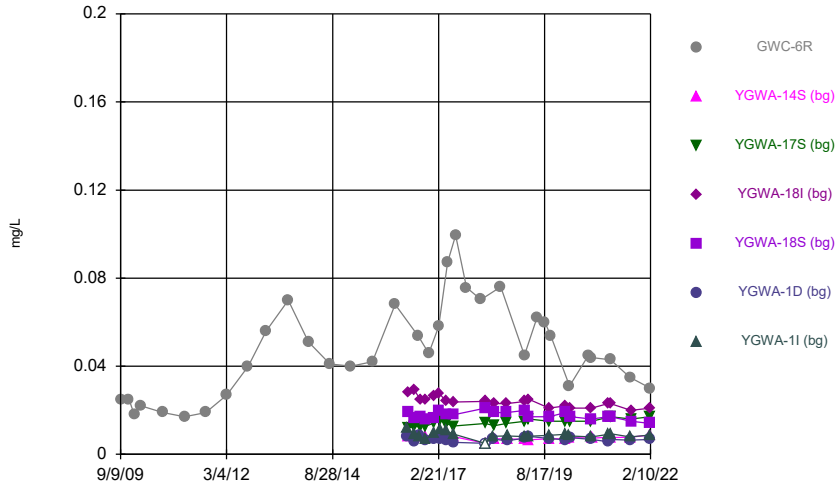
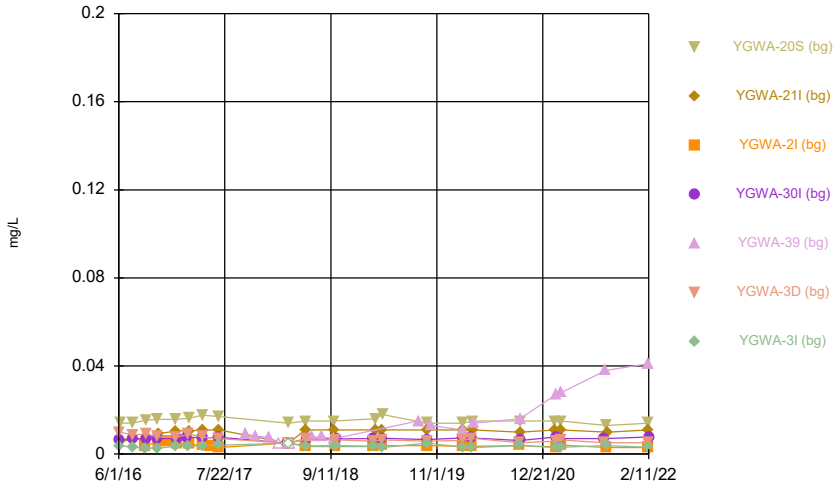


Constituent: Barium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

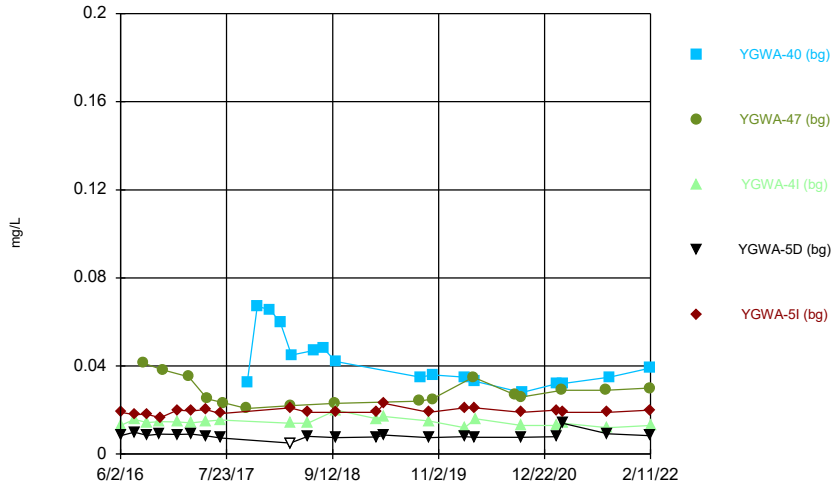
Time Series



Constituent: Barium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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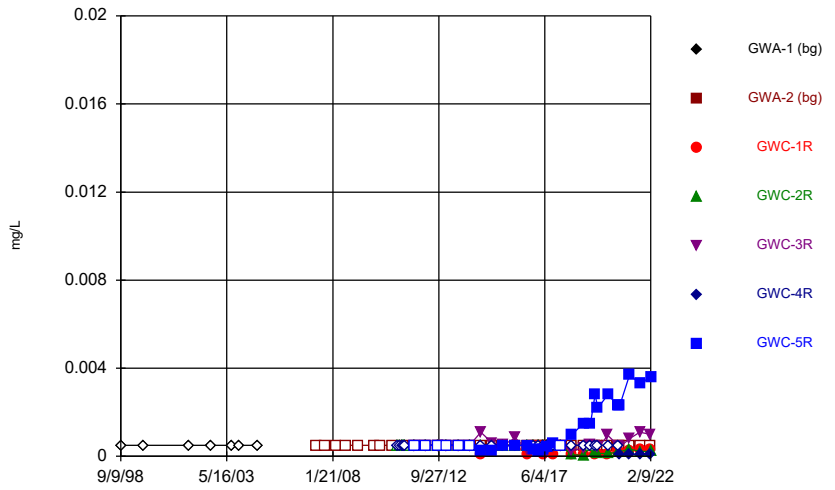

Constituent: Beryllium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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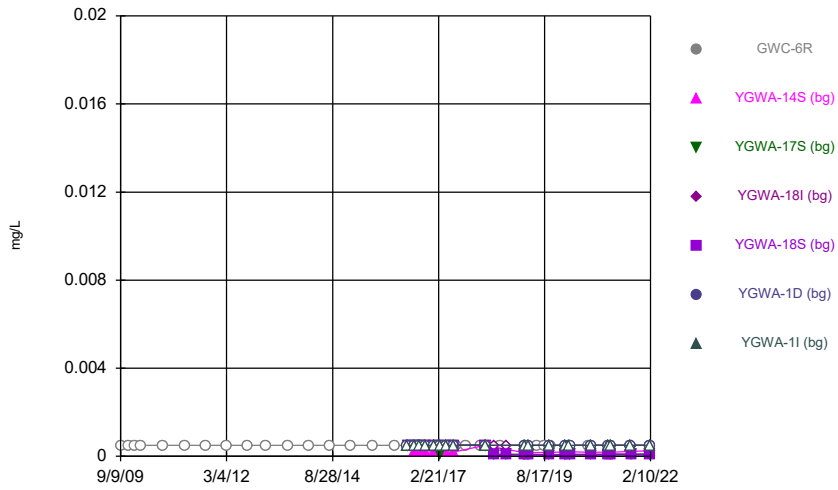

Constituent: Beryllium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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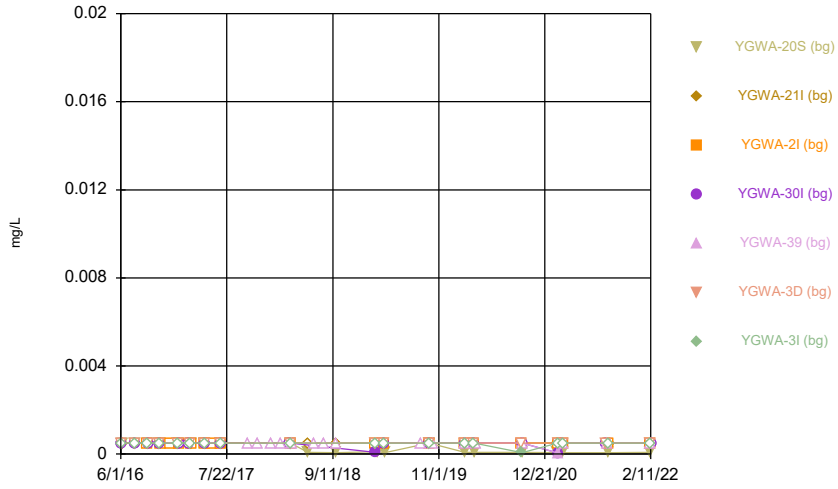
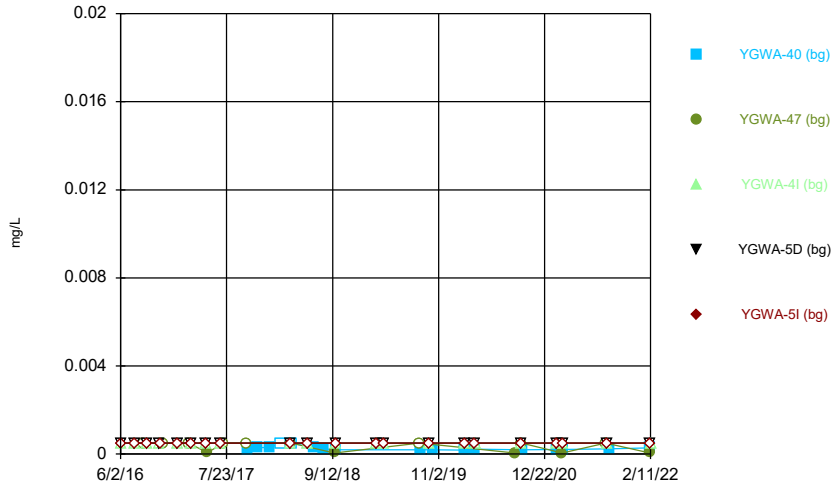
Time Series



Constituent: Beryllium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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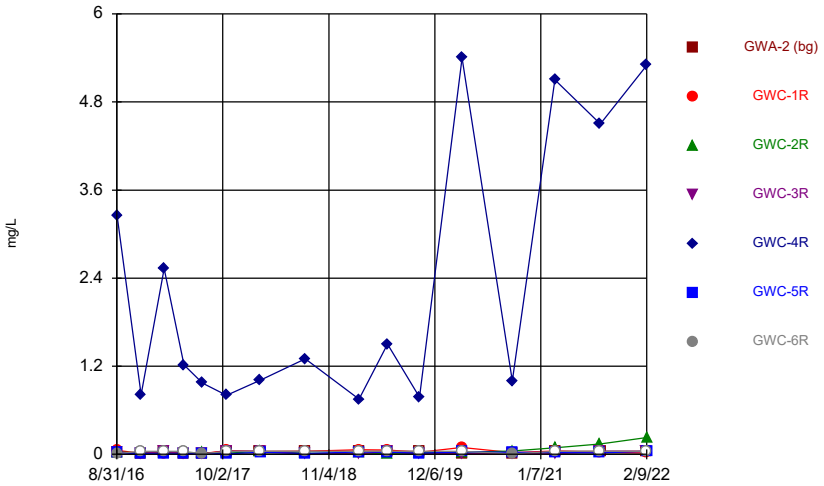

Constituent: Boron Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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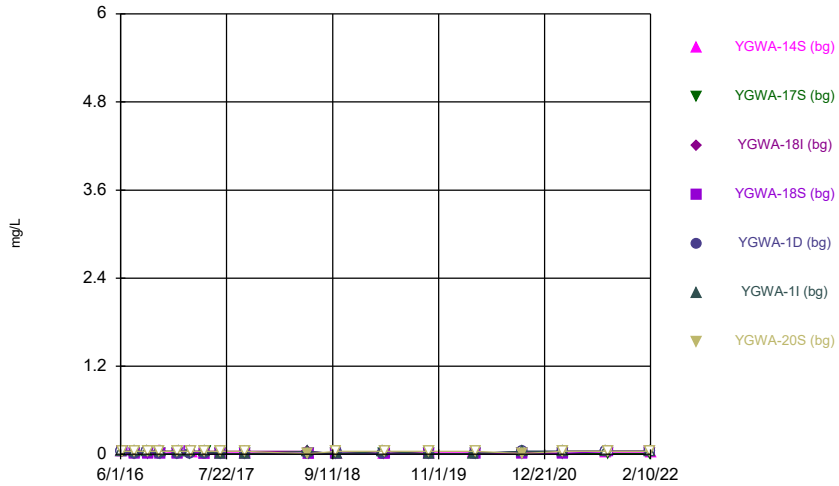

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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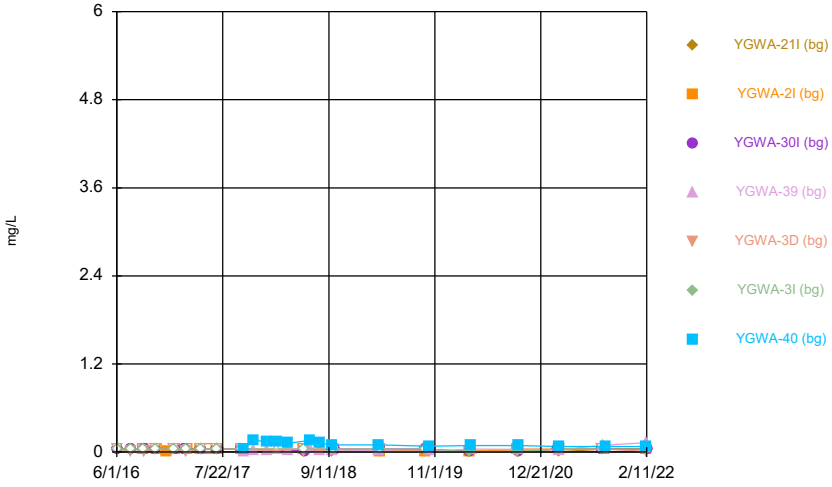

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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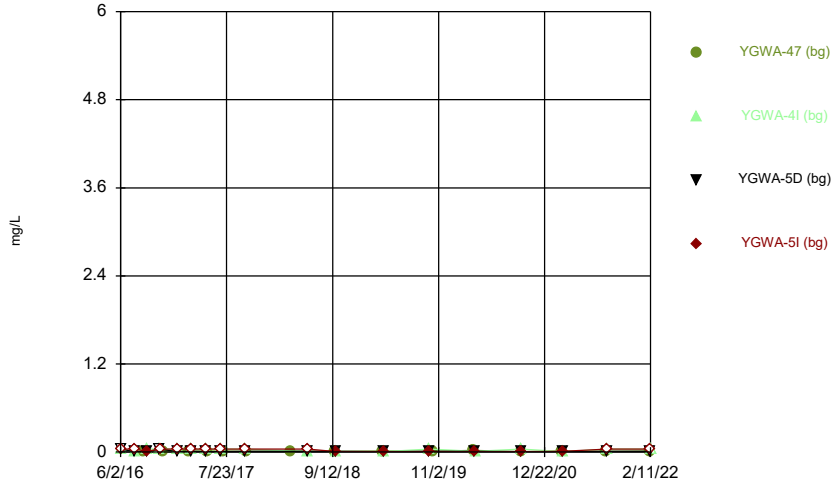

Constituent: Boron Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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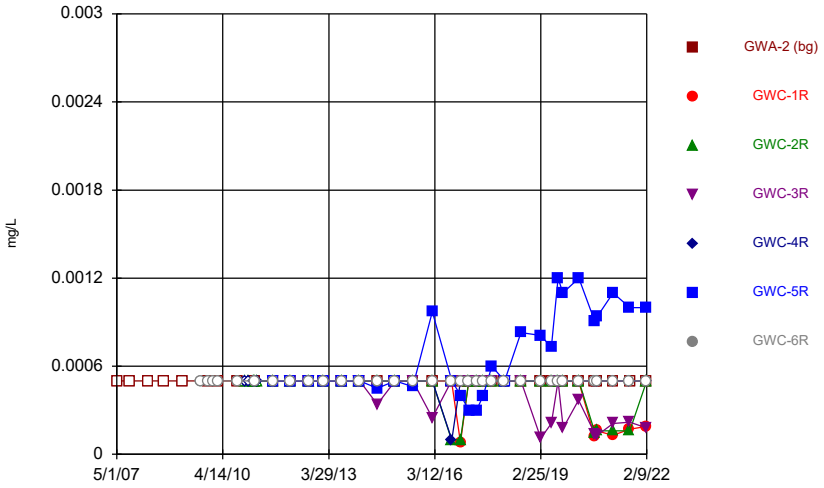
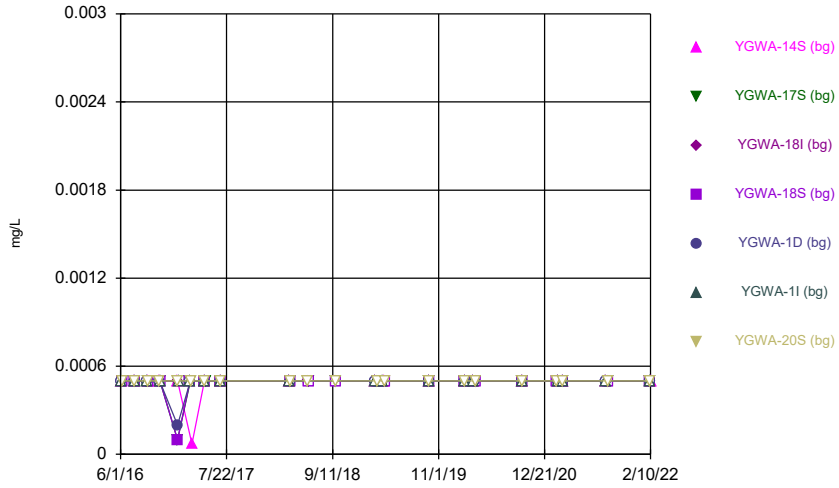


Constituent: Cadmium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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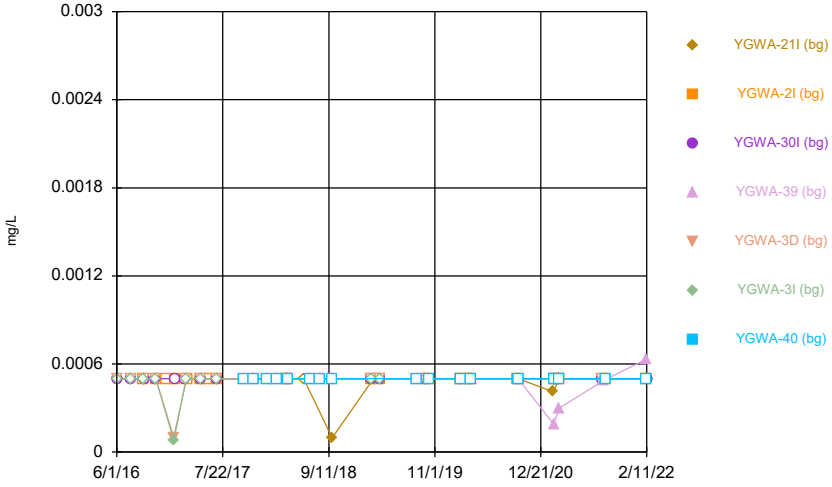
Time Series



Constituent: Cadmium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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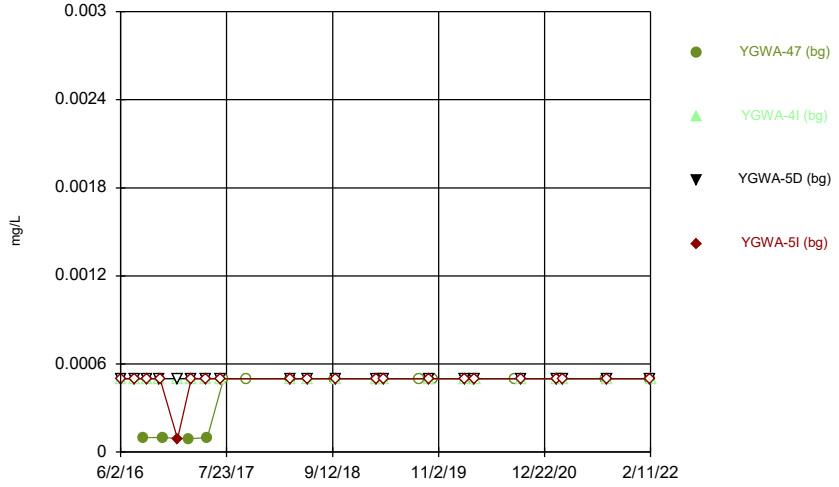

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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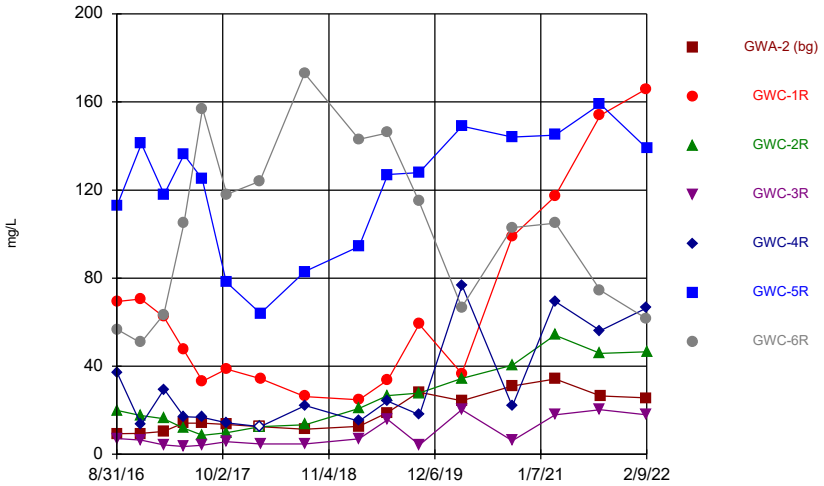
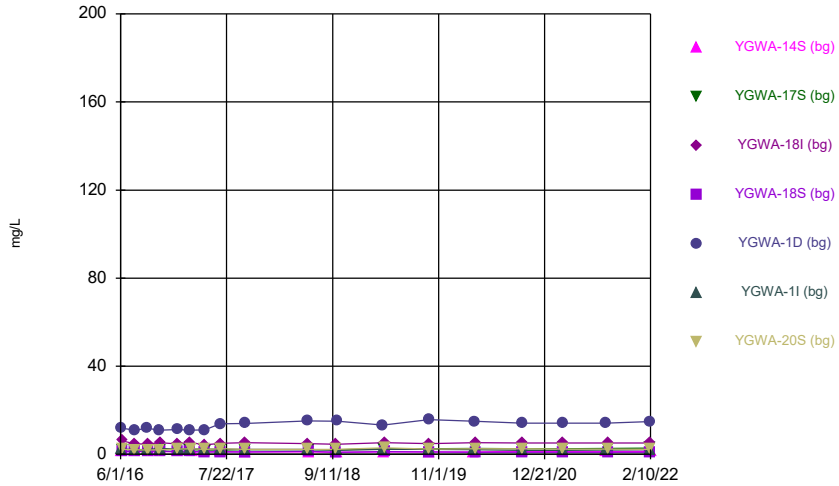


Constituent: Calcium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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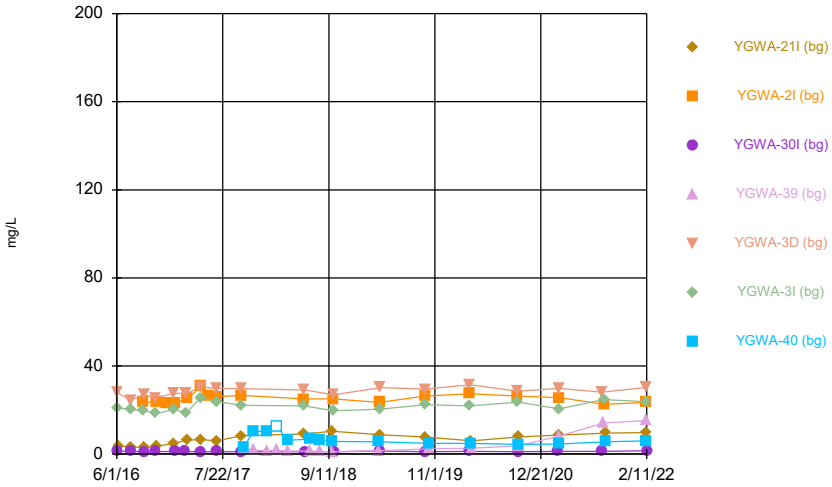
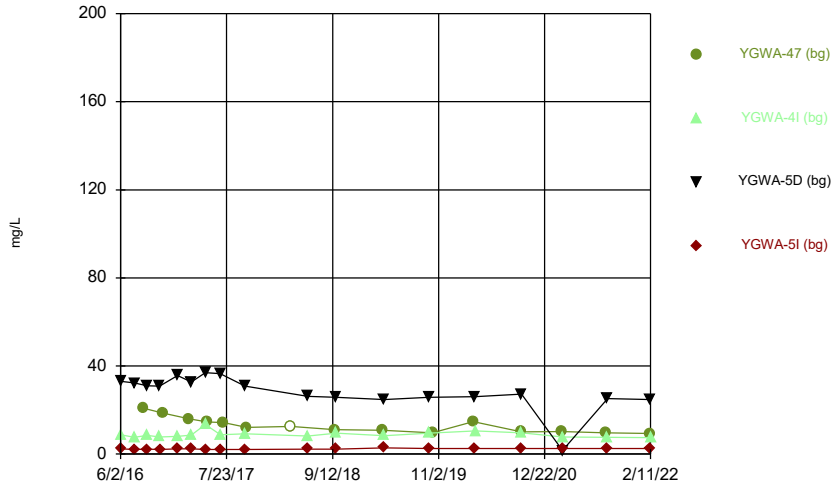
Time Series



Constituent: Calcium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

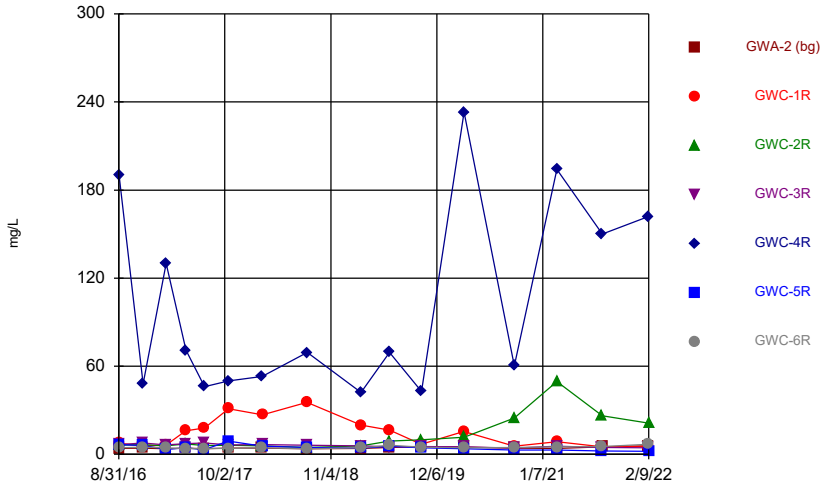
Time Series



Constituent: Calcium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

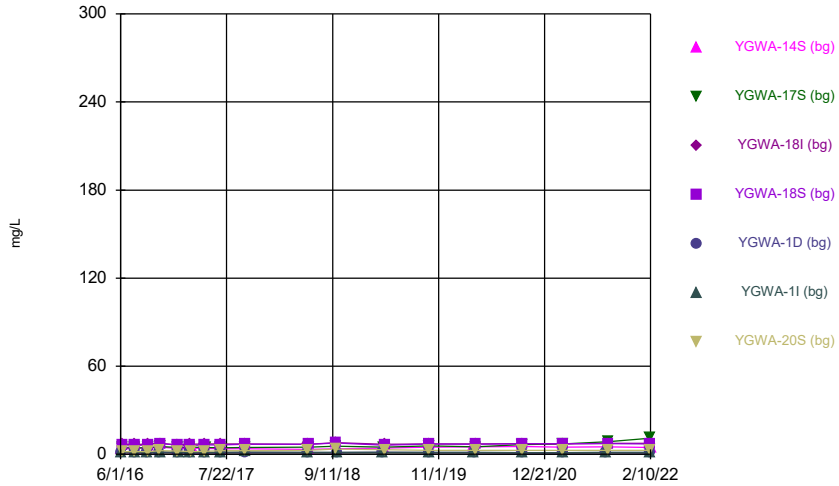
Time Series



Constituent: Chloride Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

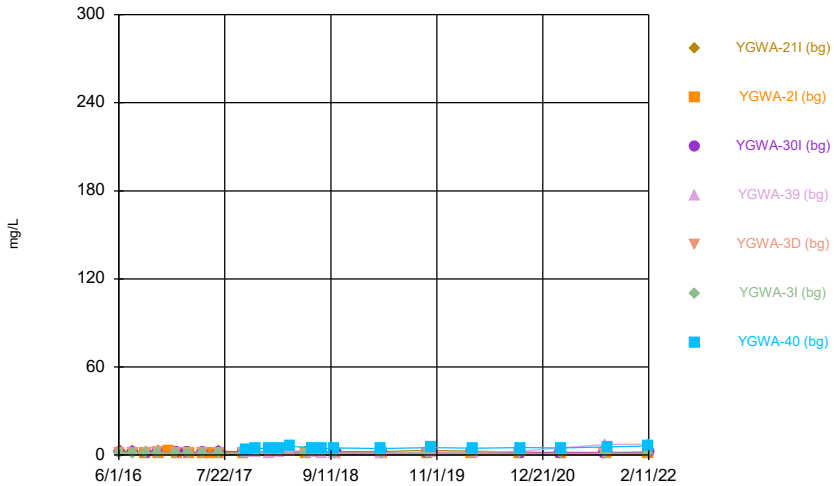
Time Series



Constituent: Chloride Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

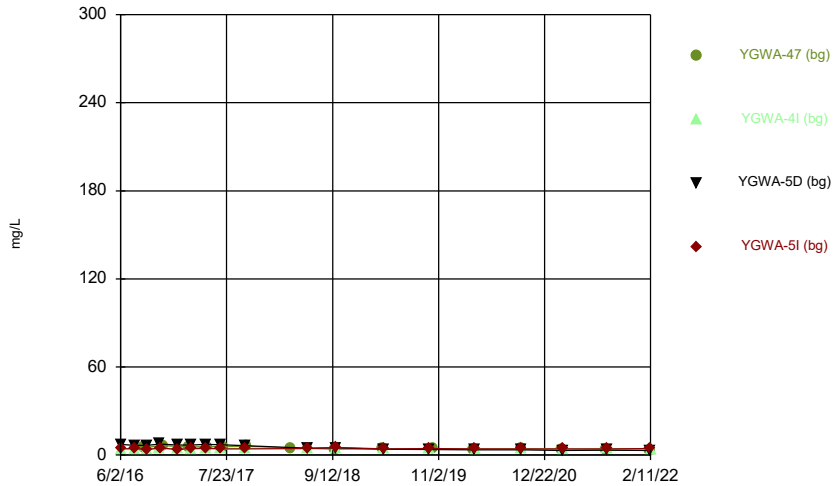
Time Series



Constituent: Chloride Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Chloride Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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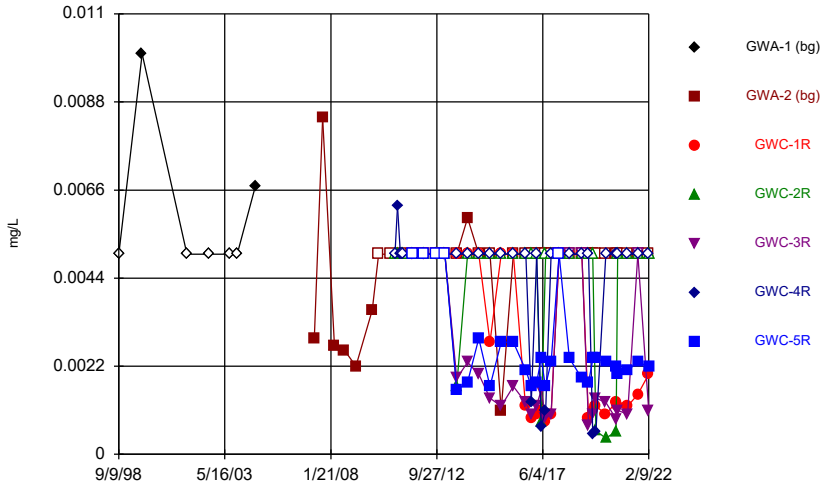
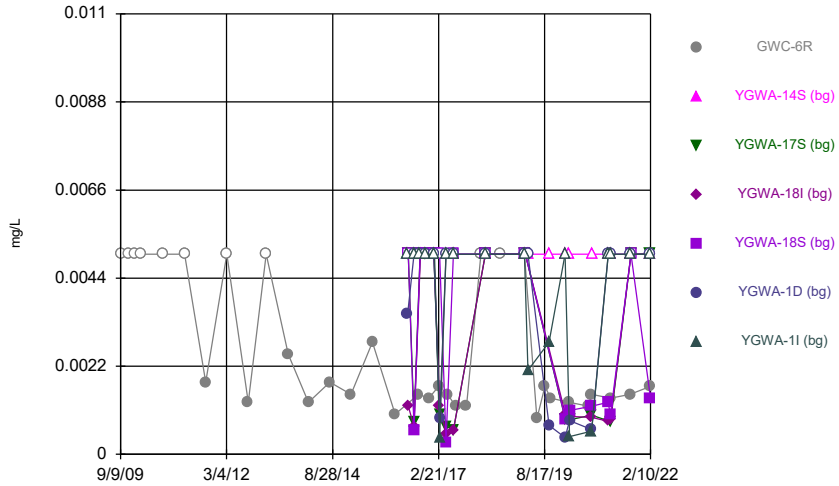
Time Series



Constituent: Chromium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

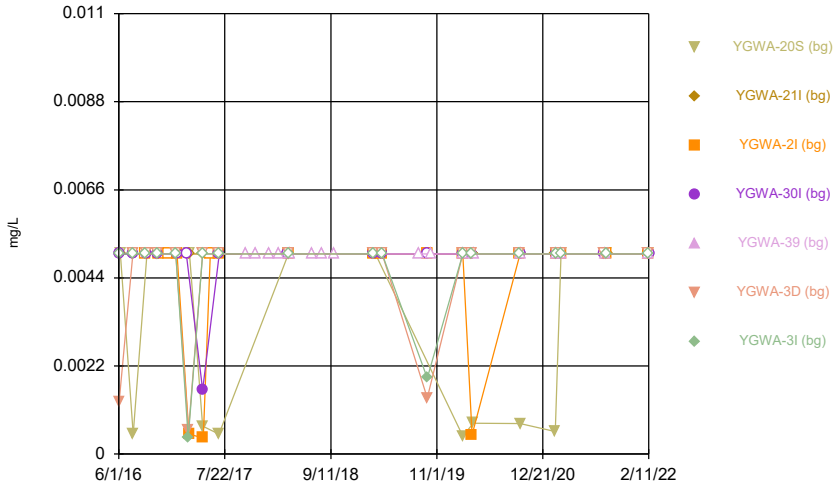
Time Series



Constituent: Chromium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

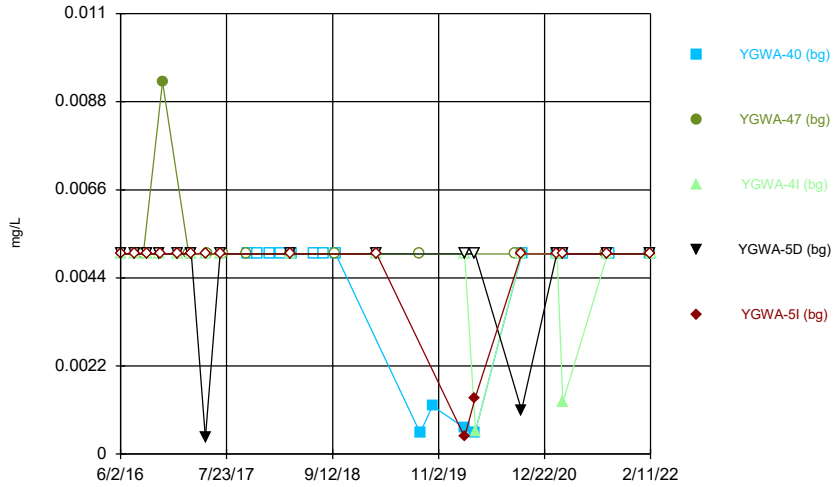
Time Series



Constituent: Chromium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

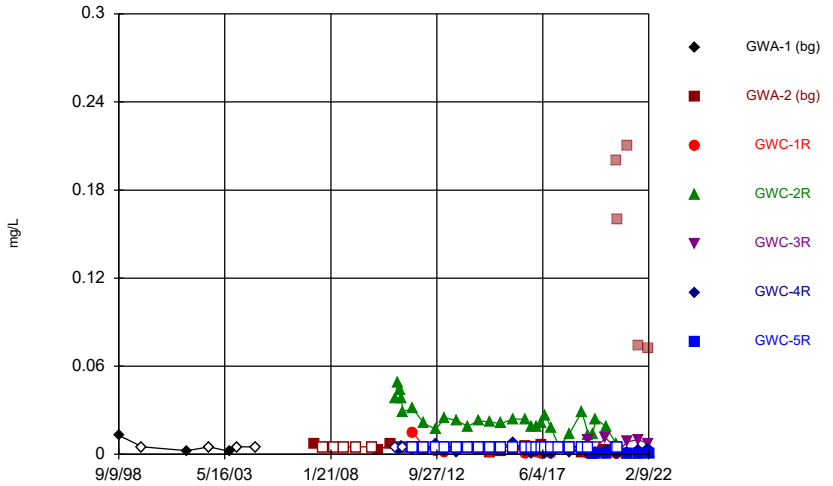
Time Series



Constituent: Chromium Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

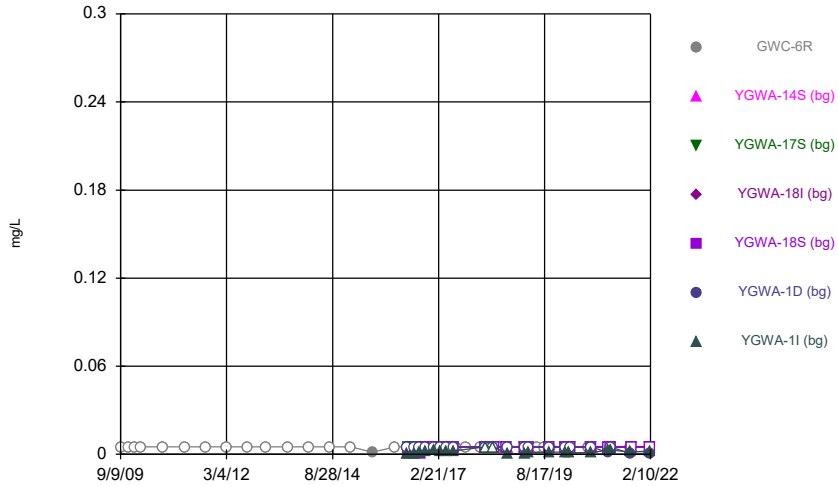
Time Series



Constituent: Cobalt Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

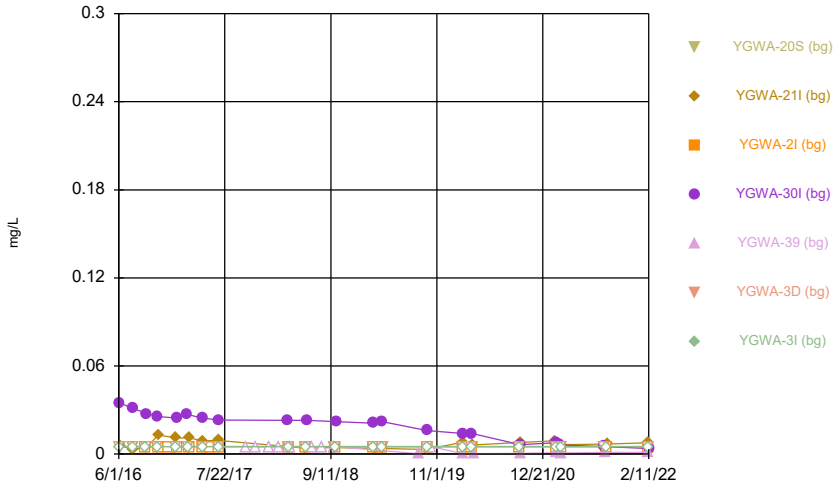
Time Series



Constituent: Cobalt Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

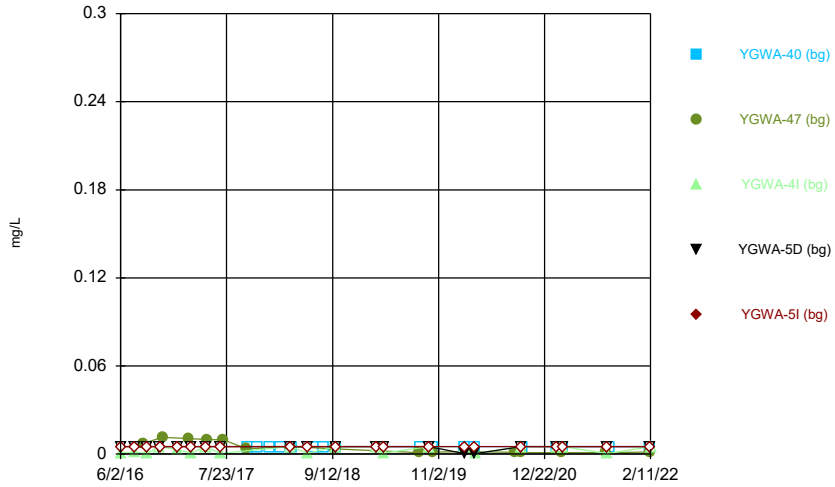
Time Series



Constituent: Cobalt Analysis Run 4/28/2022 8:11 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

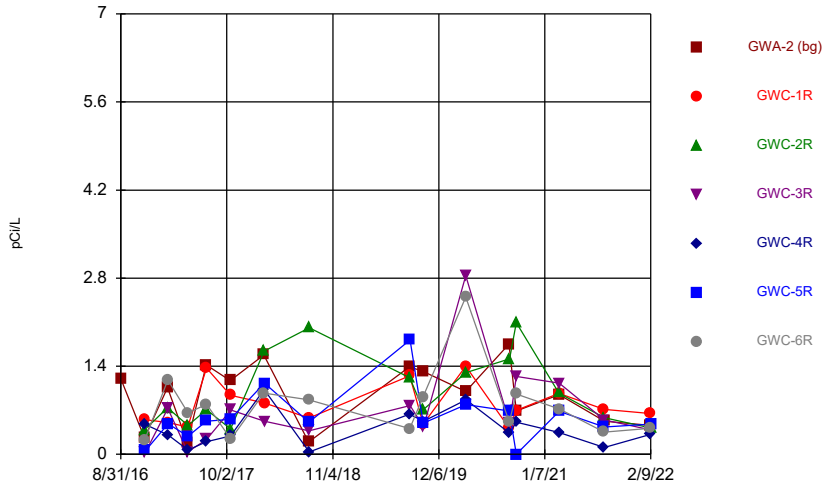
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

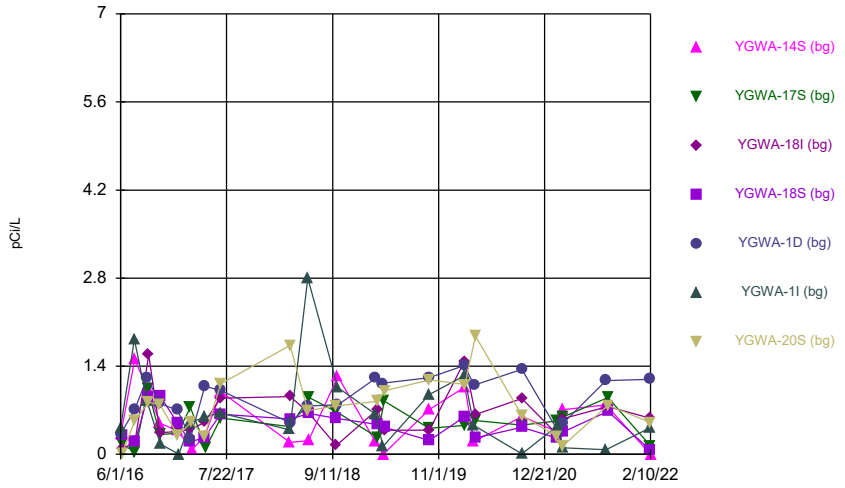
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

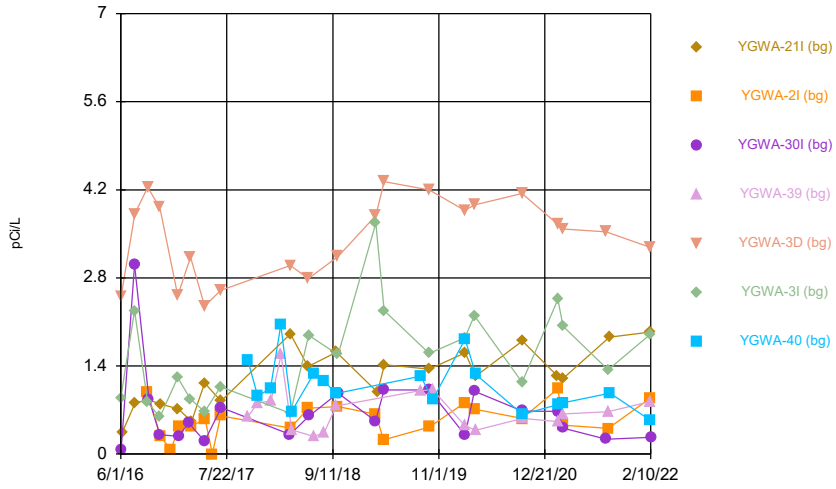
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

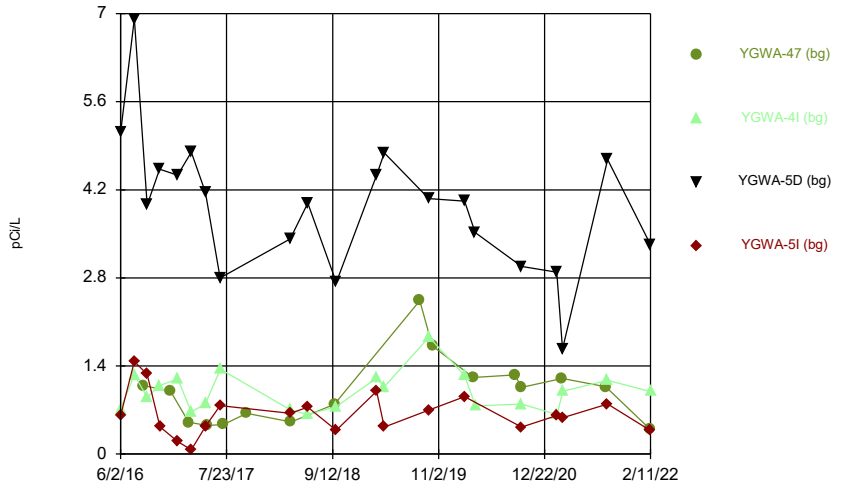
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

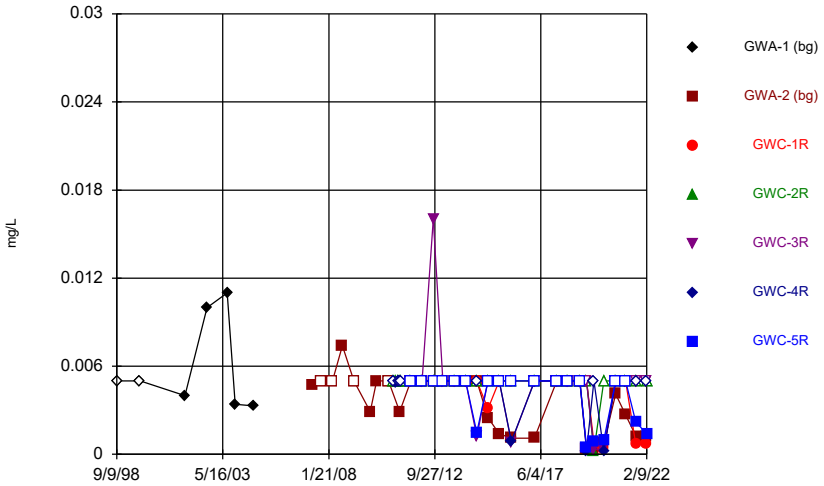
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

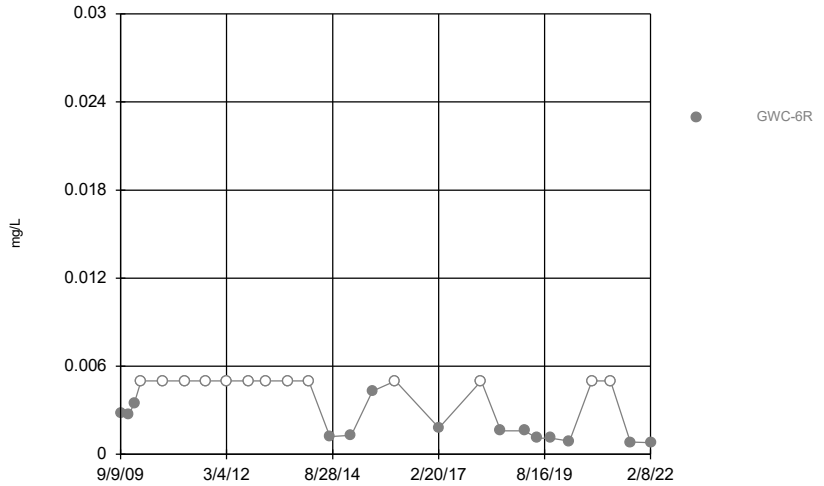
Time Series



Constituent: Copper Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

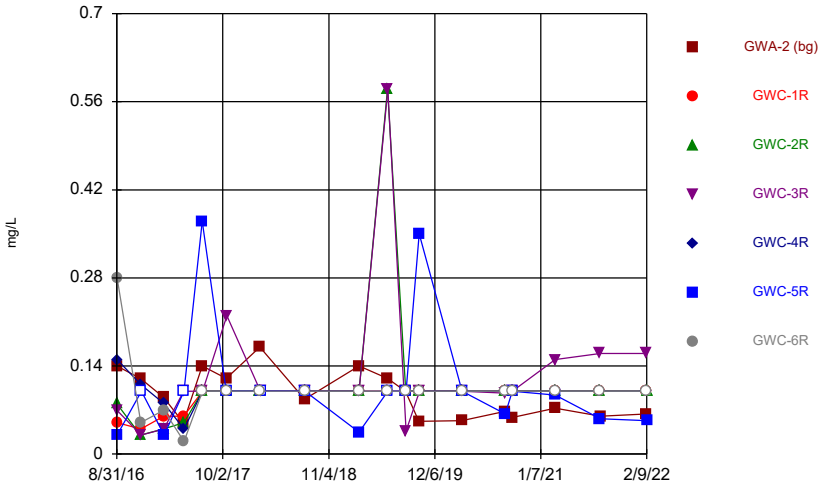
Time Series



Constituent: Copper Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

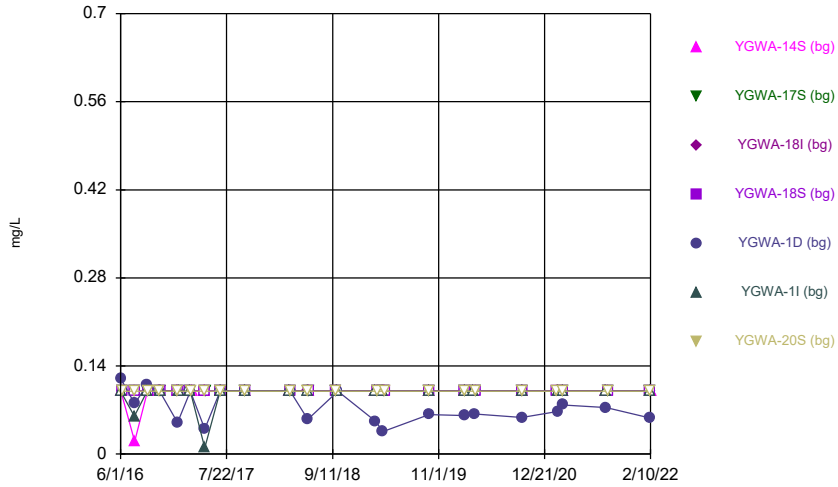
Time Series



Constituent: Fluoride Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

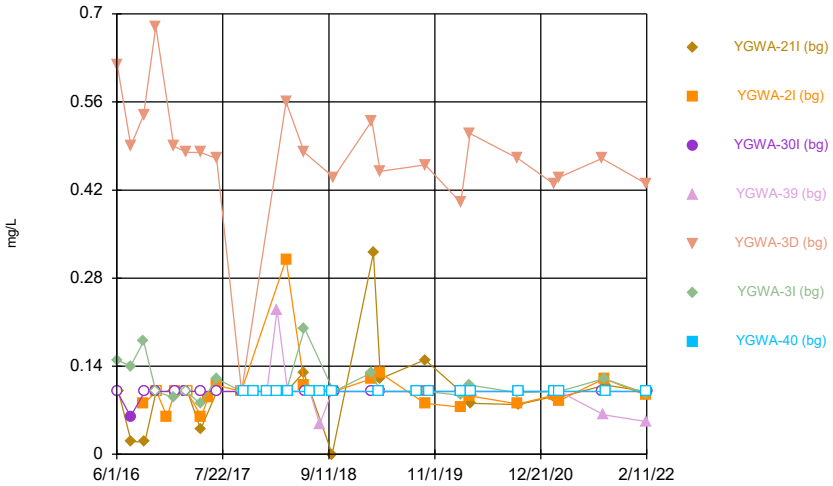
Time Series



Constituent: Fluoride Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

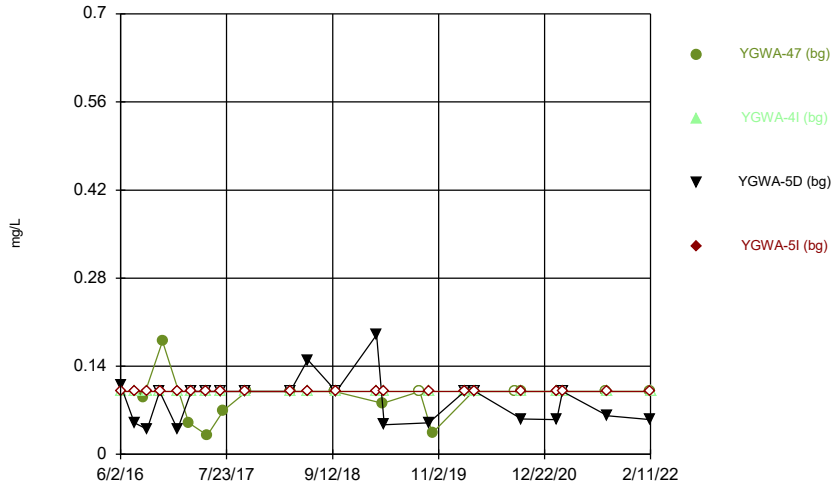
Time Series



Constituent: Fluoride Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

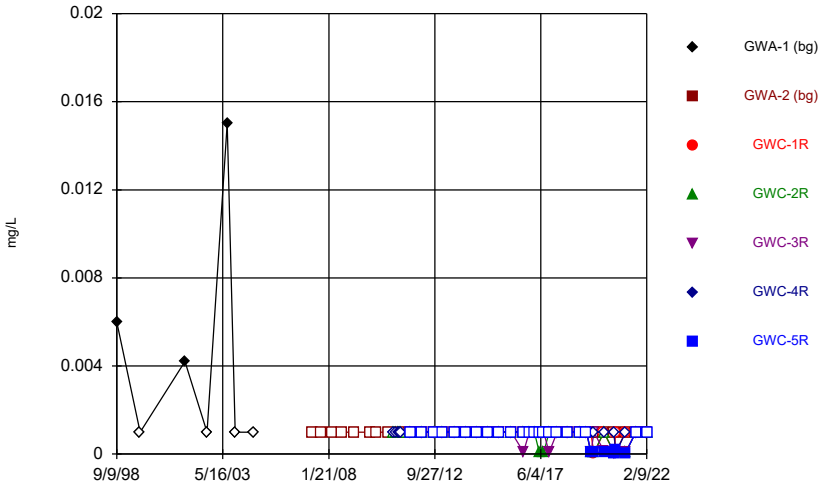
Time Series



Constituent: Fluoride Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

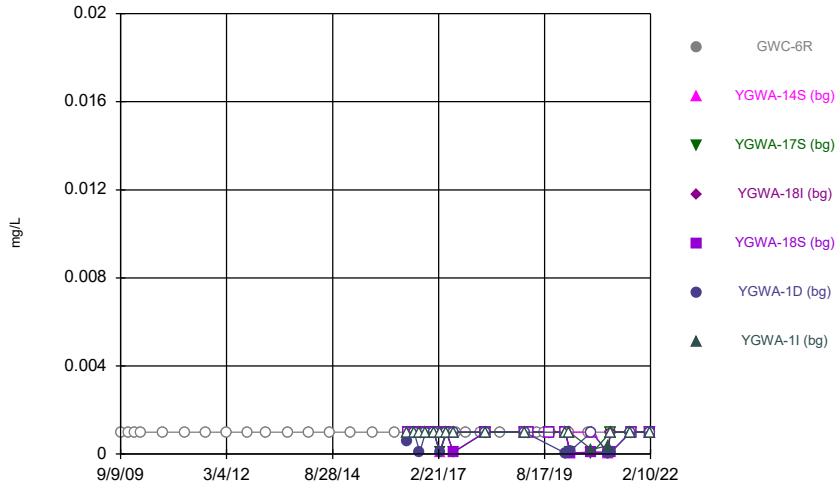
Time Series



Constituent: Lead Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

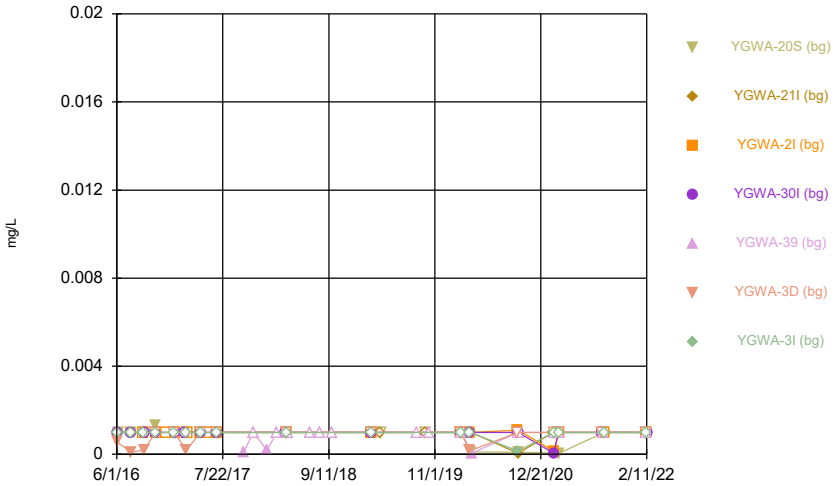
Time Series



Constituent: Lead Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

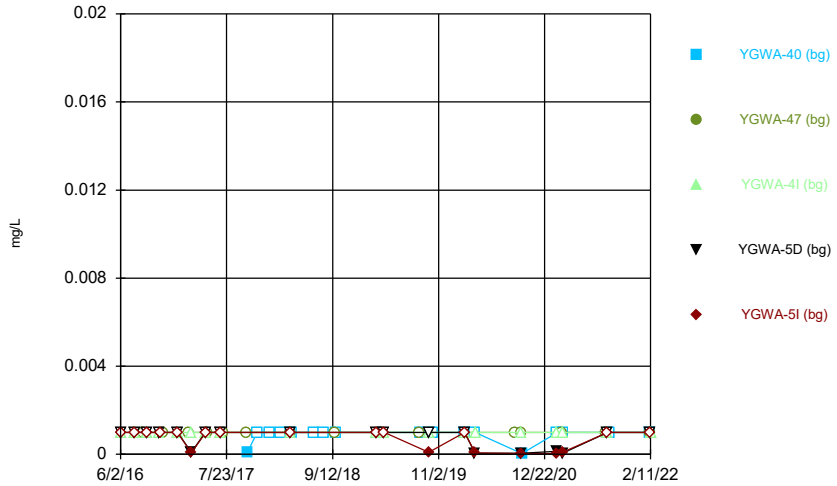
Time Series



Constituent: Lead Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

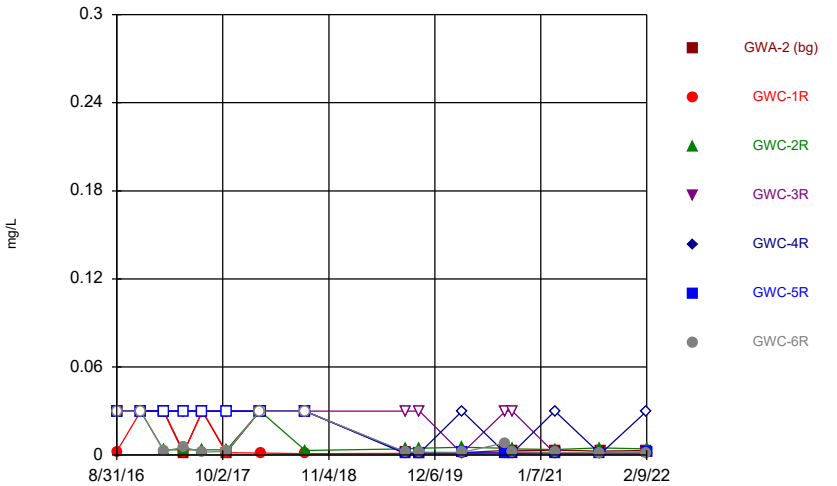
Time Series



Constituent: Lead Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

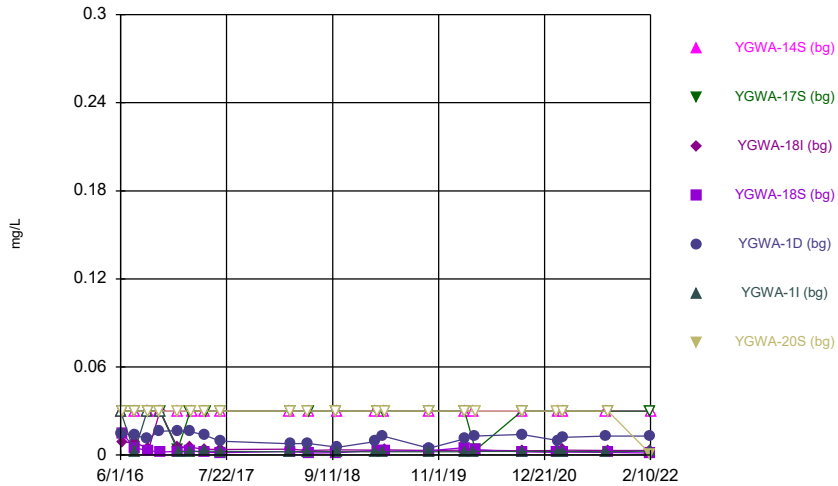
Time Series



Constituent: Lithium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

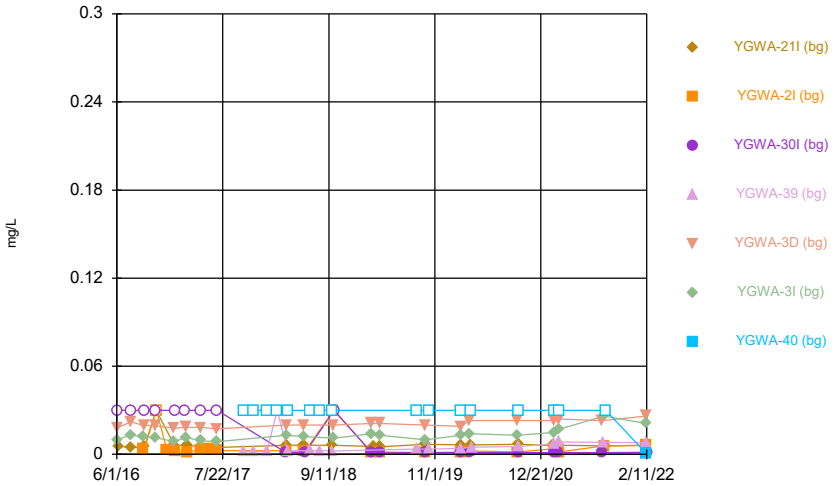
Time Series



Constituent: Lithium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

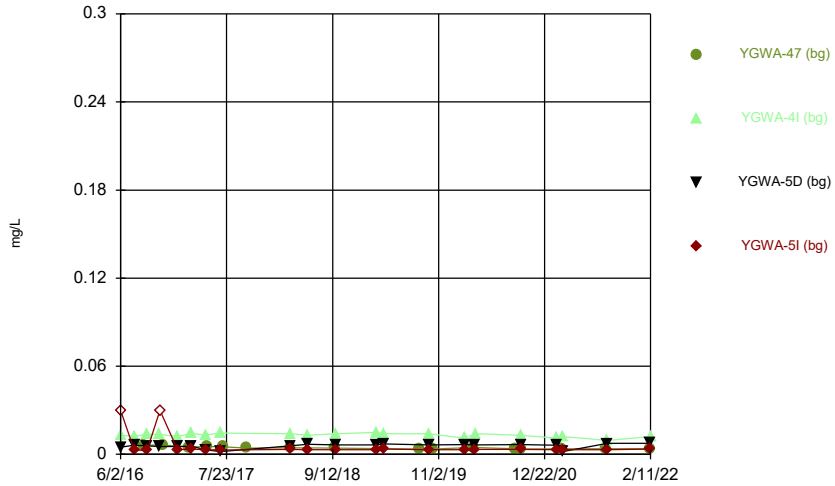
Time Series



Constituent: Lithium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

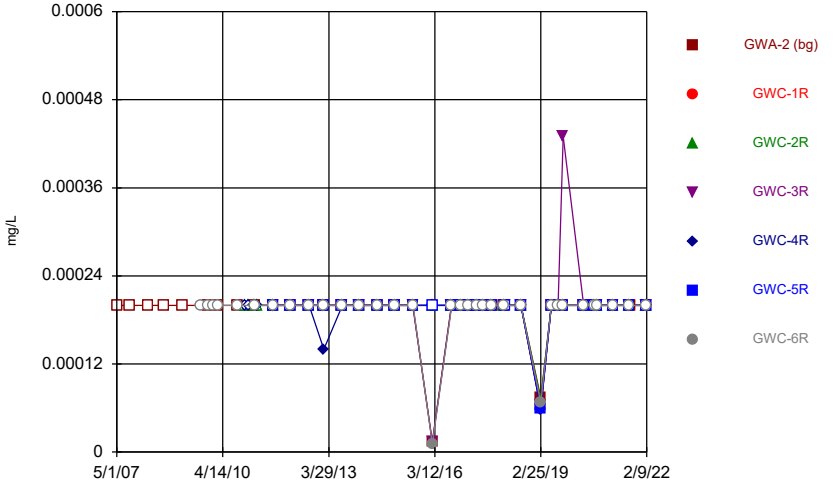
Time Series



Constituent: Lithium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

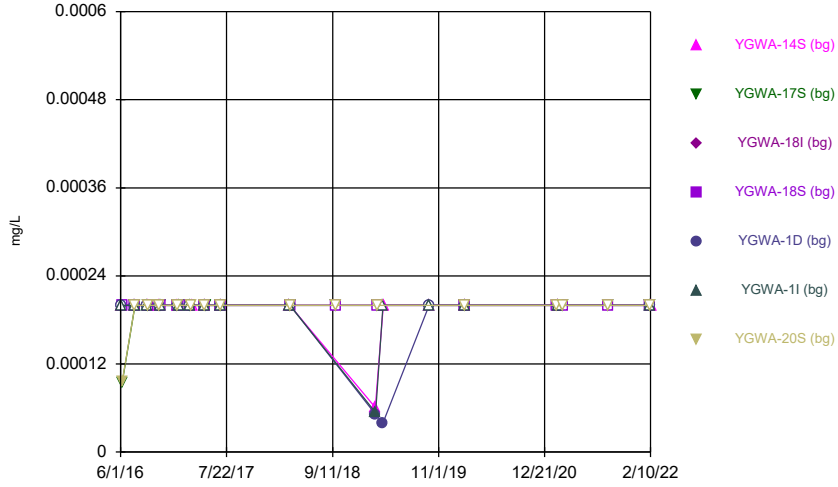
Time Series



Constituent: Mercury Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

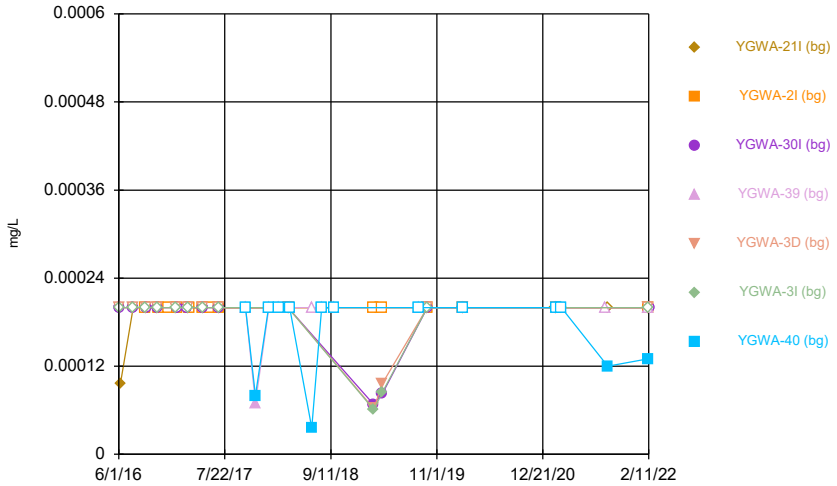
Time Series



Constituent: Mercury Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

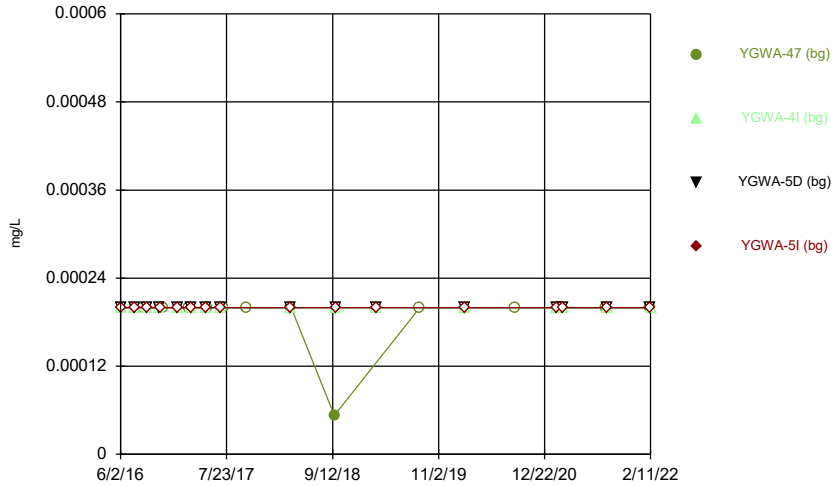
Time Series



Constituent: Mercury Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

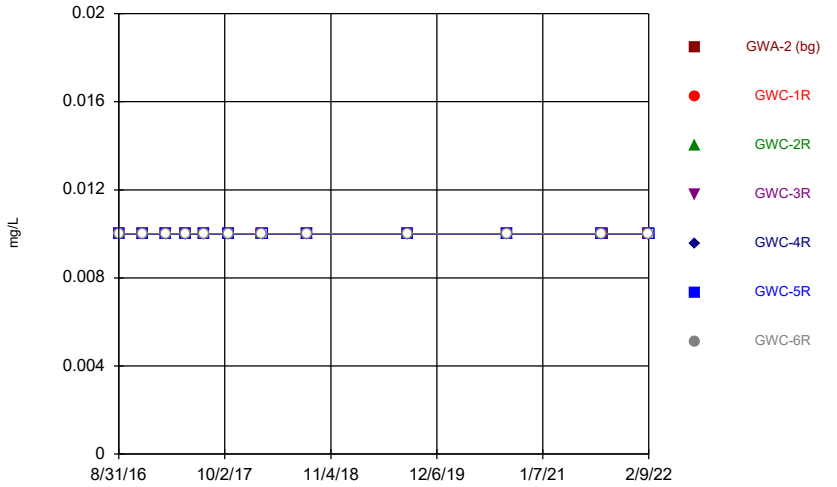
Time Series



Constituent: Mercury Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

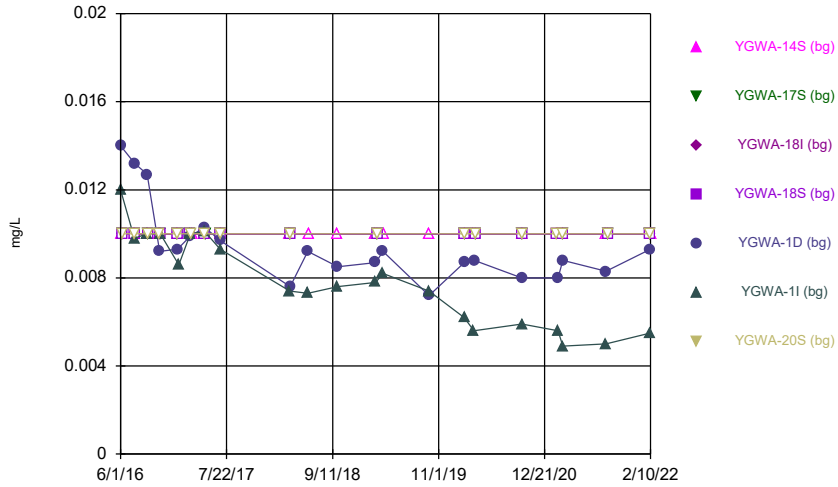
Time Series



Constituent: Molybdenum Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

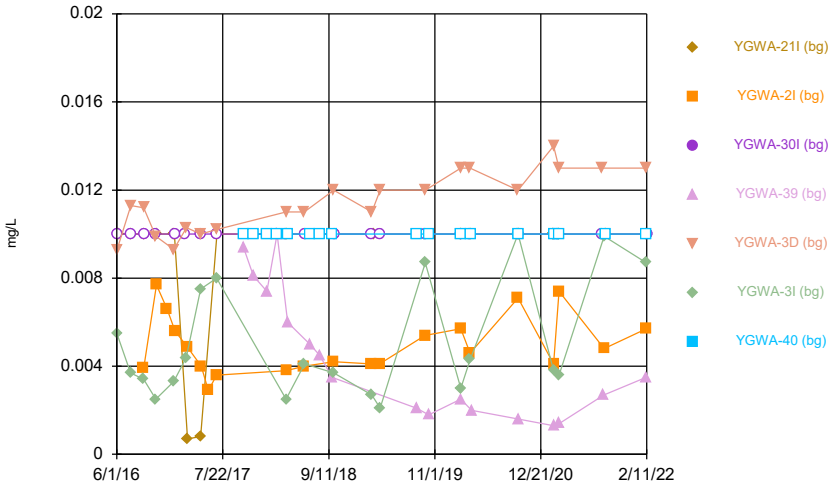
Time Series



Constituent: Molybdenum Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
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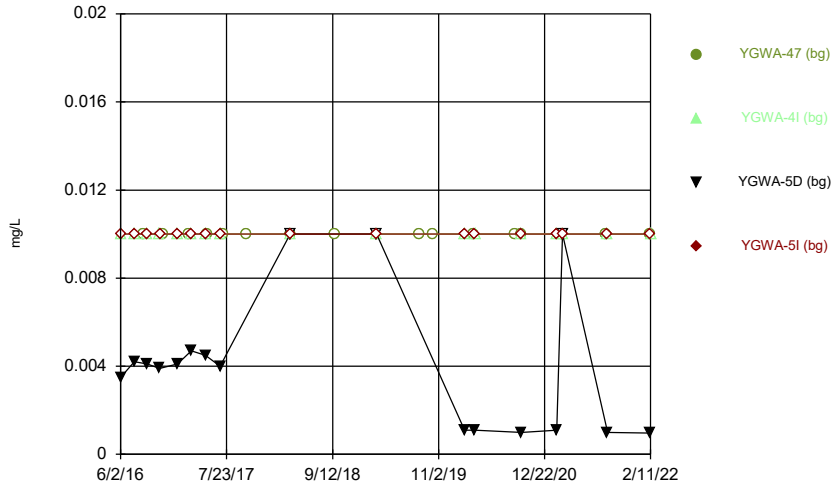
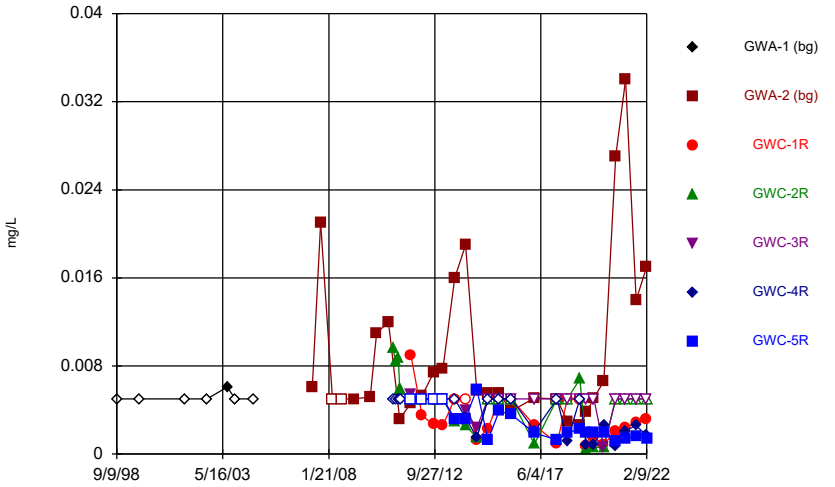
Time Series



Constituent: Molybdenum Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

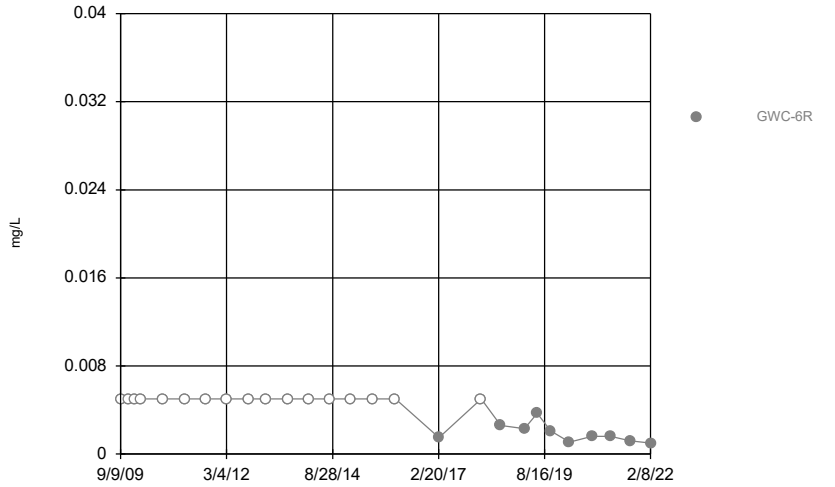
Time Series



Constituent: Nickel Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

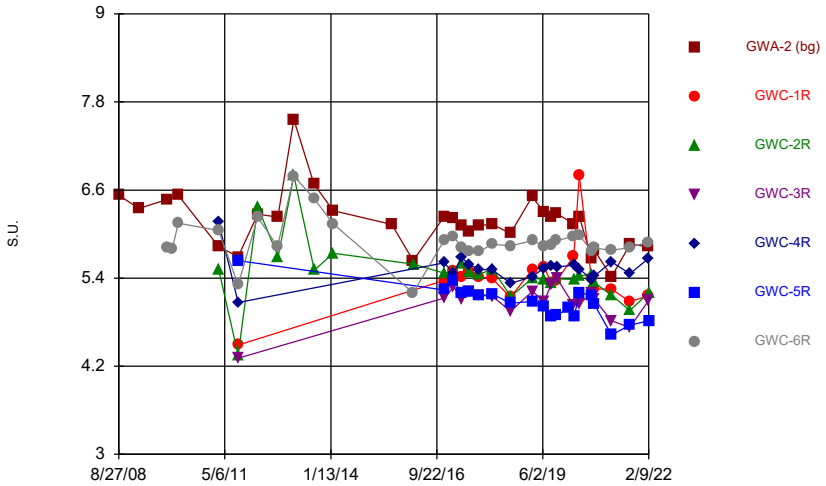
Time Series



Constituent: Nickel Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

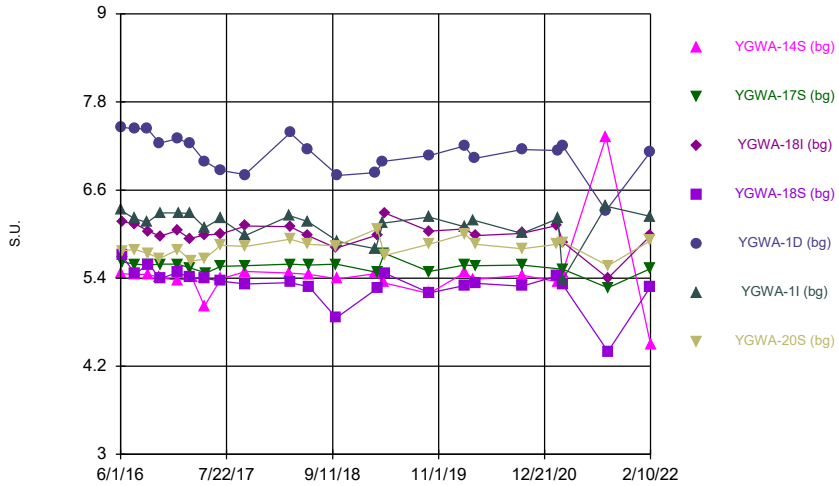
Time Series



Constituent: pH Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

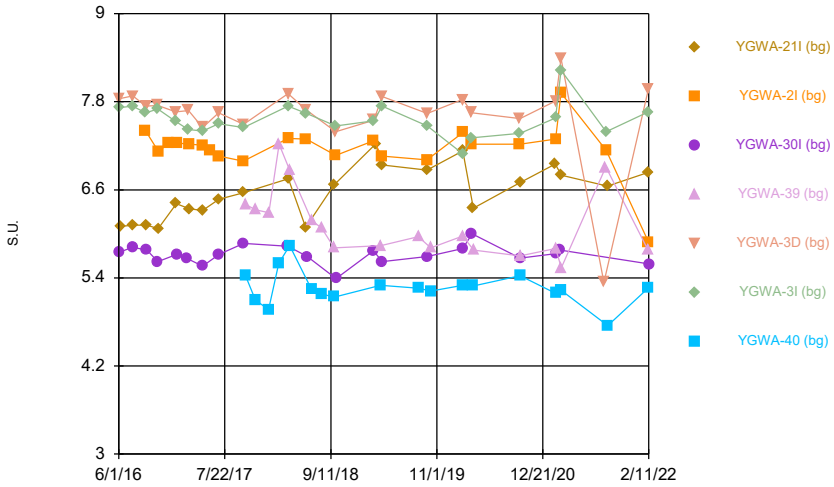
Time Series



Constituent: pH Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

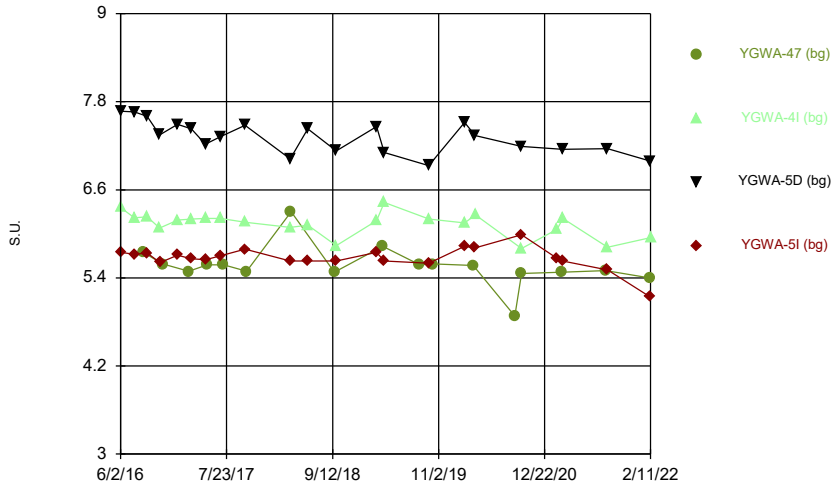
Time Series



Constituent: pH Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

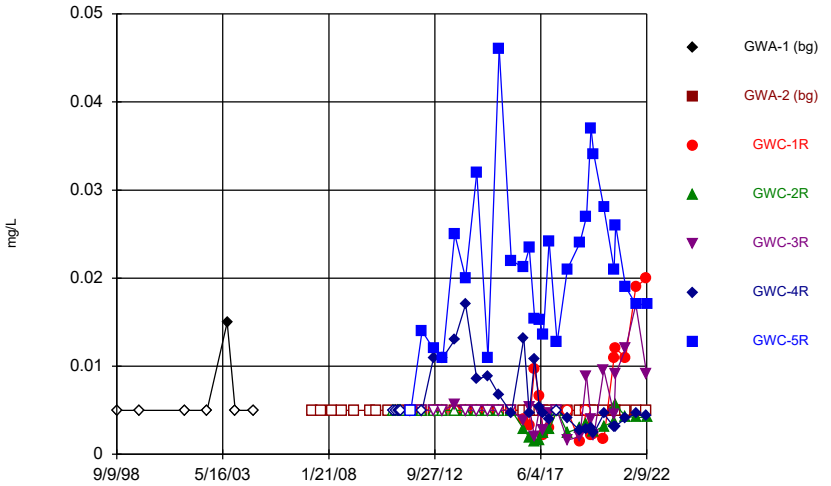
Time Series



Constituent: pH Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

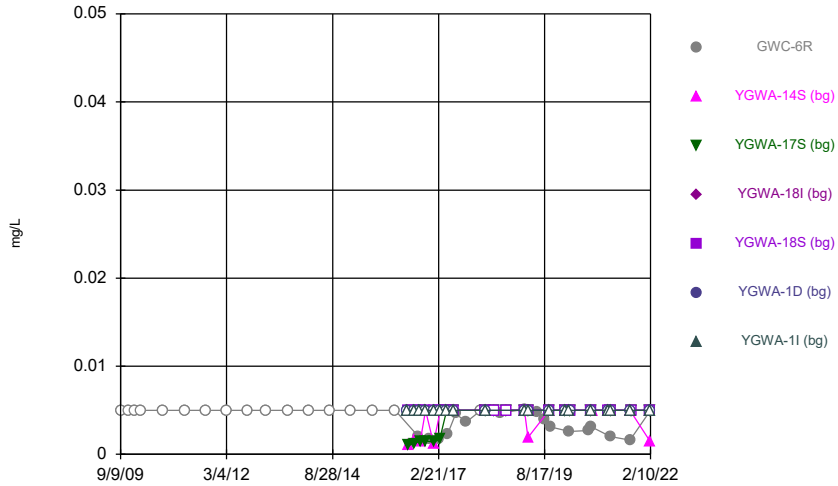
Time Series



Constituent: Selenium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

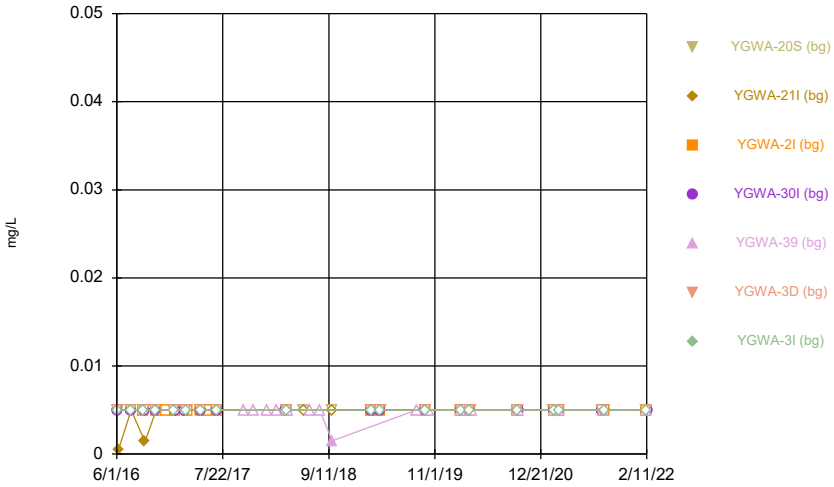
Time Series



Constituent: Selenium Analysis Run 4/28/2022 8:12 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

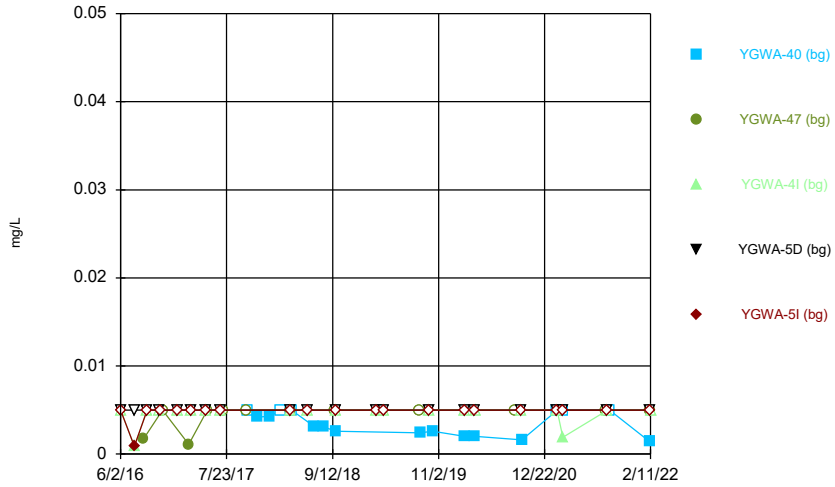
Time Series



Constituent: Selenium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

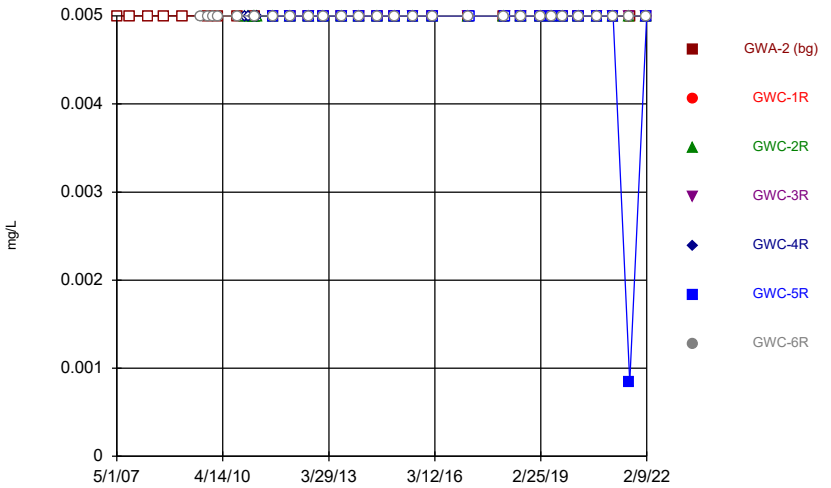
Time Series



Constituent: Selenium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

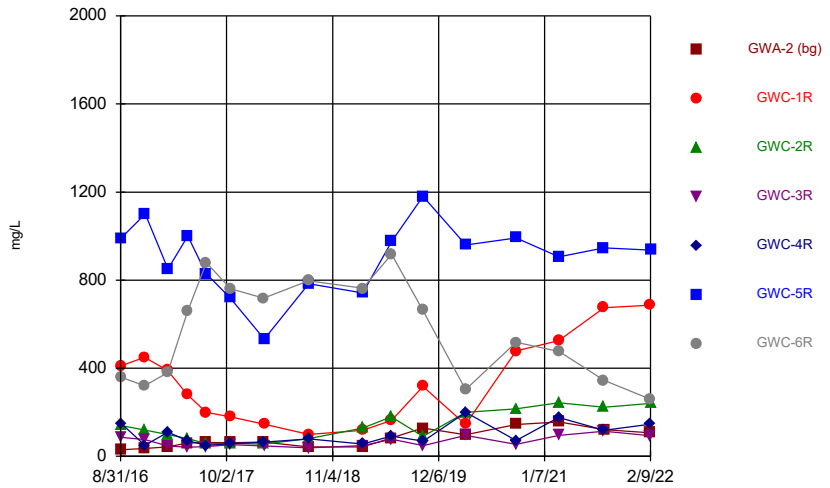
Time Series



Constituent: Silver Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

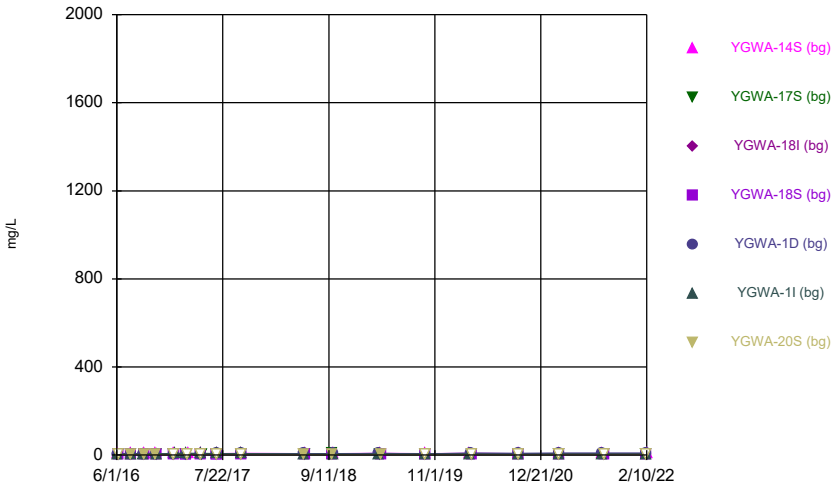
Time Series



Constituent: Sulfate Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

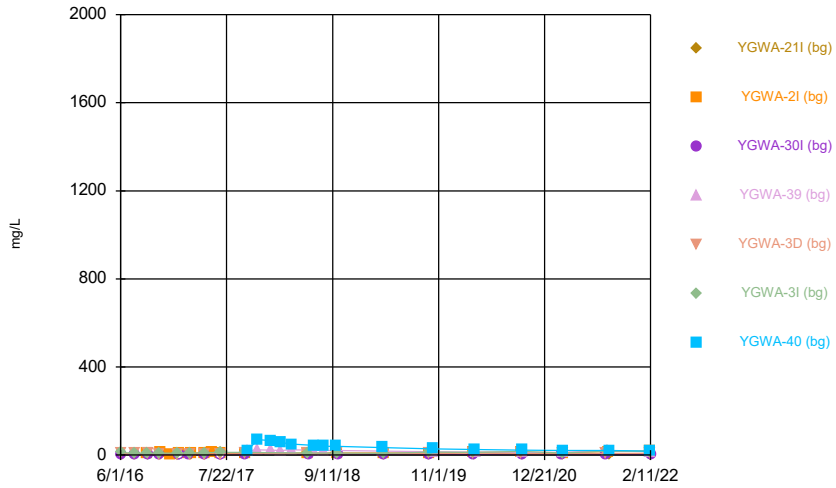
Time Series



Constituent: Sulfate Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

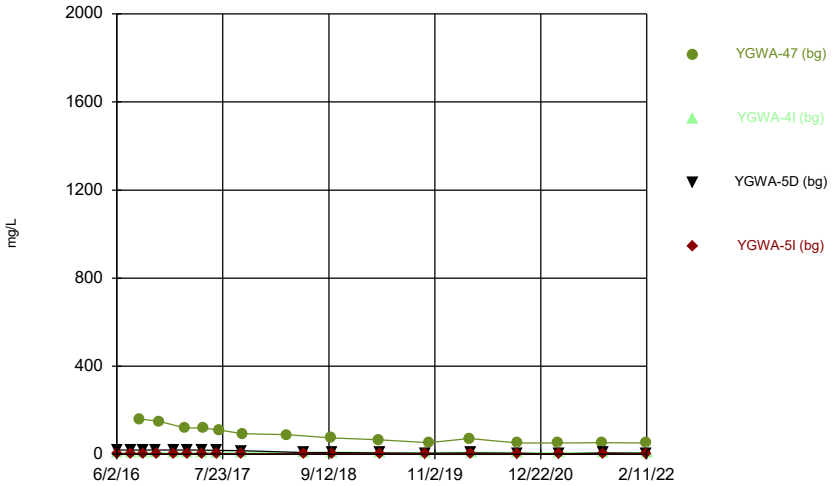
Time Series



Constituent: Sulfate Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

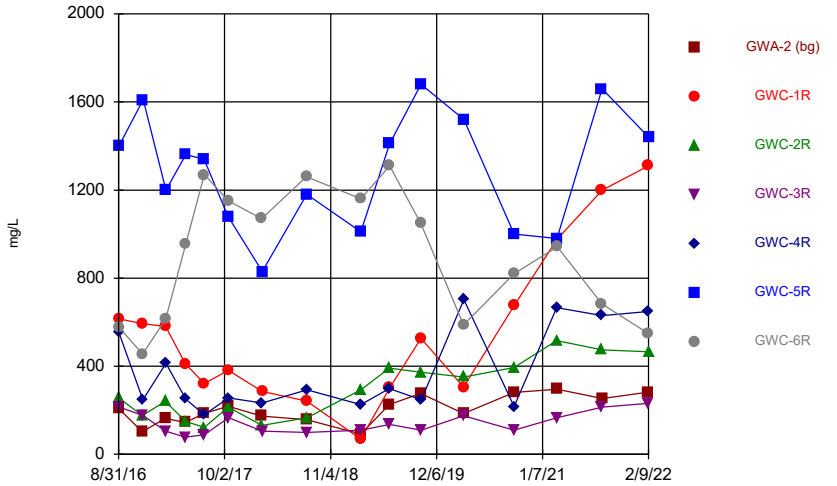
Time Series



Constituent: Sulfate Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

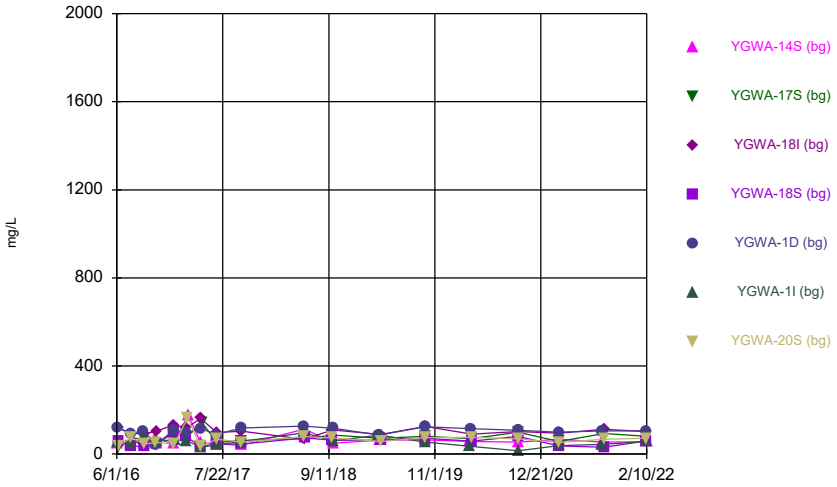
Time Series



Constituent: TDS Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

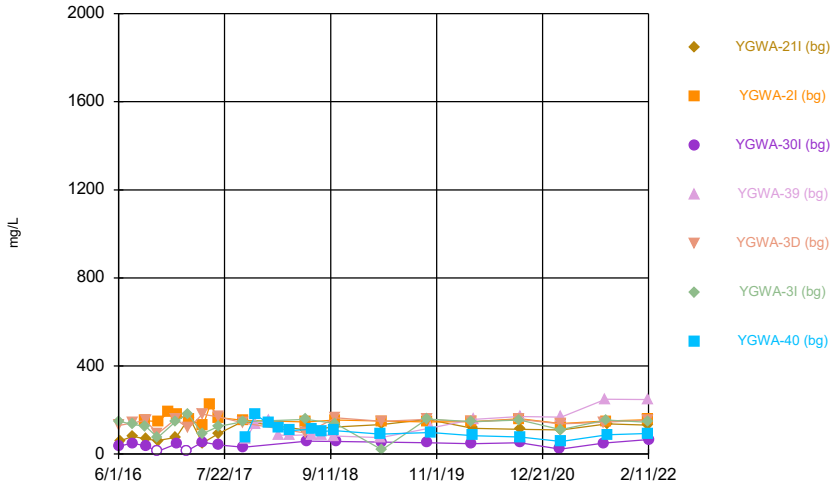
Time Series



Constituent: TDS Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

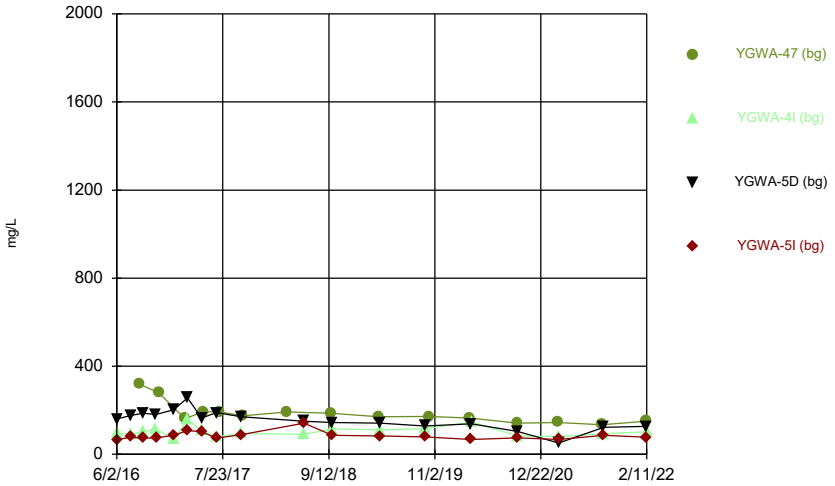
Time Series



Constituent: TDS Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

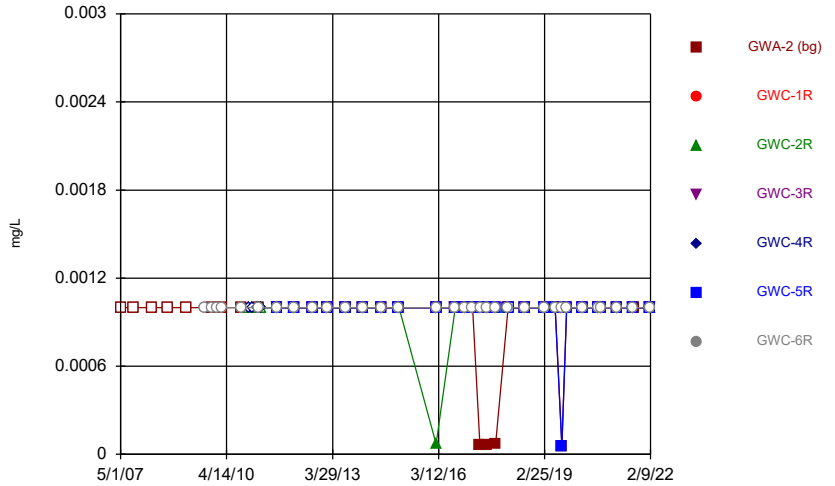
Time Series



Constituent: TDS Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

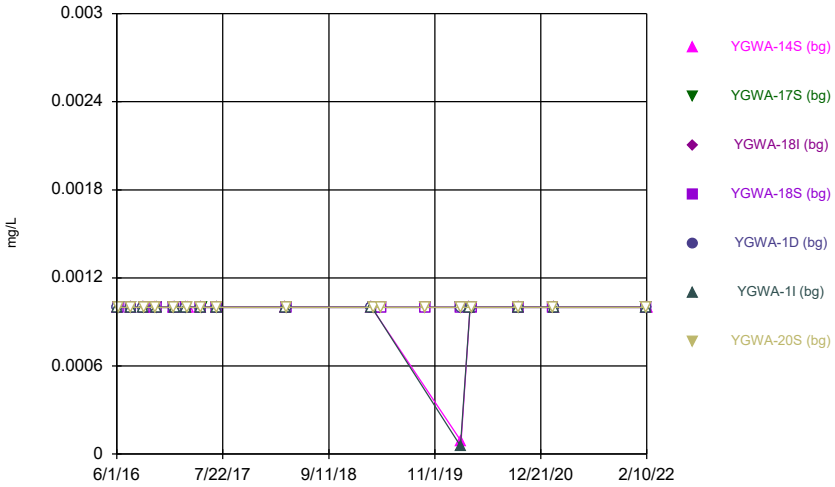
Time Series



Constituent: Thallium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

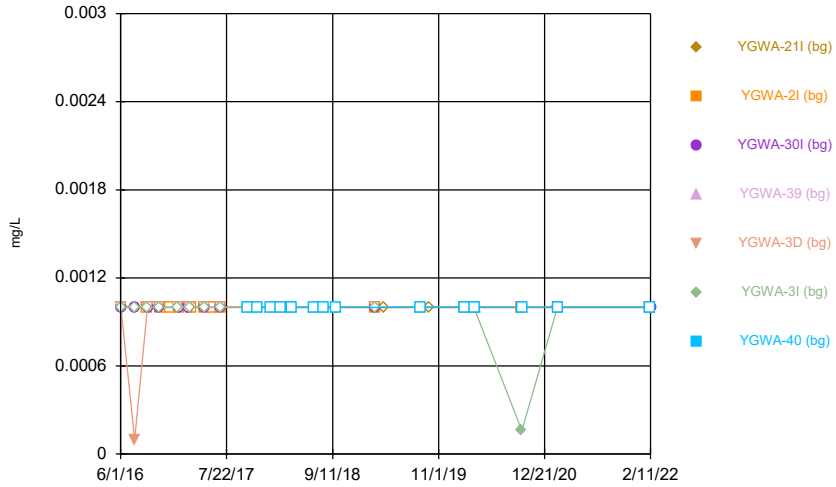
Time Series



Constituent: Thallium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

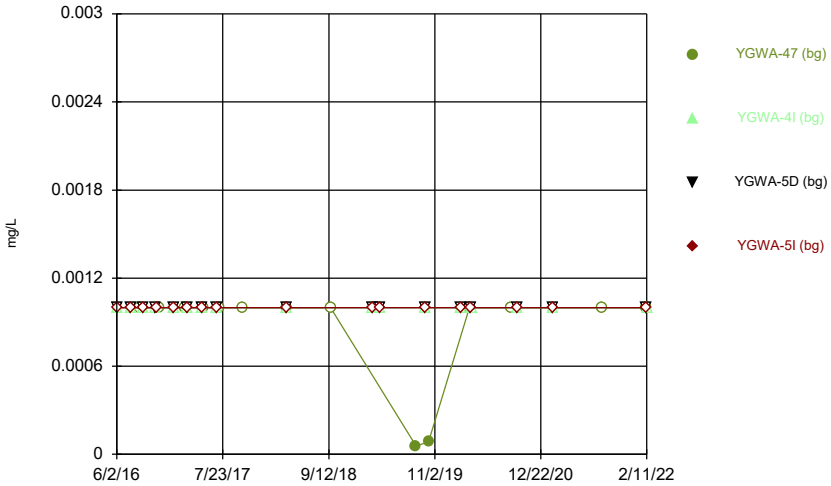
Time Series



Constituent: Thallium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

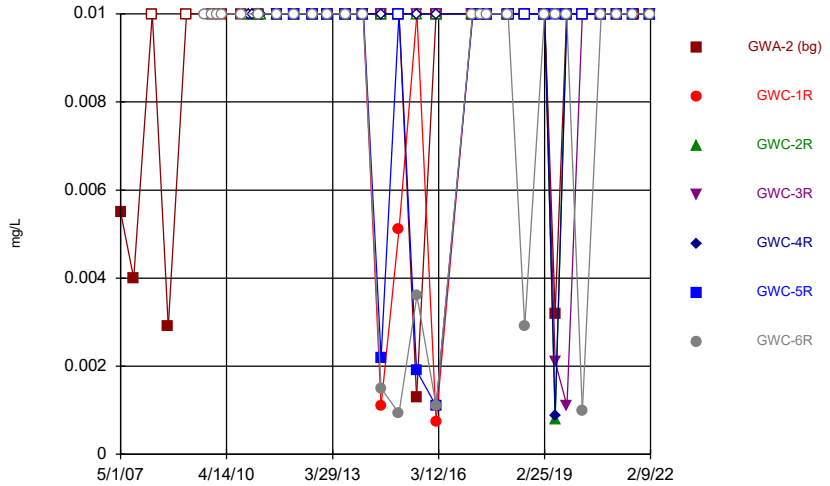
Time Series



Constituent: Thallium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

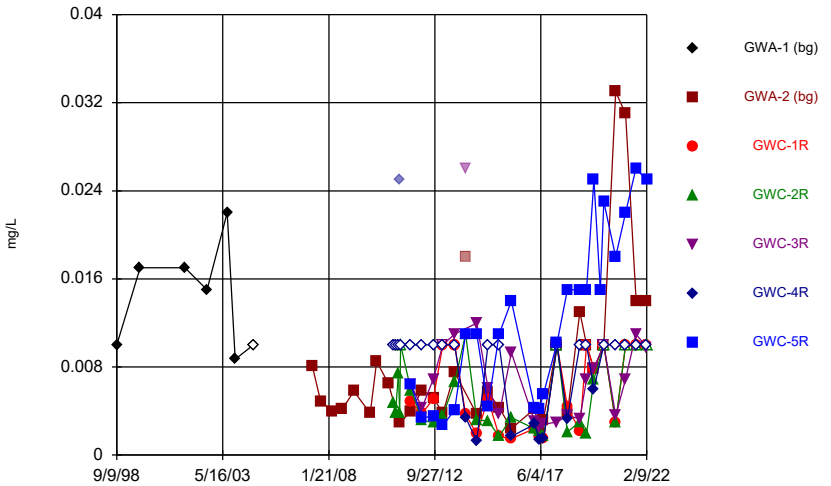
Time Series



Constituent: Vanadium Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

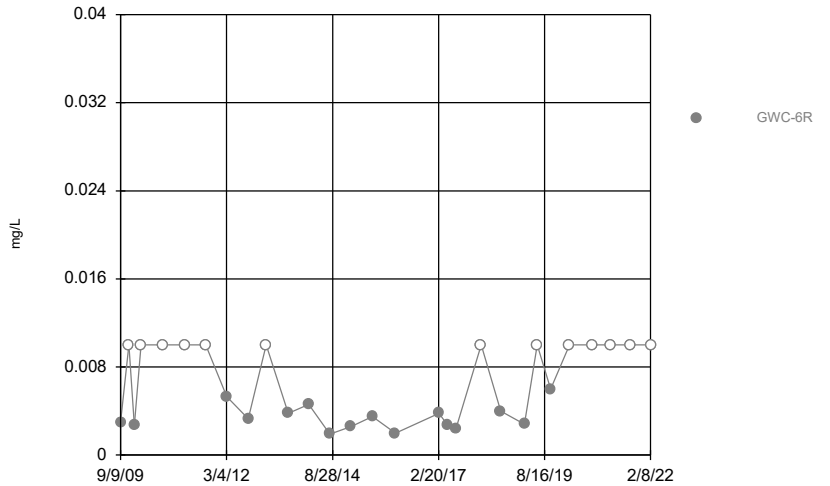
Time Series



Constituent: Zinc Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 4/28/2022 8:13 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.003						
9/11/2007	<0.003						
3/20/2008	<0.003						
8/27/2008	<0.003						
3/3/2009	<0.003						
9/9/2009							<0.003
11/18/2009	<0.003						<0.003
1/5/2010							<0.003
3/3/2010	<0.003						<0.003
9/7/2010							<0.003
9/8/2010	<0.003						
11/22/2010			<0.003		<0.003		
1/4/2011			<0.003		<0.003		
2/17/2011			<0.003		<0.003		
3/10/2011	<0.003						<0.003
3/11/2011			<0.003		<0.003		
3/28/2011			<0.003		<0.003		
9/7/2011			<0.003	<0.003	<0.003	<0.003	
9/8/2011	<0.003	<0.003					<0.003
3/4/2012					<0.003		
3/5/2012	<0.003	<0.003		<0.003		<0.003	<0.003
3/6/2012			<0.003				
9/5/2012		<0.003		<0.003		<0.003	<0.003
9/10/2012	<0.003				<0.003		
9/11/2012			<0.003				
2/5/2013		<0.003				<0.003	<0.003
2/6/2013	<0.003		<0.003	<0.003	<0.003		
8/12/2013	<0.003						
8/13/2013		<0.003	<0.003	<0.003			<0.003
8/14/2013					<0.003	<0.003	
2/4/2014		<0.003	<0.003		<0.003		<0.003
2/5/2014	<0.003			<0.003		<0.003	
8/4/2014				<0.003	<0.003	<0.003	
8/5/2014	<0.003	<0.003	<0.003				<0.003
2/2/2015		<0.003	<0.003		<0.003		
2/3/2015				<0.003		<0.003	<0.003
2/4/2015	<0.003						
8/3/2015	<0.003			<0.003 (D)	<0.003 (D)	<0.003 (D)	
8/4/2015		<0.003 (D)	<0.003				<0.003
2/16/2016	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
2/17/2016			<0.003				
8/31/2016	<0.003	<0.003	<0.003	<0.003			
9/1/2016					0.0014 (J)	<0.003	<0.003
11/28/2016	0.0014 (J)		<0.003				
11/29/2016		<0.003					<0.003
11/30/2016				<0.003	<0.003		
12/1/2016						<0.003	
2/22/2017	<0.003		<0.003				
2/23/2017		<0.003		<0.003			<0.003
2/24/2017					<0.003	<0.003	
5/8/2017	<0.003						
5/9/2017		<0.003		<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.003		<0.003	<0.003	<0.003
7/17/2017	<0.003					<0.003	
7/18/2017		<0.003	<0.003	<0.003	<0.003		<0.003
10/16/2017	<0.003					<0.003	
10/17/2017		<0.003	<0.003		<0.003		
10/18/2017				<0.003			<0.003
2/19/2018	<0.003						<0.003
2/20/2018			<0.003		<0.003		
2/21/2018		<0.003		<0.003		<0.003	
8/6/2018	<0.003						<0.003
8/7/2018		<0.003		<0.003		<0.003	
8/8/2018			<0.003		<0.003		
2/25/2019	<0.003						<0.003
2/26/2019		<0.003	<0.003	<0.003	<0.003	<0.003	
6/12/2019	<0.003		<0.003		0.00028 (J)		
6/13/2019		<0.003		<0.003		<0.003	<0.003
8/19/2019	<0.003				<0.003		
8/20/2019		<0.003	<0.003				<0.003
8/21/2019				<0.003		0.00054 (J)	
10/8/2019	<0.003						<0.003
10/9/2019		<0.003	<0.003			<0.003	
10/10/2019				<0.003	<0.003		
3/17/2020	<0.003	<0.003		<0.003			<0.003
3/18/2020			<0.003		<0.003	<0.003	
8/26/2020	0.00042 (J)						
8/27/2020		<0.003				<0.003	<0.003
8/28/2020			<0.003	<0.003	<0.003		
9/22/2020	0.00044 (J)	<0.003	0.0017 (J)	<0.003	0.00053 (J)		
9/23/2020						0.00031 (J)	<0.003
3/1/2021		<0.003	<0.003		<0.003		
3/2/2021	<0.003			<0.003		<0.003	
3/3/2021							<0.003
8/18/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/20/2021	<0.003						
2/8/2022	<0.003	<0.003		<0.003	0.0017 (J)		<0.003
2/9/2022			<0.003			<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.003	<0.003	
6/2/2016	<0.003						
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003					<0.003
7/25/2016						<0.003	
7/26/2016	0.0005 (J)				0.001 (J)		
7/27/2016		<0.003	0.0005 (J)	<0.003			<0.003
9/13/2016					0.001 (J)	<0.003	
9/15/2016	<0.003						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003				<0.003
11/1/2016					0.0015 (J)		
11/2/2016	<0.003						<0.003
11/3/2016		<0.003	<0.003	<0.003			
11/4/2016						<0.003	
1/10/2017	<0.003						
1/11/2017		<0.003	<0.003	<0.003	<0.003		
1/13/2017							<0.003
1/16/2017						<0.003	
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003			0.0004 (J)	<0.003	
3/6/2017							<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)	
5/2/2017		<0.003					
6/27/2017					<0.003	<0.003	
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003					<0.003
6/30/2017	<0.003						
3/27/2018	<0.003					<0.003	
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003		<0.003
2/26/2019	<0.003						
2/27/2019					<0.003	<0.003	
3/5/2019		<0.003		<0.003			<0.003
3/6/2019			<0.003				
4/2/2019		<0.003					
4/3/2019			<0.003	<0.003			<0.003
9/25/2019		<0.003					<0.003
9/26/2019			0.00056 (J)	<0.003			
2/10/2020					0.00088 (J)	<0.003	
2/11/2020		<0.003	<0.003	<0.003			
2/12/2020	<0.003						<0.003
3/18/2020	<0.003					0.0004 (J)	
3/19/2020					<0.003		
3/24/2020		<0.003	<0.003	<0.003			<0.003
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
9/24/2020							<0.003
9/25/2020	<0.003						
2/9/2021			<0.003	<0.003			0.00032 (J)
2/10/2021	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.003	<0.003	
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
8/19/2021	<0.003				<0.003	<0.003	
8/26/2021				<0.003			
8/27/2021		<0.003	<0.003				<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.003	
6/2/2016			<0.003		<0.003		
6/7/2016	<0.003						
7/25/2016			<0.003			<0.003	
7/26/2016					0.002 (J)		
7/28/2016	<0.003						
9/14/2016		<0.003				<0.003	
9/15/2016					0.0027 (J)		
9/19/2016	0.001 (J)		<0.003				
11/1/2016			<0.003		<0.003	<0.003	
11/3/2016	<0.003						
11/4/2016		<0.003					
12/15/2016		0.0012 (J)					
1/11/2017					<0.003	<0.003	
1/13/2017	<0.003						
1/16/2017		<0.003	<0.003				
2/21/2017			<0.003				
3/1/2017						<0.003	
3/2/2017					0.0008 (J)		
3/3/2017		<0.003					
3/6/2017	0.0005 (J)						
4/26/2017	<0.003		<0.003		<0.003	<0.003	
4/28/2017		0.0015 (J)					
5/26/2017		0.0005 (J)					
6/28/2017		<0.003			<0.003	<0.003	
6/29/2017	<0.003						
6/30/2017			<0.003				
10/11/2017				0.0006 (J)			
10/12/2017							<0.003
11/20/2017				<0.003			<0.003
1/10/2018							<0.003
1/11/2018				<0.003			
2/19/2018							<0.003
2/20/2018				<0.003			
3/27/2018			<0.003				
3/28/2018		<0.003			<0.003	<0.003	
3/29/2018	<0.003						
4/3/2018				<0.003			<0.003
6/28/2018				<0.003			<0.003
8/7/2018				<0.003			<0.003
9/24/2018				<0.003			<0.003
2/26/2019			<0.003				
2/27/2019		<0.003			<0.003	<0.003	
3/5/2019	0.0011 (J)						
4/2/2019	0.0011 (J)						
8/21/2019				<0.003			<0.003
9/24/2019	0.0035						
2/11/2020		0.00036 (J)				<0.003	
2/12/2020	0.0015 (J)		<0.003	<0.003	<0.003		<0.003
3/19/2020		0.0003 (J)	<0.003		0.00064 (J)	<0.003	
3/24/2020	0.0017 (J)						<0.003
3/25/2020				0.0014 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/23/2020		<0.003			<0.003	<0.003	
9/24/2020	0.0047		<0.003	<0.003			<0.003
2/9/2021	0.0013 (J)						
2/10/2021		0.0013 (J)		<0.003	<0.003	<0.003	<0.003
2/11/2021			<0.003				
3/1/2021			<0.003				
3/3/2021		<0.003			<0.003	<0.003	
3/4/2021	0.0014 (J)			<0.003			<0.003
8/19/2021			<0.003		<0.003		
8/26/2021				<0.003			
8/27/2021		<0.003				<0.003	
9/1/2021	<0.003						
9/3/2021							<0.003
2/8/2022				<0.003			<0.003
2/9/2022	<0.003	<0.003			0.0018 (J)	<0.003	
2/11/2022			<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.003	<0.003	<0.003
7/26/2016		0.0003 (J)	<0.003	<0.003
8/30/2016	0.0028 (J)			
9/14/2016		<0.003	<0.003	<0.003
11/2/2016		<0.003	<0.003	
11/4/2016				<0.003
11/14/2016	<0.003			
1/12/2017			<0.003	<0.003
1/13/2017		<0.003		
2/24/2017	<0.003			
3/6/2017		<0.003		
3/7/2017			<0.003	<0.003
5/1/2017		<0.003	<0.003	
5/2/2017				<0.003
5/8/2017	0.0004 (J)			
6/27/2017			<0.003	<0.003
6/29/2017		<0.003		
7/11/2017	0.0006 (J)			
10/10/2017	<0.003			
3/29/2018		<0.003	<0.003	<0.003
4/2/2018	<0.003			
9/19/2018	<0.003			
3/4/2019		<0.003	<0.003	<0.003
4/3/2019		<0.003	<0.003	<0.003
8/20/2019	<0.003			
9/24/2019			<0.003	<0.003
9/25/2019		<0.003		
2/12/2020		<0.003	<0.003	<0.003
3/24/2020			<0.003	<0.003
3/25/2020		<0.003		
8/27/2020	0.00048 (J)			
9/22/2020	<0.003	<0.003	<0.003	<0.003
2/8/2021			<0.003	<0.003
2/9/2021		<0.003		
3/1/2021	0.00048 (J)			
3/2/2021			<0.003	<0.003
3/3/2021		<0.003		
8/19/2021	<0.003			
8/26/2021		<0.003	<0.003	<0.003
2/8/2022	<0.003			
2/10/2022			<0.003	<0.003
2/11/2022		<0.003		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	<0.005						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		<0.005					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		<0.005	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	<0.005	<0.005		
8/14/2013						<0.005	<0.005
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					<0.005	<0.005	<0.005
8/5/2014		<0.005	<0.005	<0.005			
2/2/2015			<0.005	<0.005		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		<0.005					
8/3/2015		<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		<0.005	<0.005		<0.005	<0.005	<0.005
2/17/2016				<0.005			
8/31/2016		<0.005	<0.005	<0.005	<0.005		
9/1/2016						<0.005	<0.005
11/28/2016		<0.005		<0.005			
11/29/2016			<0.005				
11/30/2016					<0.005	<0.005	
12/1/2016							<0.005
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
5/8/2017		<0.005					
5/9/2017			0.0005 (J)		<0.005		
5/10/2017				<0.005		<0.005	0.0011 (J)
7/17/2017		<0.005					0.0013 (J)
7/18/2017			<0.005	<0.005	<0.005	<0.005	
10/16/2017		<0.005					0.0011 (J)
10/17/2017			0.0009 (J)	<0.005		<0.005	
10/18/2017					<0.005		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		0.00091 (J)
8/6/2018		<0.005					
8/7/2018			<0.005		<0.005		0.0021 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.00069 (J)
6/12/2019		0.00038 (J)		<0.005		0.00037 (J)	
6/13/2019			<0.005		0.0016 (J)		0.0012 (J)
8/19/2019		0.00095 (J)				0.00059 (J)	
8/20/2019			0.00044 (J)	0.00075 (J)			
8/21/2019					0.00061 (J)		0.00094 (J)
10/8/2019		<0.005					
10/9/2019			<0.005	<0.005			0.0012 (J)
10/10/2019					<0.005	<0.005	
3/17/2020		<0.005	<0.005		0.0016 (J)		
3/18/2020				<0.005		<0.005	0.0008 (J)
8/26/2020		<0.005					
8/27/2020			0.0011 (J)				0.0016 (J)
8/28/2020				<0.005	<0.005	<0.005	
9/22/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
9/23/2020							0.00092 (J)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005	
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)
8/20/2021		<0.005					
2/8/2022		0.0033 (J)	0.0026 (J)		0.0015 (J)	0.0013 (J)	
2/9/2022				<0.005			0.0034 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	<0.005						
2/16/2016	<0.005						
6/1/2016						0.0021	<0.005
6/2/2016		<0.005					
6/6/2016				<0.005	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				0.0016 (J)	
7/27/2016			<0.005	<0.005	<0.005		
9/1/2016	<0.005						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	0.0017 (J)	
1/16/2017							<0.005
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			0.0014 (J)	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						0.0018 (J)	<0.005
5/2/2017			<0.005				
5/10/2017	0.0007 (J)						
6/27/2017						0.0018 (J)	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.001 (J)						
10/18/2017	0.0011 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	0.00061 (J)		
3/29/2018						0.0017 (J)	
6/5/2018						0.0013 (J)	
6/6/2018							<0.005
6/7/2018				0.00066 (J)			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	0.0023 (J)						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				0.0016 (J)	<0.005
2/25/2019	0.00073 (J)						
2/26/2019		<0.005					
2/27/2019						0.0015 (J)	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						0.00072 (J)	<0.005
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.00068 (J)						
8/20/2019	0.00072 (J)						
9/24/2019						0.0014 (J)	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.00056 (J)						
2/10/2020						0.0026 (J)	0.0005 (J)
2/11/2020			0.0022 (J)	0.0014 (J)	0.0026 (J)		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					<0.005
3/19/2020						0.00095 (J)	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0011 (J)						
9/23/2020	<0.005		<0.005	<0.005	<0.005	0.0011 (J)	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	<0.005						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0031 (J)	0.0033 (J)
2/10/2022		0.0016 (J)					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			0.0017 (J)				
12/15/2016			0.0023 (J)				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			0.0018 (J)	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						<0.005	
3/3/2017			0.0016 (J)				
3/6/2017	<0.005	0.0017 (J)					
4/26/2017	<0.005	<0.005		<0.005		<0.005	<0.005
4/28/2017			0.002 (J)				
5/26/2017			0.0005 (J)				
6/28/2017			0.0016 (J)			0.0007 (J)	0.0011 (J)
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					0.0009 (J)		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			0.0013 (J)			<0.005	<0.005
3/29/2018	<0.005	0.0015 (J)					
4/3/2018					<0.005		
6/5/2018		0.0013 (J)					
6/6/2018	<0.005						
6/7/2018			0.00082 (J)			<0.005	
6/8/2018							<0.005
6/11/2018				<0.005			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0022 (J)					
10/1/2018			0.0011 (J)			<0.005	<0.005
10/2/2018				<0.005			
2/26/2019				<0.005			
2/27/2019			0.001 (J)			<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)					
3/29/2019			0.00063 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		0.00096 (J)					
4/3/2019	<0.005						
8/21/2019					0.00058 (J)		
9/24/2019		0.0026 (J)	<0.005				
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					0.00063 (J)		
2/11/2020			0.0044 (J)				0.0041 (J)
2/12/2020	<0.005	0.0025 (J)		0.0032 (J)	0.00058 (J)	0.0038 (J)	
3/19/2020			0.00066 (J)	<0.005		<0.005	<0.005
3/24/2020	<0.005	0.0013 (J)					
3/25/2020					0.0012 (J)		
9/23/2020			0.001 (J)			<0.005	<0.005
9/24/2020	<0.005	0.0014 (J)		<0.005	<0.005		
2/9/2021	<0.005	0.001 (J)					
2/10/2021			<0.005		<0.005	0.00094 (J)	0.00078 (J)
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		0.00098 (J)			<0.005	<0.005
3/4/2021		0.00078 (J)			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					0.0034 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)	0.0037 (J)			0.002 (J)	0.0018 (J)
2/11/2022				0.0014 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	0.00071 (J)	<0.005
7/26/2016			<0.005	0.001 (J)	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				0.0012 (J)	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				0.0019 (J)	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		0.0007 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	0.0006 (J)	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				0.0013 (J)	
6/7/2018			0.00059 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.00072 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	0.0014 (J)	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	<0.005				
9/24/2019				0.00043 (J)	<0.005
9/25/2019			<0.005		
10/8/2019		<0.005			
10/9/2019	<0.005				
2/12/2020	0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020		<0.005			
3/24/2020	<0.005			0.00065 (J)	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.001 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	0.0016 (J)	<0.005
9/3/2021	<0.005				
2/8/2022	0.003 (J)	0.0027 (J)			
2/10/2022				0.004 (J)	0.0016 (J)
2/11/2022			0.0014 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.006						
9/20/1999	0.015						
9/12/2001	0.018						
9/3/2002	0.023						
7/29/2003	0.02						
12/5/2003	0.012						
9/22/2004	0.03						
5/1/2007		0.032					
9/11/2007		0.017					
3/20/2008		0.025					
8/27/2008		0.041					
3/3/2009		0.053					
11/18/2009		0.05					
3/3/2010		0.061					
9/8/2010		0.071					
11/22/2010				0.12		0.03	
1/4/2011				0.1		0.065	
2/17/2011				0.1		0.061	
3/10/2011		0.057					
3/11/2011				0.05		0.066	
3/28/2011				0.087		0.04	
9/7/2011				0.065	0.025	0.041	0.02
9/8/2011		0.057	0.086				
3/4/2012						0.046	
3/5/2012		0.061	0.044		0.014		0.048
3/6/2012				0.049			
9/5/2012			0.034		0.0095		0.07
9/10/2012		0.055				0.084	
9/11/2012				0.045			
2/5/2013			0.03				0.068
2/6/2013		0.061		0.05	0.0094	0.042	
8/12/2013		0.055					
8/13/2013			0.027	0.13	0.13		
8/14/2013						0.042	0.036
2/4/2014			0.037	0.08		0.046	
2/5/2014		0.063			0.066		0.044
8/4/2014					0.043	0.027	0.058
8/5/2014		0.038	0.048	0.068			
2/2/2015			0.069	0.066		0.02	
2/3/2015					0.031		0.033
2/4/2015		0.039					
8/3/2015		0.031			0.039 (D)	0.017 (D)	0.037 (D)
8/4/2015			0.023 (D)	0.053			
2/16/2016		0.045	0.044		0.038	0.032	0.04
2/17/2016				0.059			
8/31/2016		0.0542	0.0711	0.0601	0.0286		
9/1/2016						0.0377	0.0345
11/28/2016		0.0529		0.0562			
11/29/2016			0.0754				
11/30/2016					0.0258	0.0148	
12/1/2016							0.0342
2/22/2017		0.0607		0.0481			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0646		0.0278		
2/24/2017						0.029	0.0347
5/8/2017		0.065					
5/9/2017			0.0463		0.0308		
5/10/2017				0.0563		0.0182	0.0363
7/17/2017		0.06					0.0274
7/18/2017			0.039	0.049	0.0407	0.0187	
10/16/2017		0.0542					0.0151
10/17/2017			0.0349	0.047		0.0157	
10/18/2017					0.049		
2/19/2018		0.0533					
2/20/2018				0.0467		0.0151	
2/21/2018			0.0322		0.0285		0.0174
8/6/2018		0.044					
8/7/2018			0.025		0.029		0.015
8/8/2018				0.049		0.019	
2/25/2019		0.045					
2/26/2019			0.028	0.056	0.026	0.017	0.014
6/12/2019		0.063		0.046		0.017	
6/13/2019			0.033		0.021		0.014
8/19/2019		0.065				0.02	
8/20/2019			0.07	0.05			
8/21/2019					0.02		0.014
10/8/2019		0.058					
10/9/2019			0.054	0.045			0.015
10/10/2019					0.018	0.018	
3/17/2020		0.047	0.031		0.024		
3/18/2020				0.04		0.038	0.015
8/26/2020		0.044					
8/27/2020			0.072				0.013
8/28/2020				0.044	0.014	0.026	
9/22/2020		0.045	0.068	0.04	0.014	0.026	
9/23/2020							0.012
3/1/2021			0.063	0.043		0.035	
3/2/2021		0.039			0.015		0.011
8/18/2021			0.076	0.033	0.014	0.04	0.013
8/20/2021		0.036					
2/8/2022		0.037	0.066		0.013	0.031	
2/9/2022				0.038			0.011

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	0.025						
11/18/2009	0.025						
1/5/2010	0.018						
3/3/2010	0.022						
9/7/2010	0.019						
3/10/2011	0.017						
9/8/2011	0.019						
3/5/2012	0.027						
9/5/2012	0.04						
2/5/2013	0.056						
8/13/2013	0.07						
2/4/2014	0.051						
8/5/2014	0.041						
2/3/2015	0.04						
8/4/2015	0.042						
2/16/2016	0.068						
6/1/2016						0.008	0.012
6/2/2016		0.0081					
6/6/2016				0.028	0.019		
6/7/2016			0.012				
7/25/2016							0.0091 (J)
7/26/2016		0.0082 (J)				0.006 (J)	
7/27/2016			0.0126	0.0294	0.0167		
9/1/2016	0.0536						
9/13/2016						0.0084 (J)	0.008 (J)
9/15/2016		0.0087 (J)					
9/16/2016			0.0127		0.0168		
9/19/2016				0.0247			
11/1/2016						0.0062 (J)	
11/2/2016		0.0082 (J)					
11/3/2016			0.0128	0.0248	0.0159		
11/4/2016							0.0067 (J)
11/29/2016	0.0459						
1/10/2017		0.0086 (J)					
1/11/2017			0.0142	0.0266	0.0162	0.0069 (J)	
1/16/2017							0.0096 (J)
2/23/2017	0.0581						
3/1/2017				0.0275	0.0195		
3/2/2017			0.0155			0.0071 (J)	0.0112
3/8/2017		0.0088 (J)					
4/26/2017		0.0085 (J)		0.024	0.0182		
4/27/2017						0.0064 (J)	0.0106
5/2/2017			0.0138				
5/10/2017	0.0873						
6/27/2017						0.0054 (J)	0.0092 (J)
6/28/2017				0.0237	0.018		
6/29/2017			0.0128				
6/30/2017		0.0081 (J)					
7/18/2017	0.0994						
10/18/2017	0.0757						
2/19/2018	0.0703						
3/27/2018		<0.01					<0.01

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			0.014	0.024	0.021		
3/29/2018						<0.01	
6/5/2018						0.0069 (J)	
6/6/2018							0.0082 (J)
6/7/2018				0.023			
6/8/2018		0.007 (J)					
6/11/2018			0.013		0.019		
8/6/2018	0.076						
9/25/2018			0.014	0.023	0.019		
10/1/2018		0.007 (J)				0.0062 (J)	0.0084 (J)
2/25/2019	0.045						
2/26/2019		0.0067 (J)					
2/27/2019						0.0074 (J)	0.008 (J)
3/5/2019			0.015		0.02		
3/6/2019				0.024			
3/28/2019						0.0082 (J)	0.0082 (J)
3/29/2019		0.0066 (J)					
4/2/2019			0.016				
4/3/2019				0.025	0.017		
6/13/2019	0.062						
8/20/2019	0.06						
9/24/2019						0.0072 (J)	0.0086 (J)
9/25/2019		0.0071 (J)	0.015				
9/26/2019				0.021	0.017		
10/8/2019	0.054						
2/10/2020						0.0066 (J)	0.0091 (J)
2/11/2020			0.015	0.022	0.019		
2/12/2020		0.007 (J)					
3/17/2020	0.031						
3/18/2020		0.0076 (J)					0.0084 (J)
3/19/2020						0.0076 (J)	
3/24/2020			0.015	0.021	0.017		
8/27/2020	0.045						
9/23/2020	0.044		0.015	0.021	0.016	0.0068 (J)	0.0079 (J)
9/25/2020		0.0073 (J)					
2/9/2021				0.023	0.017		
2/10/2021		0.0078 (J)					
2/12/2021						0.0057 (J)	0.009 (J)
3/2/2021		0.0076					
3/3/2021	0.043		0.017	0.023	0.017	0.0068	0.0094
8/18/2021	0.035						
8/19/2021		0.0077				0.0065	0.0079
8/26/2021					0.015		
8/27/2021			0.016	0.02			
2/8/2022	0.03						
2/9/2022			0.017	0.021	0.014	0.0067	0.0088
2/10/2022		0.0088					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							0.0038
6/2/2016				0.0064		0.01	
6/7/2016	0.014	0.0058					
7/25/2016				0.0071 (J)			0.0031 (J)
7/26/2016						0.0088 (J)	
7/27/2016	0.0141						
7/28/2016		0.0068 (J)					
9/14/2016			0.0037 (J)				0.0027 (J)
9/15/2016						0.009 (J)	
9/19/2016	0.0155	0.0071 (J)		0.0069 (J)			
11/1/2016				0.007 (J)		0.0079 (J)	0.0027 (J)
11/2/2016	0.0157						
11/3/2016		0.0092 (J)					
11/4/2016			0.0059 (J)				
12/15/2016			0.0056 (J)				
1/11/2017						0.0075 (J)	0.0036 (J)
1/13/2017	0.0158	0.0105					
1/16/2017			0.0049 (J)	0.0071 (J)			
2/21/2017				0.0077 (J)			
3/1/2017							0.0036 (J)
3/2/2017						0.009 (J)	
3/3/2017			0.0046 (J)				
3/6/2017	0.0163	0.0105					
4/26/2017	0.0177	0.011		0.0074 (J)		0.0078 (J)	0.0038 (J)
4/28/2017			0.0039 (J)				
5/26/2017			0.0034 (J)				
6/28/2017			0.003 (J)			0.0071 (J)	0.004 (J)
6/29/2017	0.017	0.0109					
6/30/2017				0.0076 (J)			
10/11/2017					0.0092 (J)		
11/20/2017					0.0081 (J)		
1/11/2018					0.0077 (J)		
2/20/2018					<0.01		
3/27/2018				<0.01			
3/28/2018			<0.01			<0.01	<0.01
3/29/2018	0.014	<0.01					
4/3/2018					<0.01		
6/5/2018		0.011					
6/6/2018	0.015						
6/7/2018			0.0037 (J)			0.0068 (J)	
6/8/2018							0.0034 (J)
6/11/2018				0.007 (J)			
6/28/2018					0.0078 (J)		
8/7/2018					0.0078 (J)		
9/24/2018					0.0071 (J)		
9/25/2018	0.015	0.011					
10/1/2018			0.0038 (J)			0.0065 (J)	0.0034 (J)
10/2/2018				0.0069 (J)			
2/26/2019				0.007 (J)			
2/27/2019			0.0035 (J)			0.0059 (J)	0.0034 (J)
3/5/2019	0.016	0.011					
3/29/2019			0.0039 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.0072 (J)		0.0064 (J)	0.003 (J)
4/2/2019		0.011					
4/3/2019	0.018						
8/21/2019					0.015		
9/24/2019		0.011	0.0038 (J)				
9/25/2019	0.014			0.0066 (J)		0.0059 (J)	0.005 (J)
10/9/2019					0.013		
2/11/2020			0.0036 (J)				0.0031 (J)
2/12/2020	0.014	0.011		0.0073 (J)	0.011	0.0062 (J)	
3/19/2020			0.0036 (J)	0.0074 (J)		0.0072 (J)	0.0029 (J)
3/24/2020	0.015	0.011					
3/25/2020					0.014		
9/23/2020			0.0039 (J)			0.0051 (J)	0.0039 (J)
9/24/2020	0.015	0.01		0.0062 (J)	0.016		
2/9/2021	0.015	0.011					
2/10/2021			0.0032 (J)		0.027	0.0059 (J)	0.0029 (J)
2/11/2021				0.0077 (J)			
3/1/2021				0.007			
3/3/2021	0.015		0.0041 (J)			0.0064	0.0031 (J)
3/4/2021		0.011			0.028		
8/19/2021				0.0071		0.0052	
8/26/2021					0.038		
8/27/2021	0.013		0.003 (J)				0.0039 (J)
9/1/2021		0.0099					
2/8/2022					0.041		
2/9/2022	0.014	0.011	0.0029 (J)			0.0051	0.0031 (J)
2/11/2022				0.0077			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.013	0.0084	0.019
7/26/2016			0.0158	0.01	0.0179
8/30/2016		0.0413			
9/14/2016			0.0143	0.0085 (J)	0.0181
11/2/2016			0.0148	0.0091 (J)	
11/4/2016					0.0165
11/14/2016		0.0383			
1/12/2017				0.0089 (J)	0.0199
1/13/2017			0.0146		
2/24/2017		0.0351			
3/6/2017			0.0141		
3/7/2017				0.009 (J)	0.0196
5/1/2017			0.0149	0.0083 (J)	
5/2/2017					0.0202
5/8/2017		0.0251			
6/27/2017				0.0074 (J)	0.0184
6/29/2017			0.0154		
7/11/2017		0.0233			
10/10/2017		0.0207			
10/12/2017	0.0328				
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				
3/29/2018			0.014	<0.01	0.021
4/2/2018		0.022			
4/3/2018	0.045				
6/6/2018				0.008 (J)	
6/7/2018			0.014		0.019
6/28/2018	0.047				
8/7/2018	0.048				
9/19/2018		0.023			
9/24/2018	0.042				
9/26/2018			0.02	0.0075 (J)	0.019
3/4/2019			0.016	0.0077 (J)	0.019
4/3/2019			0.017	0.0087 (J)	0.023
8/20/2019		0.024			
8/21/2019	0.035				
9/24/2019				0.0075 (J)	0.019
9/25/2019			0.015		
10/8/2019		0.025			
10/9/2019	0.036				
2/12/2020	0.035		0.012	0.0079 (J)	0.021
3/17/2020		0.035			
3/24/2020	0.033			0.0076 (J)	0.021
3/25/2020			0.016		
8/27/2020		0.027			
9/22/2020		0.026	0.013	0.0076 (J)	0.019
9/24/2020	0.028				
2/8/2021				0.0079 (J)	0.02
2/9/2021			0.013		
2/10/2021	0.032				
3/1/2021		0.029			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				0.014	0.019
3/3/2021			0.014		
3/4/2021	0.032				
8/19/2021		0.029			
8/26/2021			0.012	0.0092	0.019
9/3/2021	0.035				
2/8/2022	0.039	0.03			
2/10/2022				0.0084	0.02
2/11/2022			0.013		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.0005						
9/20/1999	<0.0005						
9/12/2001	<0.0005						
9/3/2002	<0.0005						
7/29/2003	<0.0005						
12/5/2003	<0.0005						
9/22/2004	<0.0005						
5/1/2007		<0.0005					
9/11/2007		<0.0005					
3/20/2008		<0.0005					
8/27/2008		<0.0005					
3/3/2009		<0.0005					
11/18/2009		<0.0005					
3/3/2010		<0.0005					
9/8/2010		<0.0005					
11/22/2010				<0.0005		<0.0005	
1/4/2011				<0.0005		<0.0005	
2/17/2011				<0.0005		<0.0005	
3/10/2011		<0.0005					
3/11/2011				<0.0005		<0.0005	
3/28/2011				<0.0005		<0.0005	
9/7/2011				<0.0005	<0.0005	<0.0005	<0.0005
9/8/2011		<0.0005	<0.0005				
3/4/2012						<0.0005	
3/5/2012		<0.0005	<0.0005		<0.0005		<0.0005
3/6/2012				<0.0005			
9/5/2012			<0.0005		<0.0005		<0.0005
9/10/2012		<0.0005				<0.0005	
9/11/2012				<0.0005			
2/5/2013			<0.0005				<0.0005
2/6/2013		<0.0005		<0.0005	<0.0005	<0.0005	
8/12/2013		<0.0005					
8/13/2013			<0.0005	<0.0005	<0.0005		
8/14/2013						<0.0005	<0.0005
2/4/2014			<0.0005	<0.0005		<0.0005	
2/5/2014		<0.0005			<0.0005		<0.0005
8/4/2014					0.0011 (J)	<0.0005	0.00026 (J)
8/5/2014		<0.0005	7.5E-05 (J)	<0.0005			
2/2/2015			0.00023 (J)	<0.0005		<0.0005	
2/3/2015					0.00061 (J)		0.00023 (J)
2/4/2015		<0.0005					
8/3/2015		<0.0005			0.00051 (JD)	<0.0005 (D)	0.00046 (JD)
8/4/2015			<0.0005 (D)	<0.0005			
2/16/2016		<0.0005	<0.0005		0.00084 (J)	<0.0005	0.00048 (J)
2/17/2016				<0.0005			
8/31/2016		<0.0005	0.0001 (J)	<0.0005	0.0003 (J)		
9/1/2016						<0.0005	0.0005 (J)
11/28/2016		<0.0005		<0.0005			
11/29/2016			<0.0005				
11/30/2016					0.0004 (J)	<0.0005	
12/1/2016							0.0003 (J)
2/22/2017		<0.0005		<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.0005		0.0003 (J)		
2/24/2017						<0.0005	0.0002 (J)
5/8/2017		<0.0005					
5/9/2017			8E-05 (J)		0.0002 (J)		
5/10/2017				<0.0005		<0.0005	0.0003 (J)
7/17/2017		<0.0005					0.0004 (J)
7/18/2017			<0.0005	<0.0005	0.0002 (J)	<0.0005	
10/16/2017		<0.0005					0.0006 (J)
10/17/2017			0.0001 (J)	<0.0005		<0.0005	
10/18/2017					0.0004 (J)		
2/19/2018		<0.0005					
2/20/2018				<0.0005		<0.0005	
2/21/2018			<0.0005		<0.0005		<0.0005
8/6/2018		<0.0005					
8/7/2018			7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018				7E-05 (J)		<0.0005	
2/25/2019		<0.0005					
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.0005	0.0015 (J)
6/12/2019		<0.0005		<0.0005		<0.0005	
6/13/2019			<0.0005		0.00051 (J)		0.0015 (J)
8/19/2019		<0.0005				<0.0005	
8/20/2019			0.0001 (J)	0.00017 (J)			
8/21/2019					0.00046 (J)		0.0028 (J)
10/8/2019		<0.0005					
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019					0.00039 (J)	<0.0005	
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)		
3/18/2020				0.00012 (J)		<0.0005	0.0028 (J)
8/26/2020		<0.0005					
8/27/2020			0.00024 (J)				0.0023 (J)
8/28/2020				0.0002 (J)	0.0005 (J)	<0.0005	
9/22/2020		<0.0005	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020							0.0023 (J)
3/1/2021			0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021		<0.0005			0.00081		0.0037
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
8/20/2021		<0.0005					
2/8/2022		<0.0005	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022				0.00023 (J)			0.0036

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.0005						
11/18/2009	<0.0005						
1/5/2010	<0.0005						
3/3/2010	<0.0005						
9/7/2010	<0.0005						
3/10/2011	<0.0005						
9/8/2011	<0.0005						
3/5/2012	<0.0005						
9/5/2012	<0.0005						
2/5/2013	<0.0005						
8/13/2013	<0.0005						
2/4/2014	<0.0005						
8/5/2014	<0.0005						
2/3/2015	<0.0005						
8/4/2015	<0.0005						
2/16/2016	<0.0005						
6/1/2016						<0.0005	<0.0005
6/2/2016		<0.0005					
6/6/2016				<0.0005	<0.0005		
6/7/2016			<0.0005				
7/25/2016							<0.0005
7/26/2016		0.0002 (J)				<0.0005	
7/27/2016			<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005						
9/13/2016						<0.0005	<0.0005
9/15/2016		0.0002 (J)					
9/16/2016			<0.0005		<0.0005		
9/19/2016				<0.0005			
11/1/2016						<0.0005	
11/2/2016		0.0002 (J)					
11/3/2016			<0.0005	<0.0005	<0.0005		
11/4/2016							<0.0005
11/29/2016	<0.0005						
1/10/2017		0.0002 (J)					
1/11/2017			<0.0005	<0.0005	<0.0005	<0.0005	
1/16/2017							<0.0005
2/23/2017	<0.0005						
3/1/2017				<0.0005	<0.0005		
3/2/2017			8E-05 (J)			<0.0005	<0.0005
3/8/2017		0.0002 (J)					
4/26/2017		0.0002 (J)		<0.0005	<0.0005		
4/27/2017						<0.0005	<0.0005
5/2/2017			<0.0005				
5/10/2017	<0.0005						
6/27/2017						<0.0005	<0.0005
6/28/2017				<0.0005	<0.0005		
6/29/2017			<0.0005				
6/30/2017		0.0002 (J)					
7/18/2017	<0.0005						
10/18/2017	<0.0005						
2/19/2018	<0.0005						
3/27/2018		<0.0005					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.0005	<0.0005	<0.0005		
3/29/2018						<0.0005	
6/7/2018				<0.0005			
6/11/2018			9E-05 (J)		5.7E-05 (J)		
8/6/2018	<0.0005						
9/25/2018			8.9E-05 (J)	<0.0005	8.2E-05 (J)		
2/25/2019	<0.0005						
2/26/2019		0.00016 (J)					
2/27/2019						<0.0005	<0.0005
3/5/2019			9.1E-05 (J)		7.9E-05 (J)		
3/6/2019				<0.0005			
3/28/2019						<0.0005	<0.0005
3/29/2019		0.00017 (J)					
4/2/2019			9E-05 (J)				
4/3/2019				<0.0005	7.5E-05 (J)		
6/13/2019	<0.0005						
8/20/2019	<0.0005						
9/24/2019						<0.0005	<0.0005
9/25/2019		0.00018 (J)	8.1E-05 (J)				
9/26/2019				<0.0005	8.4E-05 (J)		
10/8/2019	<0.0005						
2/10/2020						<0.0005	<0.0005
2/11/2020			7.8E-05 (J)	<0.0005	7.6E-05 (J)		
2/12/2020		0.00019 (J)					
3/17/2020	<0.0005						
3/18/2020		0.00021 (J)					<0.0005
3/19/2020						<0.0005	
3/24/2020			8E-05 (J)	<0.0005	8.9E-05 (J)		
8/27/2020	<0.0005						
9/23/2020	<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0005
9/25/2020		0.00018 (J)					
2/9/2021				<0.0005	9.8E-05 (J)		
2/10/2021		0.00019 (J)					
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00018 (J)					
3/3/2021	<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0005
8/18/2021	<0.0005						
8/19/2021		0.00022 (J)				<0.0005	<0.0005
8/26/2021					9.3E-05 (J)		
8/27/2021			0.0001 (J)	<0.0005			
2/8/2022	<0.0005						
2/9/2022			0.00011 (J)	<0.0005	8.9E-05 (J)	<0.0005	<0.0005
2/10/2022		0.00025 (J)					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.0005
6/2/2016				<0.0005		<0.0005	
6/7/2016	<0.0005	<0.0005					
7/25/2016				<0.0005			<0.0005
7/26/2016						<0.0005	
7/27/2016	<0.0005						
7/28/2016		<0.0005					
9/14/2016			<0.0005				<0.0005
9/15/2016						<0.0005	
9/19/2016	<0.0005	<0.0005		<0.0005			
11/1/2016				<0.0005		<0.0005	<0.0005
11/2/2016	<0.0005						
11/3/2016		<0.0005					
11/4/2016			<0.0005				
12/15/2016			<0.0005				
1/11/2017						<0.0005	<0.0005
1/13/2017	<0.0005	<0.0005					
1/16/2017			<0.0005	<0.0005			
2/21/2017				<0.0005			
3/1/2017							<0.0005
3/2/2017						<0.0005	
3/3/2017			<0.0005				
3/6/2017	<0.0005	<0.0005					
4/26/2017	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005
4/28/2017			<0.0005				
5/26/2017			<0.0005				
6/28/2017			<0.0005			<0.0005	<0.0005
6/29/2017	<0.0005	<0.0005					
6/30/2017				<0.0005			
10/11/2017					<0.0005		
11/20/2017					<0.0005		
1/11/2018					<0.0005		
2/20/2018					<0.0005		
3/27/2018				<0.0005			
3/28/2018			<0.0005			<0.0005	<0.0005
3/29/2018	<0.0005	<0.0005					
4/3/2018					<0.0005		
6/5/2018		<0.0005					
6/6/2018	8E-05 (J)						
6/28/2018					<0.0005		
8/7/2018					<0.0005		
9/24/2018					<0.0005		
9/25/2018	6.1E-05 (J)	<0.0005					
2/26/2019				7.2E-05 (J)			
2/27/2019			<0.0005			<0.0005	<0.0005
3/5/2019	0.00011 (J)	<0.0005					
3/29/2019			<0.0005				
4/1/2019				<0.0005		<0.0005	<0.0005
4/2/2019		<0.0005					
4/3/2019	6.4E-05 (J)						
8/21/2019					<0.0005		
9/24/2019		<0.0005	<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.0005			<0.0005		<0.0005	<0.0005
10/9/2019					<0.0005		
2/11/2020			<0.0005				<0.0005
2/12/2020	7.8E-05 (J)	<0.0005		<0.0005	<0.0005	<0.0005	
3/19/2020			<0.0005	<0.0005		<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005					
3/25/2020					<0.0005		
9/23/2020			<0.0005			<0.0005	5.9E-05 (J)
9/24/2020	8.3E-05 (J)	<0.0005		<0.0005	<0.0005		
2/9/2021	6.8E-05 (J)	<0.0005					
2/10/2021			<0.0005		5.1E-05 (J)	<0.0005	<0.0005
2/11/2021				4.7E-05 (J)			
3/1/2021				<0.0005			
3/3/2021	6.8E-05 (J)		<0.0005			<0.0005	<0.0005
3/4/2021		<0.0005			<0.0005		
8/19/2021				<0.0005		<0.0005	
8/26/2021					<0.0005		
8/27/2021	5.9E-05 (J)		<0.0005				<0.0005
9/1/2021		<0.0005					
2/8/2022					<0.0005		
2/9/2022	7.7E-05 (J)	<0.0005	<0.0005			<0.0005	<0.0005
2/11/2022				<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.0005	<0.0005	<0.0005
7/26/2016			<0.0005	<0.0005	<0.0005
8/30/2016		<0.0005			
9/14/2016			<0.0005	<0.0005	<0.0005
11/2/2016			<0.0005	<0.0005	
11/4/2016					<0.0005
11/14/2016		<0.0005			
1/12/2017				<0.0005	<0.0005
1/13/2017			<0.0005		
2/24/2017		<0.0005			
3/6/2017			<0.0005		
3/7/2017				<0.0005	<0.0005
5/1/2017			<0.0005	<0.0005	
5/2/2017					<0.0005
5/8/2017		7E-05 (J)			
6/27/2017				<0.0005	<0.0005
6/29/2017			<0.0005		
7/11/2017		<0.0005			
10/10/2017		<0.0005			
10/12/2017	0.0002 (J)				
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.0005				
3/29/2018			<0.0005	<0.0005	<0.0005
4/2/2018		<0.0005			
4/3/2018	<0.0005				
6/6/2018				<0.0005	
6/7/2018			<0.0005		<0.0005
6/28/2018	0.00029 (J)				
8/7/2018	0.00024 (J)				
9/19/2018		5.7E-05 (J)			
9/24/2018	0.00019 (J)				
9/26/2018			<0.0005	<0.0005	<0.0005
3/4/2019			<0.0005	<0.0005	<0.0005
4/3/2019			<0.0005	<0.0005	<0.0005
8/20/2019		<0.0005			
8/21/2019	0.0002 (J)				
9/24/2019				<0.0005	<0.0005
9/25/2019			<0.0005		
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)		<0.0005	<0.0005	<0.0005
3/24/2020	0.00022 (J)			<0.0005	<0.0005
3/25/2020			<0.0005		
8/27/2020		4.7E-05 (J)			
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021				<0.0005	<0.0005
2/9/2021			<0.0005		
2/10/2021	0.00021 (J)				
3/1/2021		5.5E-05 (J)			
3/2/2021				<0.0005	<0.0005
3/3/2021			<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/4/2021	0.00021 (J)				
8/19/2021		<0.0005			
8/26/2021			<0.0005	<0.0005	<0.0005
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)	5.6E-05 (J)			
2/10/2022				<0.0005	<0.0005
2/11/2022			<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)			
9/1/2016					3.25	0.0191 (J)	0.0108 (J)
11/28/2016	0.0095 (J)		0.0206 (J)				
11/29/2016		0.0149 (J)					<0.04
11/30/2016				0.0089 (J)	0.813		
12/1/2016						0.0088 (J)	
2/22/2017	<0.04		0.0192 (J)				
2/23/2017		0.0082 (J)		<0.04			<0.04
2/24/2017					2.53	0.0067 (J)	
5/8/2017	0.0084 (J)						
5/9/2017		0.0097 (J)		0.0077 (J)			
5/10/2017			0.0179 (J)		1.22	0.0068 (J)	<0.04
7/17/2017	0.0092 (J)					0.0102 (J)	
7/18/2017		0.0123 (J)	0.0169 (J)	0.0073 (J)	0.97		0.0061 (J)
10/16/2017	<0.04					0.0066 (J)	
10/17/2017		0.0513	0.0168 (J)		0.804		
10/18/2017				<0.04			<0.04
2/19/2018	<0.04						<0.04
2/20/2018			<0.04		1.01		
2/21/2018		0.0378 (J)		0.0399 (J)		0.0268 (J)	
8/6/2018	<0.04						<0.04
8/7/2018		0.043		0.0049 (J)		0.012 (J)	
8/8/2018			0.017 (J)		1.3		
2/25/2019	<0.04						<0.04
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)	
6/12/2019	<0.04		0.013 (J)		1.5		
6/13/2019		0.057		<0.04		0.03 (J)	<0.04
10/8/2019	<0.04						<0.04
10/9/2019		0.029 (J)	0.018 (J)			0.013 (J)	
10/10/2019				0.0061 (J)	0.78		
3/17/2020	0.0051 (J)	0.092 (J)		0.0099 (J)			<0.04
3/18/2020			0.026 (J)		5.4	0.034 (J)	
9/22/2020	0.0079 (J)	0.025 (J)	0.046 (J)	0.0066 (J)	1		
9/23/2020						0.028 (J)	0.0055 (J)
3/1/2021		0.046	0.087		5.1		
3/2/2021	<0.04			0.0071 (J)		0.023 (J)	
3/3/2021							<0.04
8/18/2021		0.029 (J)	0.14	<0.04	4.5	0.021 (J)	<0.04
8/20/2021	<0.04						
2/8/2022	<0.04	0.021 (J)		<0.04	5.3		<0.04
2/9/2022			0.23			0.043	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.04	<0.04	
6/2/2016	<0.04						
6/6/2016			<0.04	<0.04			
6/7/2016		<0.04					<0.04
7/25/2016						<0.04	
7/26/2016	0.0177 (J)				0.0055 (J)		
7/27/2016		0.008 (J)	<0.04	0.0059 (J)			<0.04
9/13/2016					<0.04	<0.04	
9/15/2016	0.0214 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04				<0.04
11/1/2016					0.0086 (J)		
11/2/2016	<0.04						<0.04
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)			
11/4/2016						<0.04	
1/10/2017	0.0198 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)	0.0074 (J)		
1/13/2017							<0.04
1/16/2017						<0.04	
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)			0.008 (J)	<0.04	
3/6/2017							<0.04
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)		<0.04	0.0091 (J)			<0.04
4/27/2017					0.0066 (J)	<0.04	
5/2/2017		<0.04					
6/27/2017					0.0087 (J)	0.006 (J)	
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)					<0.04
6/30/2017	0.0173 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	
10/4/2017		0.0077 (J)		0.009 (J)			<0.04
10/5/2017	0.0173 (J)		<0.04				
6/5/2018					0.0052 (J)		
6/6/2018						<0.04	0.0049 (J)
6/7/2018			<0.04				
6/8/2018	0.013 (J)						
6/11/2018		0.01 (J)		0.0093 (J)			
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)			<0.04
10/1/2018	0.015 (J)				0.021 (J)	0.0049 (J)	
3/28/2019					0.005 (J)	<0.04	
3/29/2019	0.014 (J)						
4/2/2019		0.0066 (J)					
4/3/2019			<0.04	0.0053 (J)			<0.04
9/24/2019					0.0064 (J)	0.0055 (J)	
9/25/2019	0.018 (J)	0.0081 (J)					<0.04
9/26/2019			0.0062 (J)	0.0072 (J)			
3/18/2020	0.02 (J)					0.0087 (J)	
3/19/2020					0.0085 (J)		
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)			<0.04
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)	<0.04	<0.04	
9/24/2020							0.0094 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	0.02 (J)						
3/2/2021	0.017 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04	<0.04	<0.04
8/19/2021	0.018 (J)				<0.04	<0.04	
8/26/2021				<0.04			
8/27/2021		0.011 (J)	<0.04				<0.04
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
2/10/2022	0.02 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.04	
6/2/2016			<0.04		<0.04		
6/7/2016	<0.04						
7/25/2016			<0.04			<0.04	
7/26/2016					0.0097 (J)		
7/28/2016	<0.04						
9/14/2016		<0.04				<0.04	
9/15/2016					0.0102 (J)		
9/19/2016	<0.04		<0.04				
11/1/2016			<0.04		<0.04	<0.04	
11/3/2016	<0.04						
11/4/2016		<0.04					
12/15/2016		0.0107 (J)					
1/11/2017					<0.04	<0.04	
1/13/2017	<0.04						
1/16/2017		<0.04	<0.04				
2/21/2017			<0.04				
3/1/2017						<0.04	
3/2/2017					0.0084 (J)		
3/3/2017		<0.04					
3/6/2017	<0.04						
4/26/2017	<0.04		<0.04		<0.04	<0.04	
4/28/2017		<0.04					
5/26/2017		<0.04					
6/28/2017		<0.04			<0.04	<0.04	
6/29/2017	<0.04						
6/30/2017			<0.04				
10/3/2017	<0.04	<0.04					
10/4/2017			<0.04		<0.04	<0.04	
10/11/2017				0.0135 (J)			
10/12/2017							0.0401
11/20/2017				0.0251 (J)			0.156
1/10/2018							0.15
1/11/2018				0.0255 (J)			
2/19/2018							0.146
2/20/2018				<0.04			
4/3/2018				0.033 (J)			0.12
6/5/2018	0.0092 (J)						
6/7/2018		<0.04			0.004 (J)		
6/8/2018						<0.04	
6/11/2018			0.014 (J)				
6/28/2018				0.053			0.16
8/7/2018				0.024 (J)			0.12
9/24/2018				0.028 (J)			0.099
9/25/2018	0.0054 (J)						
10/1/2018		<0.04			<0.04	<0.04	
10/2/2018			<0.04				
3/26/2019							0.096
3/27/2019				0.017 (J)			
3/29/2019		0.0065 (J)					
4/1/2019			<0.04		<0.04	<0.04	
4/2/2019	0.011 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	0.018 (J)	0.0076 (J)					
9/25/2019			<0.04		0.0054 (J)	<0.04	
10/9/2019				0.017 (J)			0.079
3/19/2020		0.0073 (J)	0.0052 (J)		0.0073 (J)	0.0053 (J)	
3/24/2020	0.016 (J)						0.088 (J)
3/25/2020				0.043 (J)			
9/23/2020		<0.04			0.012 (J)	0.0073 (J)	
9/24/2020	0.013 (J)		0.0075 (J)	0.037 (J)			0.087 (J)
3/1/2021			<0.04				
3/3/2021		<0.04			<0.04	<0.04	
3/4/2021	0.0079 (J)			0.033 (J)			0.078
8/19/2021			<0.04		<0.04		
8/26/2021				0.095			
8/27/2021		<0.04				<0.04	
9/1/2021	<0.04						
9/3/2021							0.077
2/8/2022				0.13			0.074
2/9/2022	<0.04	<0.04			0.01 (J)	<0.04	
2/11/2022			<0.04				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.04	<0.04	<0.04
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04
8/30/2016	0.0166 (J)			
9/14/2016		<0.04	0.0071 (J)	0.01 (J)
11/2/2016		<0.04	<0.04	
11/4/2016				<0.04
11/14/2016	0.0166 (J)			
1/12/2017			0.0076 (J)	<0.04
1/13/2017		<0.04		
2/24/2017	0.0145 (J)			
3/6/2017		<0.04		
3/7/2017			0.0089 (J)	<0.04
5/1/2017		<0.04	0.0061 (J)	
5/2/2017				<0.04
5/8/2017	0.0141 (J)			
6/27/2017			0.0079 (J)	<0.04
6/29/2017		<0.04		
7/11/2017	0.0131 (J)			
10/3/2017			0.0094 (J)	<0.04
10/5/2017		<0.04		
10/10/2017	0.0124 (J)			
4/2/2018	0.013 (J)			
6/6/2018			0.0098 (J)	
6/7/2018		0.0045 (J)		<0.04
9/19/2018	0.012 (J)			
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)
3/27/2019	0.013 (J)			
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019			0.01 (J)	0.0049 (J)
9/25/2019		<0.04		
10/8/2019	0.012 (J)			
3/17/2020	0.023 (J)			
3/24/2020			0.011 (J)	0.0068 (J)
3/25/2020		0.011 (J)		
9/22/2020	0.0076 (J)	<0.04	0.0079 (J)	0.0053 (J)
3/1/2021	0.013 (J)			
3/2/2021			0.0068 (J)	0.011 (J)
3/3/2021		0.0056 (J)		
8/19/2021	0.011 (J)			
8/26/2021		<0.04	0.009 (J)	<0.04
2/8/2022	0.015 (J)			
2/10/2022			0.011 (J)	<0.04
2/11/2022		<0.04		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.0005						
9/11/2007	<0.0005						
3/20/2008	<0.0005						
8/27/2008	<0.0005						
3/3/2009	<0.0005						
9/9/2009							<0.0005
11/18/2009	<0.0005						<0.0005
1/5/2010							<0.0005
3/3/2010	<0.0005						<0.0005
9/7/2010							<0.0005
9/8/2010	<0.0005						
11/22/2010			<0.0005		<0.0005		
1/4/2011			<0.0005		<0.0005		
2/17/2011			<0.0005		<0.0005		
3/10/2011	<0.0005						<0.0005
3/11/2011			<0.0005		<0.0005		
3/28/2011			<0.0005		<0.0005		
9/7/2011			<0.0005	<0.0005	<0.0005	<0.0005	
9/8/2011	<0.0005	<0.0005					<0.0005
3/4/2012					<0.0005		
3/5/2012	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005
3/6/2012			<0.0005				
9/5/2012		<0.0005		<0.0005		<0.0005	<0.0005
9/10/2012	<0.0005				<0.0005		
9/11/2012			<0.0005				
2/5/2013		<0.0005				<0.0005	<0.0005
2/6/2013	<0.0005		<0.0005	<0.0005	<0.0005		
8/12/2013	<0.0005						
8/13/2013		<0.0005	<0.0005	<0.0005			<0.0005
8/14/2013					<0.0005	<0.0005	
2/4/2014		<0.0005	<0.0005		<0.0005		<0.0005
2/5/2014	<0.0005			<0.0005		<0.0005	
8/4/2014				0.00034 (J)	<0.0005	0.00045 (J)	
8/5/2014	<0.0005	<0.0005	<0.0005				<0.0005
2/2/2015		<0.0005	<0.0005		<0.0005		
2/3/2015				<0.0005		<0.0005	<0.0005
2/4/2015	<0.0005						
8/3/2015	<0.0005			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)	
8/4/2015		<0.0005 (D)	<0.0005				<0.0005
2/16/2016	<0.0005	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)	<0.0005
2/17/2016			<0.0005				
8/31/2016	<0.0005	<0.0005	0.0001 (J)	<0.0005			
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005
11/28/2016	<0.0005		0.0001 (J)				
11/29/2016		8E-05 (J)					<0.0005
11/30/2016				<0.0005	<0.0005		
12/1/2016						0.0004 (J)	
2/22/2017	<0.0005		<0.0005				
2/23/2017		<0.0005		<0.0005			<0.0005
2/24/2017					<0.0005	0.0003 (J)	
5/8/2017	<0.0005						
5/9/2017		<0.0005		<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0005		<0.0005	0.0003 (J)	<0.0005
7/17/2017	<0.0005					0.0004 (J)	
7/18/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/16/2017	<0.0005					0.0006 (J)	
10/17/2017		<0.0005	<0.0005		<0.0005		
10/18/2017				<0.0005			<0.0005
2/19/2018	<0.0005						<0.0005
2/20/2018			<0.0005		<0.0005		
2/21/2018		<0.0005		<0.0005		<0.0005	
8/6/2018	<0.0005						<0.0005
8/7/2018		<0.0005		<0.0005		0.00083 (J)	
8/8/2018			<0.0005		<0.0005		
2/25/2019	<0.0005						<0.0005
2/26/2019		<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)	
6/12/2019	<0.0005		<0.0005		<0.0005		
6/13/2019		<0.0005		0.00021 (J)		0.00073 (J)	<0.0005
8/19/2019	<0.0005				<0.0005		
8/20/2019		<0.0005	<0.0005				<0.0005
8/21/2019				<0.0005		0.0012 (J)	
10/8/2019	<0.0005						<0.0005
10/9/2019		<0.0005	<0.0005			0.0011 (J)	
10/10/2019				0.00018 (J)	<0.0005		
3/17/2020	<0.0005	<0.0005		0.00037 (J)			<0.0005
3/18/2020			<0.0005		<0.0005	0.0012 (J)	
8/26/2020	<0.0005						
8/27/2020		0.00012 (J)				0.00091 (J)	<0.0005
8/28/2020			0.00015 (J)	0.00014 (J)	<0.0005		
9/22/2020	<0.0005	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005		
9/23/2020						0.00094 (J)	<0.0005
3/1/2021		0.00013 (J)	0.00016 (J)		<0.0005		
3/2/2021	<0.0005			0.00021 (J)		0.0011	
3/3/2021							<0.0005
8/18/2021		0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001	<0.0005
8/20/2021	<0.0005						
2/8/2022	<0.0005	0.00019 (J)		0.00018 (J)	<0.0005		<0.0005
2/9/2022			<0.0005			0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.0005	<0.0005	
6/2/2016	<0.0005						
6/6/2016			<0.0005	<0.0005			
6/7/2016		<0.0005					<0.0005
7/25/2016						<0.0005	
7/26/2016	<0.0005				<0.0005		
7/27/2016		<0.0005	<0.0005	<0.0005			<0.0005
9/13/2016					<0.0005	<0.0005	
9/15/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005				<0.0005
11/1/2016					<0.0005		
11/2/2016	<0.0005						<0.0005
11/3/2016		<0.0005	<0.0005	<0.0005			
11/4/2016						<0.0005	
1/10/2017	<0.0005						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)	0.0002 (J)		
1/13/2017							<0.0005
1/16/2017						<0.0005	
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005			<0.0005	<0.0005	
3/6/2017							<0.0005
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005		<0.0005	<0.0005			<0.0005
4/27/2017					<0.0005	<0.0005	
5/2/2017		<0.0005					
6/27/2017					<0.0005	<0.0005	
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005					<0.0005
6/30/2017	<0.0005						
3/27/2018	<0.0005					<0.0005	
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005		<0.0005
6/6/2018							<0.0005
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
9/25/2018		<0.0005	<0.0005	<0.0005			<0.0005
2/26/2019	<0.0005						
2/27/2019					<0.0005	<0.0005	
3/5/2019		<0.0005		<0.0005			<0.0005
3/6/2019			<0.0005				
3/28/2019					<0.0005	<0.0005	
3/29/2019	<0.0005						
4/2/2019		<0.0005					
4/3/2019			<0.0005	<0.0005			<0.0005
9/24/2019					<0.0005	<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<0.0005			
2/10/2020					<0.0005	<0.0005	
2/11/2020		<0.0005	<0.0005	<0.0005			
2/12/2020	<0.0005						<0.0005
3/18/2020	<0.0005					<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
3/19/2020					<0.0005		
3/24/2020		<0.0005	<0.0005	<0.0005			<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020							<0.0005
9/25/2020	<0.0005						
2/9/2021			<0.0005	<0.0005			<0.0005
2/10/2021	<0.0005						
2/12/2021					<0.0005	<0.0005	
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005				<0.0005	<0.0005	
8/26/2021				<0.0005			
8/27/2021		<0.0005	<0.0005				<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0005	
6/2/2016			<0.0005		<0.0005		
6/7/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016					<0.0005		
7/28/2016	<0.0005						
9/14/2016		<0.0005				<0.0005	
9/15/2016					<0.0005		
9/19/2016	<0.0005		<0.0005				
11/1/2016			<0.0005		<0.0005	<0.0005	
11/3/2016	<0.0005						
11/4/2016		<0.0005					
12/15/2016		<0.0005					
1/11/2017					0.0001 (J)	8E-05 (J)	
1/13/2017	<0.0005						
1/16/2017		<0.0005	<0.0005				
2/21/2017			<0.0005				
3/1/2017						<0.0005	
3/2/2017					<0.0005		
3/3/2017		<0.0005					
3/6/2017	<0.0005						
4/26/2017	<0.0005		<0.0005		<0.0005	<0.0005	
4/28/2017		<0.0005					
5/26/2017		<0.0005					
6/28/2017		<0.0005			<0.0005	<0.0005	
6/29/2017	<0.0005						
6/30/2017			<0.0005				
10/11/2017				<0.0005			
10/12/2017							<0.0005
11/20/2017				<0.0005			<0.0005
1/10/2018							<0.0005
1/11/2018				<0.0005			
2/19/2018							<0.0005
2/20/2018				<0.0005			
3/27/2018			<0.0005				
3/28/2018		<0.0005			<0.0005	<0.0005	
3/29/2018	<0.0005						
4/3/2018				<0.0005			<0.0005
6/5/2018	<0.0005						
6/28/2018				<0.0005			<0.0005
8/7/2018				<0.0005			<0.0005
9/24/2018				<0.0005			<0.0005
9/25/2018	9.6E-05 (J)						
2/26/2019			<0.0005				
2/27/2019		<0.0005			<0.0005	<0.0005	
3/5/2019	<0.0005						
3/29/2019		<0.0005					
4/1/2019			<0.0005		<0.0005	<0.0005	
4/2/2019	<0.0005						
8/21/2019				<0.0005			<0.0005
9/24/2019	<0.0005	<0.0005					
9/25/2019			<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
10/9/2019				<0.0005			<0.0005
2/11/2020		<0.0005				<0.0005	
2/12/2020	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/19/2020		<0.0005	<0.0005		<0.0005	<0.0005	
3/24/2020	<0.0005						<0.0005
3/25/2020				<0.0005			
9/23/2020		<0.0005			<0.0005	<0.0005	
9/24/2020	<0.0005		<0.0005	<0.0005			<0.0005
2/9/2021	0.00041 (J)						
2/10/2021		<0.0005		0.00019 (J)	<0.0005	<0.0005	<0.0005
2/11/2021			<0.0005				
3/1/2021			<0.0005				
3/3/2021		<0.0005			<0.0005	<0.0005	
3/4/2021	<0.0005			0.0003 (J)			<0.0005
8/19/2021			<0.0005		<0.0005		
8/26/2021				0.00049 (J)			
8/27/2021		<0.0005				<0.0005	
9/1/2021	<0.0005						
9/3/2021							<0.0005
2/8/2022				0.00063			<0.0005
2/9/2022	<0.0005	<0.0005			<0.0005	<0.0005	
2/11/2022			<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0005	<0.0005	<0.0005
7/26/2016		<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)			
9/14/2016		<0.0005	<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005	
11/4/2016				<0.0005
11/14/2016	0.0001 (J)			
1/12/2017			<0.0005	9E-05 (J)
1/13/2017		<0.0005		
2/24/2017	9E-05 (J)			
3/6/2017		<0.0005		
3/7/2017			<0.0005	<0.0005
5/1/2017		<0.0005	<0.0005	
5/2/2017				<0.0005
5/8/2017	0.0001 (J)			
6/27/2017			<0.0005	<0.0005
6/29/2017		<0.0005		
7/11/2017	<0.0005			
10/10/2017	<0.0005			
3/29/2018		<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005			
6/6/2018			<0.0005	
6/7/2018		<0.0005		<0.0005
9/19/2018	<0.0005			
9/26/2018		<0.0005	<0.0005	<0.0005
3/4/2019		<0.0005	<0.0005	<0.0005
4/3/2019		<0.0005	<0.0005	<0.0005
8/20/2019	<0.0005			
9/24/2019			<0.0005	<0.0005
9/25/2019		<0.0005		
10/8/2019	<0.0005			
2/12/2020		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005			
3/24/2020			<0.0005	<0.0005
3/25/2020		<0.0005		
8/27/2020	<0.0005			
9/22/2020		<0.0005	<0.0005	<0.0005
2/8/2021			<0.0005	<0.0005
2/9/2021		<0.0005		
3/2/2021			<0.0005	<0.0005
3/3/2021		<0.0005		
8/19/2021	<0.0005			
8/26/2021		<0.0005	<0.0005	<0.0005
2/8/2022	<0.0005			
2/10/2022			<0.0005	<0.0005
2/11/2022		<0.0005		

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	9.31	69.4	19.9	7.23			
9/1/2016					37.1	113	56.8
11/28/2016	9.47 (B)		17.7 (B)				
11/29/2016		70.6 (B)					50.7 (B)
11/30/2016				6.43 (B)	13.4 (B)		
12/1/2016						141 (B)	
2/22/2017	10.4		16.2				
2/23/2017		62.4		4.25			63.5
2/24/2017					29.5	118	
5/8/2017	14.2						
5/9/2017		47.4		3.56			
5/10/2017			11.8		17	136	105
7/17/2017	14.1					125	
7/18/2017		33.2	8.69	4.16	16.8		157
10/16/2017	13.6					78.2	
10/17/2017		38.7	9.77		14.3		
10/18/2017				5.67			118
2/19/2018	<25						124
2/20/2018			<25		<25		
2/21/2018		34.3		4.76		64	
8/6/2018	11.4 (J)						173
8/7/2018		26.2		4.7		83	
8/8/2018			13.4 (J)		22.1 (J)		
2/25/2019	12.7 (J)						143
2/26/2019		24.7 (J)	20.9 (J)	7.1	15.1 (J)	94.4	
6/12/2019	18.9		26.6		24.2		
6/13/2019		33.8		15.7		127	146
10/8/2019	28.3						115
10/9/2019		59.1	27.8			128	
10/10/2019				4.3	18		
3/17/2020	24.3	36.7		20.3			66.8
3/18/2020			34.5		76.6	149	
9/22/2020	31	98.8	40.5	6.2	21.8		
9/23/2020						144	103
3/1/2021		117	54.1		69.5		
3/2/2021	34.2			17.9		145	
3/3/2021							105
8/18/2021		154	45.8	20.2	56.2	159	74.5
8/20/2021	26.5						
2/8/2022	25.6	166		17.9	66.5		61.5
2/9/2022			46.6			139	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					12	2.5	
6/2/2016	1.3						
6/6/2016			6.2	1.4			
6/7/2016		2.2					2.3
7/25/2016						2.16	
7/26/2016	1.24				11		
7/27/2016		2	4.73	1.19			2.08
9/13/2016					11.8	2.21	
9/15/2016	1.17						
9/16/2016		1.97		1.5			
9/19/2016			4.76				1.97
11/1/2016					11		
11/2/2016	1.23						2.13
11/3/2016		1.99	5.25	1.31			
11/4/2016						2.67	
1/10/2017	1.24						
1/11/2017		2.28	4.74	1.25	11.2		
1/13/2017							2.45
1/16/2017						2.45	
3/1/2017			5.37	1.26			
3/2/2017		2.15			11	2.57	
3/6/2017							2.48
3/8/2017	1.21						
4/26/2017	1.14		4.28	1.05			2.3
4/27/2017					11.1	2.38	
5/2/2017		1.95					
6/27/2017					13.8	2.36	
6/28/2017			4.95	1.06			
6/29/2017		2.02					2.54
6/30/2017	1.24						
10/3/2017					14	2.21	
10/4/2017		2.03		1.1			2.25
10/5/2017	1.11		5.28				
6/5/2018					15.2 (J)		
6/6/2018						2.3	2.3
6/7/2018			4.8				
6/8/2018	1.1						
6/11/2018		2.1		1.4			
9/25/2018		2.1	4.6	1			2.3
10/1/2018	0.99				15.1	1.8	
3/28/2019					13.3 (J)	2.2	
3/29/2019	1.1						
4/2/2019		2.5					
4/3/2019			5.3	1.2			2.9
9/24/2019					15.8	2.3	
9/25/2019	1.1	2.6					2.4
9/26/2019			4.9	1.1			
3/18/2020	1.1					2.1	
3/19/2020					15		
3/24/2020		2.7	5.3	1			2.6
9/23/2020		2.6	5.2	0.91 (J)	14.1	1.8	
9/24/2020							2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	1.3						
3/2/2021	1.2						
3/3/2021		2.5	5.2	0.96 (J)	14.1	1.8	2.4
8/19/2021	1.2				14.2	2	
8/26/2021				0.98 (J)			
8/27/2021		2.7	5.1				2.4
2/9/2022		2.8	5.1	0.87 (J)	14.9	2.1	2.3
2/10/2022	1.3						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						21	
6/2/2016			1.3		28		
6/7/2016	3.7						
7/25/2016			1.17			20.3	
7/26/2016					24.5		
7/28/2016	3.15						
9/14/2016		23.5				19.7	
9/15/2016					27		
9/19/2016	3.17		1.05				
11/1/2016			1.14		25.6	18.4	
11/3/2016	3.4						
11/4/2016		23.7					
12/15/2016		23.1					
1/11/2017					27.5	20.3	
1/13/2017	4.98						
1/16/2017		23.3	1.23				
2/21/2017			1.25				
3/1/2017						18.6	
3/2/2017					27.5		
3/3/2017		25.1					
3/6/2017	6.28						
4/26/2017	6.65		1.03		30.4	25.6	
4/28/2017		30.7					
5/26/2017		26.2					
6/28/2017		26.1			29.8	23.9	
6/29/2017	6.04						
6/30/2017			1.13				
10/3/2017	8.28	26.7					
10/4/2017			1.09		29.7	22.1	
10/11/2017				2.74			
10/12/2017							2.9
11/20/2017				1.81			10.4
1/10/2018							10.2
1/11/2018				1.54			
2/19/2018							<25
2/20/2018				1.71			
4/3/2018				1.4			6.3
6/5/2018	9.1						
6/7/2018		25			29.1		
6/8/2018						21.9 (J)	
6/11/2018			1.1				
6/28/2018				1.4			6.7
8/7/2018				1.2			6.3
9/24/2018				1.1			5.7
9/25/2018	10.4 (J)						
10/1/2018		25			26.9	19.7	
10/2/2018			1.1				
3/26/2019							5.6
3/27/2019				1.5			
3/29/2019		23.5 (J)					
4/1/2019			1.3		30.1	20.4 (J)	
4/2/2019	8.8						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	7.7	26.4					
9/25/2019			1.1		29.5	22.4	
10/9/2019				2.4			4.9
3/19/2020		27.4	1.2		31.5	21.9	
3/24/2020	6						4.8
3/25/2020				2.7			
9/23/2020		26.3			28.6	23.6	
9/24/2020	7.8		1.1	3.7			4.4
3/1/2021			1.2				
3/3/2021		25.6			29.8	20.6	
3/4/2021	8.7			8.2			4.6
8/19/2021			1.2		28.1		
8/26/2021				14.1			
8/27/2021		22.6				24.7	
9/1/2021	9.5						
9/3/2021							5.6
2/8/2022				15.2			6
2/9/2022	9.8	23.4			30.3	23.7	
2/11/2022			1.5				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8.8	33	2.4
7/26/2016		7.69	32.3	2.12
8/30/2016	20.9			
9/14/2016		8.49	31	2.18
11/2/2016		7.83	30.9	
11/4/2016				2.17 (J)
11/14/2016	18.6			
1/12/2017			35.7	2.37
1/13/2017		8.08		
2/24/2017	16.1			
3/6/2017		8.64		
3/7/2017			32.7	2.34
5/1/2017		13.4	37	
5/2/2017				2.17
5/8/2017	14.6			
6/27/2017			36.5	2.13
6/29/2017		8.81		
7/11/2017	14.3			
10/3/2017			30.9	2.15
10/5/2017		9.29		
10/10/2017	12.1			
4/2/2018	<25			
6/6/2018			26.2	
6/7/2018		8.2		2.3
9/19/2018	11.1 (J)			
9/26/2018		9.5 (J)	25.8	2.3
3/27/2019	10.8 (J)			
4/3/2019		8.4	24.7 (J)	2.8
9/24/2019			25.8	2.5
9/25/2019		9.5		
10/8/2019	9.7			
3/17/2020	14.8			
3/24/2020			26.1	2.5
3/25/2020		10.5		
9/22/2020	10.1	9.6	27.2	2.6
3/1/2021	10.3			
3/2/2021			1.6	2.6
3/3/2021		7.7		
8/19/2021	9.6			
8/26/2021		7.6	25.2	2.5
2/8/2022	9.4			
2/10/2022			24.8	2.5
2/11/2022		7.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	4	7.6	6.3	6.7			
9/1/2016					190	6.6	4.4
11/28/2016	4.2		6.7				
11/29/2016		5.8					4.8
11/30/2016				7.8	48		
12/1/2016						6	
2/22/2017	3.7		5.7				
2/23/2017		6.2		6.5			4.4
2/24/2017					130	3.4	
5/8/2017	4.2						
5/9/2017		16		7.2			
5/10/2017			7.1		71	4.5	3.9
7/17/2017	3.8					3.2	
7/18/2017		18	6	7.7	46		4
10/16/2017	4.2					9	
10/17/2017		31	6.1		50		
10/18/2017				6.5			4.1
2/19/2018	4.3						4.4
2/20/2018			5.8		53.1		
2/21/2018		27		6.7		5.6	
8/6/2018	3.8						3.9
8/7/2018		35.4		6.3		4.7	
8/8/2018			4.7		69.3		
2/25/2019	4.1						4.4
2/26/2019		20	5.7	5.7	42.2	4.2	
6/12/2019	4.7		9.1		69.5		
6/13/2019		16.4		5		5.5	6.2
10/8/2019	5.1						4.9
10/9/2019		6.9	9.8			4.5	
10/10/2019				5.3	42.8		
3/17/2020	4.8	15.5		5.2			4.4
3/18/2020			11.7		233	3.8	
9/22/2020	4.2	5.5	24.7	4.2	60.2		
9/23/2020						3	4.7
3/1/2021		8.6	49.6		194		
3/2/2021	4.1			5.5		2.9	
3/3/2021							5
8/18/2021		5.2	26.2	4.6	150	2.3	5.4
8/20/2021	5.2						
2/8/2022	5.7	5.6		4.5	162		6.9
2/9/2022			21.2			2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					1.3	1.6	
6/2/2016	4.1						
6/6/2016			6.8	6.4			
6/7/2016		4.5					1.9
7/25/2016						1.4	
7/26/2016	4				1.2		
7/27/2016		4.5	6.7	6.2			1.9
9/13/2016					1.1	1.3	
9/15/2016	4.2						
9/16/2016		4.5		6.1			
9/19/2016			7				1.9
11/1/2016					1.3		
11/2/2016	4.9						2.6
11/3/2016		5.4	7.5	7.4			
11/4/2016						1.6	
1/10/2017	4.1						
1/11/2017		4.7	6.5	6.1	1.1		
1/13/2017							2.3
1/16/2017						1.4	
3/1/2017			6.9	6			
3/2/2017		4.8			1	1.3	
3/6/2017							1.9
3/8/2017	4.2						
4/26/2017	4.1		7	6.5			2
4/27/2017					1	1.3	
5/2/2017		4.6					
6/27/2017					1.1	1.4	
6/28/2017			7	6.4			
6/29/2017		4.5					2.6
6/30/2017	3.7						
10/3/2017					1.1	1.7	
10/4/2017		4.7		6.8			2.6
10/5/2017	3.8		7				
6/5/2018					1.1		
6/6/2018						1.4	2.7
6/7/2018			6.8				
6/8/2018	3.4						
6/11/2018		4.9		6.8			
9/25/2018		5.6	7.9	7.8			3.6
10/1/2018	3.8				1.1	1.4	
3/28/2019					1.4	1.5	
3/29/2019	4.2						
4/2/2019		4.8					
4/3/2019			6.9	6.3			3.1
9/24/2019					1.1	1.3	
9/25/2019	4.8	5.7					2.8
9/26/2019			7	7.1			
3/18/2020	5.2					1.4	
3/19/2020					1.1		
3/24/2020		5	7	6.8			2.7
9/23/2020		6.6	7.2	7.2	0.99 (J)	1.2	
9/24/2020							2.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	5.3						
3/2/2021	4.9						
3/3/2021		7.1	7	7.2	0.96 (J)	1.2	2.7
8/19/2021	5				1.1	1.3	
8/26/2021				7.3			
8/27/2021		8.5	7.4				2.8
2/9/2022		10.9	7.5	7	1	1.3	2.8
2/10/2022	4.7						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						1.3	
6/2/2016			1.9		1.4		
6/7/2016	2.8						
7/25/2016			1.7			1.3	
7/26/2016					1.6		
7/28/2016	2.6						
9/14/2016		1.1				1.3	
9/15/2016					1.5		
9/19/2016	2.4		1.6				
11/1/2016			1.8		1.7	1.4	
11/3/2016	2.9						
11/4/2016		1.4					
12/15/2016		2.9					
1/11/2017					1.2	1.1	
1/13/2017	2.5						
1/16/2017		0.98	1.7				
2/21/2017			1.7				
3/1/2017						1.1	
3/2/2017					1.2		
3/3/2017		1.1					
3/6/2017	2.1						
4/26/2017	2.1		1.7		1.2	1.1	
4/28/2017		0.91					
5/26/2017		0.93					
6/28/2017		1			1.3	1.2	
6/29/2017	2.8						
6/30/2017			1.8				
10/3/2017	2.2	1.2					
10/4/2017			1.8		1.5	1.2	
10/11/2017				2.4			
10/12/2017							3.8
11/20/2017				1.8			4.4
1/10/2018							4.6
1/11/2018				1.6			
2/19/2018							4.6
2/20/2018				2			
4/3/2018				3.3			5.9
6/5/2018	1.7						
6/7/2018		1			1.2		
6/8/2018						1.2	
6/11/2018			2				
6/28/2018				2.1			5
8/7/2018				1.2			4.3
9/24/2018				1.3			4.9
9/25/2018	2.2						
10/1/2018		1.1			1.5	1.2	
10/2/2018			1.8				
3/26/2019							4.4
3/27/2019				1.4			
3/29/2019		1.2					
4/1/2019			1.7		1.2	1.1	
4/2/2019	2.5						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	3.1	0.95 (J)					
9/25/2019			1.6		1.1	1.1	
10/9/2019				2.1			5.1
3/19/2020		0.97 (J)	1.8		1.2	1.1	
3/24/2020	2.8						4.7
3/25/2020				1.9			
9/23/2020		0.88 (J)			1.1	1	
9/24/2020	2		1.5	2.7			5
3/1/2021			1.6				
3/3/2021		0.86 (J)			1.1	0.99 (J)	
3/4/2021	1.8			4.9			4.9
8/19/2021			1.6		1.1		
8/26/2021				7.2			
8/27/2021		0.99 (J)				1.1	
9/1/2021	1.8						
9/3/2021							5.5
2/8/2022				7.4			6.2
2/9/2022	1.7	1 (J)			1.1	1.1	
2/11/2022			2.1				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		3.7	7.2	4.3
7/26/2016		3.6	6.6	4.4
8/30/2016	5.2			
9/14/2016		3.4	6.6	3.8
11/2/2016		4.5	7.6	
11/4/2016				4.8
11/14/2016	6.4			
1/12/2017			6.8	3.8
1/13/2017		4.2		
2/24/2017	5.5			
3/6/2017		3.6		
3/7/2017			6.8	4.5
5/1/2017		4.3	7.2	
5/2/2017				4.6
5/8/2017	5.8			
6/27/2017			7	4.3
6/29/2017		4.2		
7/11/2017	5.8			
10/3/2017			6.5	4.2
10/5/2017		4.7		
10/10/2017	5.9			
4/2/2018	4.8			
6/6/2018			4.7	
6/7/2018		4.4		4.5
9/19/2018	4			
9/26/2018		4.8	4.8	5.1
3/27/2019	4.3			
4/3/2019		4.3	4	4.2
9/24/2019			3.7	4.5
9/25/2019		4.5		
10/8/2019	4.4			
3/17/2020	4.1			
3/24/2020			3.5	4.3
3/25/2020		3.9		
9/22/2020	4.2	4.5	3.6	4.2
3/1/2021	3.7			
3/2/2021			3.2	4.3
3/3/2021		4.1		
8/19/2021	3.5			
8/26/2021		4.4	3.4	4.3
2/8/2022	3.2			
2/10/2022			3.2	4.4
2/11/2022		4.1		

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	0.01						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	<0.005						
12/5/2003	<0.005						
9/22/2004	0.0067						
5/1/2007		0.0029					
9/11/2007		0.0084					
3/20/2008		0.0027					
8/27/2008		0.0026					
3/3/2009		0.0022					
11/18/2009		0.0036					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		0.0062	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	0.0017	0.0019		
8/14/2013						<0.005	0.0016
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		0.0059			0.0023		0.0018
8/4/2014					0.002	<0.005	0.0029
8/5/2014		<0.005	<0.005	<0.005			
2/2/2015			0.0028	<0.005		<0.005	
2/3/2015					0.0014		0.0017
2/4/2015		<0.005					
8/3/2015		0.0011 (J)			0.0012 (JD)	<0.005 (D)	0.0028 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		<0.005	<0.005		0.0017	<0.005	0.0028
2/17/2016				<0.005			
8/31/2016		<0.005	0.0012 (J)	<0.005	0.0013 (J)		
9/1/2016						<0.005	0.0021 (J)
11/28/2016		<0.005		<0.005			
11/29/2016			0.0009 (J)				
11/30/2016					0.001 (J)	0.0013 (J)	
12/1/2016							0.0017 (J)
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.001 (J)		0.0012 (J)		
2/24/2017						<0.005	0.0018 (J)
5/8/2017		<0.005					
5/9/2017			0.0011 (J)		0.0016 (J)		
5/10/2017				0.0008 (J)		0.0007 (J)	0.0024 (J)
7/17/2017		<0.005					0.0017 (J)
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)	
10/16/2017		<0.005					0.0023 (J)
10/17/2017			0.001 (J)	<0.005		<0.005	
10/18/2017					0.001 (J)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		<0.005					
8/7/2018			<0.005		<0.005		0.0024 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.0019 (J)
6/12/2019		<0.005		<0.005		<0.005	
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)
8/19/2019		<0.005				0.00051 (J)	
8/20/2019			0.0011 (J)	<0.005			
8/21/2019					0.001 (J)		0.0024 (J)
10/8/2019		<0.005					
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)
10/10/2019					0.0014 (J)	0.00057 (J)	
3/17/2020		<0.005	0.001 (J)		0.0013 (J)		
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)
8/26/2020		<0.005					
8/27/2020			0.0013 (J)				0.0022 (J)
8/28/2020				0.00057 (J)	0.00088 (J)	<0.005	
9/22/2020		<0.005	0.0012 (J)	<0.005	0.0011 (J)	<0.005	
9/23/2020							0.002 (J)
3/1/2021			0.0012 (J)	<0.005		<0.005	
3/2/2021		<0.005			0.001 (J)		0.0021 (J)
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)
8/20/2021		<0.005					
2/8/2022		<0.005	0.002 (J)		0.0011 (J)	<0.005	
2/9/2022				<0.005			0.0022 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	0.0018						
3/5/2012	<0.005						
9/5/2012	0.0013						
2/5/2013	<0.005						
8/13/2013	0.0025						
2/4/2014	0.0013						
8/5/2014	0.0018						
2/3/2015	0.0015						
8/4/2015	0.0028						
2/16/2016	0.001 (J)						
6/1/2016						0.0035	<0.005
6/2/2016		<0.005					
6/6/2016				0.0012 (J)	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				<0.005	
7/27/2016			0.0008 (J)	0.0007 (J)	0.0006 (J)		
9/1/2016	0.0015 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0014 (J)						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0017 (J)						
3/1/2017				0.0012 (J)	<0.005		
3/2/2017			0.001 (J)			0.0009 (J)	0.0004 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		0.0005 (J)	0.0003 (J)		
4/27/2017						<0.005	<0.005
5/2/2017			0.0007 (J)				
5/10/2017	0.0015 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				0.0006 (J)	<0.005		
6/29/2017			0.0006 (J)				
6/30/2017		<0.005					
7/18/2017	0.0012 (J)						
10/18/2017	0.0012 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
8/6/2018	<0.005						
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.0021 (J)
3/29/2019		<0.005					
6/13/2019	0.00089 (J)						
8/20/2019	0.0017 (J)						
9/24/2019						0.00072 (J)	0.0028 (J)
9/25/2019		<0.005					
10/8/2019	0.0014 (J)						
2/10/2020						0.00042 (J)	<0.005
2/11/2020			0.00087 (J)	0.001 (J)	0.00088 (J)		
2/12/2020		<0.005					
3/17/2020	0.0013 (J)						
3/18/2020		<0.005					0.00044 (J)
3/19/2020						0.00084 (J)	
3/24/2020			0.00087 (J)	0.00095 (J)	0.0011 (J)		
8/27/2020	0.0012 (J)						
9/23/2020	0.0015 (J)		0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)
9/25/2020		<0.005					
2/9/2021				0.00083 (J)	0.0013 (J)		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0014 (J)		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005
8/18/2021	0.0015 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	0.0017 (J)						
2/9/2022			<0.005	<0.005	0.0014 (J)	<0.005	<0.005
2/10/2022		<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		0.0013 (J)	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	0.0005 (J)						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						0.0006 (J)	
3/3/2017			0.0005 (J)				
3/6/2017	<0.005	<0.005					
4/26/2017	0.0007 (J)	<0.005		0.0016 (J)		<0.005	<0.005
4/28/2017			0.0004 (J)				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	0.0005 (J)	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
8/21/2019					<0.005		
9/24/2019			<0.005				
9/25/2019				<0.005		0.0014 (J)	0.0019 (J)
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	0.00045 (J)	<0.005		<0.005	<0.005	<0.005	
3/19/2020			0.00048 (J)	<0.005		<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00077 (J)	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	0.00076 (J)	<0.005		<0.005	<0.005		
2/9/2021	0.00056 (J)	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			<0.005	<0.005	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0093 (J)			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	0.0004 (J)	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		<0.005			
9/24/2018	<0.005				
3/4/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.00053 (J)				
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)		<0.005	<0.005	0.00043 (J)
3/24/2020	0.00055 (J)			<0.005	0.0014 (J)
3/25/2020			0.00058 (J)		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.0011 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			
3/2/2021				<0.005	<0.005
3/3/2021			0.0013 (J)		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	<0.005			
2/10/2022				<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022			<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.013						
9/20/1999	<0.005						
9/12/2001	0.0024						
9/3/2002	<0.005						
7/29/2003	0.002						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		0.0067					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		0.0027					
9/8/2010		0.007					
11/22/2010				0.038		<0.005	
1/4/2011				0.049		0.0036	
2/17/2011				0.044		0.0035	
3/10/2011		<0.005					
3/11/2011				0.038		0.0053	
3/28/2011				0.029		<0.005	
9/7/2011				0.031	<0.005	0.0033	<0.005
9/8/2011		<0.005	0.015				
3/4/2012						0.0032	
3/5/2012		0.0032	<0.005		<0.005		<0.005
3/6/2012				0.021			
9/5/2012			0.0018		<0.005		<0.005
9/10/2012		<0.005				0.0067	
9/11/2012				0.017			
2/5/2013			0.0013				<0.005
2/6/2013		<0.005		0.025	<0.005	0.0024	
8/12/2013		0.0045					
8/13/2013			<0.005	0.023	<0.005		
8/14/2013						0.0014	<0.005
2/4/2014			<0.005	0.019		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					<0.005	<0.005	<0.005
8/5/2014		0.0027	<0.005	0.023			
2/2/2015			0.0015	0.022		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		0.0016					
8/3/2015		0.002			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	0.021			
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005
2/17/2016				0.024			
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005		
9/1/2016						0.0023 (J)	<0.005
11/28/2016		0.0036 (J)		0.0189			
11/29/2016			<0.005				
11/30/2016					<0.005	0.0008 (J)	
12/1/2016							<0.005
2/22/2017		0.0049 (J)		0.0184			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0009 (J)		<0.005		
2/24/2017						0.0025 (J)	<0.005
5/8/2017		0.0059 (J)					
5/9/2017			0.0008 (J)		<0.005		
5/10/2017				0.0213		<0.005	<0.005
7/17/2017		0.0046 (J)					<0.005
7/18/2017			0.0032 (J)	0.0261	<0.005	0.0005 (J)	
10/16/2017		0.0034 (J)					<0.005
10/17/2017			0.0007 (J)	0.0182		0.0006 (J)	
10/18/2017					<0.005		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		0.003 (J)					
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				0.014		0.001 (J)	
2/25/2019		0.001 (J)					
2/26/2019			<0.005	0.029	<0.005	<0.005	<0.005
6/12/2019		0.003 (J)		0.013		0.00078 (J)	
6/13/2019			0.00033 (J)		0.01		<0.005
8/19/2019		0.0035 (J)				0.001 (J)	
8/20/2019			0.00079 (J)	0.014			
8/21/2019					0.0016 (J)		0.00034 (J)
10/8/2019		0.0039 (J)					
10/9/2019			0.00064 (J)	0.024			0.00031 (J)
10/10/2019					<0.005	0.00099 (J)	
3/17/2020		0.003 (J)	0.00054 (J)		0.011		
3/18/2020				0.019		0.0031 (J)	0.00044 (J)
8/26/2020		0.2 (o)					
8/27/2020			0.00081 (J)				<0.005
8/28/2020				0.0072	0.0041 (J)	0.00049 (J)	
9/22/2020		0.16 (o)	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)	
9/23/2020							<0.005
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)	
3/2/2021		0.21 (o)			0.0086		0.00039 (J)
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)
8/20/2021		0.074 (o)					
2/8/2022		0.072 (o)	0.0019 (J)		0.0074	0.0034 (J)	
2/9/2022				0.00085 (J)			0.00064 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	0.0014						
2/16/2016	<0.005						
6/1/2016						<0.005	0.00082 (J)
6/2/2016		<0.005					
6/6/2016				<0.005	0.00061 (J)		
6/7/2016			<0.005				
7/25/2016							0.0008 (J)
7/26/2016		<0.005				<0.005	
7/27/2016			<0.005	<0.005	0.0004 (J)		
9/1/2016	<0.005						
9/13/2016						<0.005	0.0009 (J)
9/15/2016		<0.005					
9/16/2016			<0.005		0.0008 (J)		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							0.0025 (J)
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							0.0027 (J)
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			<0.005	0.0022 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	0.0018 (J)
5/2/2017			<0.005				
5/10/2017	<0.005						
6/27/2017						<0.005	0.0023 (J)
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	<0.005						
10/18/2017	<0.005						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	<0.005						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				<0.005	0.00059 (J)
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	0.00064 (J)
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.00091 (J)
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	<0.005						
8/20/2019	<0.005						
9/24/2019						<0.005	0.0013 (J)
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	<0.005						
2/10/2020						<0.005	0.0016 (J)
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					0.00087 (J)
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	<0.005						
9/23/2020	<0.005		<0.005	<0.005	<0.005	<0.005	0.0013 (J)
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						0.00086 (J)	0.0028 (J)
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	0.003 (J)
8/18/2021	<0.005						
8/19/2021		<0.005				0.00055 (J)	0.0017 (J)
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	0.00072 (J)	0.0023 (J)
2/10/2022		<0.005					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				0.035		<0.005	
6/7/2016	<0.005	0.0056					
7/25/2016				0.0312			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		0.0032 (J)					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0047 (J)		0.0275			
11/1/2016				0.0255		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		0.013					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	0.011					
1/16/2017			<0.005	0.0245			
2/21/2017				0.0272			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	0.011					
4/26/2017	<0.005	0.009 (J)		0.0244		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	0.0093 (J)					
6/30/2017				0.0233			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				0.023			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		0.0041 (J)					
6/6/2018	<0.005						
6/7/2018			<0.005			<0.005	
6/8/2018							<0.005
6/11/2018				0.023			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0044 (J)					
10/1/2018			<0.005			<0.005	<0.005
10/2/2018				0.022			
2/26/2019				0.021			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)					
3/29/2019			<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.022		<0.005	<0.005
4/2/2019		0.0039 (J)					
4/3/2019	<0.005						
8/21/2019					0.00034 (J)		
9/24/2019		0.0032 (J)	<0.005				
9/25/2019	<0.005			0.016		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	0.0081		0.014	0.00034 (J)	<0.005	
3/19/2020			<0.005	0.014		<0.005	<0.005
3/24/2020	<0.005	0.0061					
3/25/2020					0.00034 (J)		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	0.0079		0.0064	0.00053 (J)		
2/9/2021	<0.005	0.009					
2/10/2021			<0.005		0.00098 (J)	<0.005	<0.005
2/11/2021				0.0078			
3/1/2021				0.0061			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		0.0065			0.00071 (J)		
8/19/2021				0.0052		<0.005	
8/26/2021					0.0011 (J)		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		0.0068					
2/8/2022					0.0012 (J)		
2/9/2022	<0.005	0.0078	<0.005			<0.005	<0.005
2/11/2022				0.0038 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.00082 (J)	<0.005	<0.005
7/26/2016			0.0012 (J)	<0.005	<0.005
8/30/2016		0.0073 (J)			
9/14/2016			0.0006 (J)	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0115			
1/12/2017				<0.005	<0.005
1/13/2017			0.0029 (J)		
2/24/2017		0.0106			
3/6/2017			0.0006 (J)		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		0.0099 (J)			
6/27/2017				<0.005	<0.005
6/29/2017			0.0005 (J)		
7/11/2017		0.0096 (J)			
10/10/2017		0.0036 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			0.00058 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.0036 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			0.00083 (J)	<0.005	<0.005
8/20/2019		0.00092 (J)			
8/21/2019	<0.005				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/8/2019		0.0014 (J)			
10/9/2019	<0.005				
2/12/2020	<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020		0.0017 (J)			
3/24/2020	<0.005			0.00035 (J)	<0.005
3/25/2020			0.00056 (J)		
8/27/2020		0.0011 (J)			
9/22/2020		0.00097 (J)	<0.005	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		0.001 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		0.00099 (J)			
8/26/2021			0.00042 (J)	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	0.0013 (J)			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	1.2						
11/28/2016	0.264 (U)		0.387 (U)				
11/29/2016		0.551 (U)					0.232 (U)
11/30/2016				0.0236 (U)	0.477 (U)		
12/1/2016						0.0588 (U)	
2/22/2017	1.06 (U)		0.739 (U)				
2/23/2017		0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017					0.305 (U)	0.487 (U)	
5/8/2017	0.187 (U)						
5/9/2017		0.434 (U)		0.0367 (U)			
5/10/2017			0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017	1.42					0.528 (U)	
7/18/2017		1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017	1.17					0.558 (U)	
10/17/2017		0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017				0.706 (U)			0.239 (U)
2/19/2018	1.58 (D)						0.973 (D)
2/20/2018			1.64 (D)		1.03 (UD)		
2/21/2018		0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018	0.196 (U)						0.866 (U)
8/7/2018		0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018			2.01		0.0378 (U)		
8/19/2019	1.39				0.637 (U)		
8/20/2019		1.25 (U)	1.22				0.409 (U)
8/21/2019				0.774 (U)		1.82	
10/8/2019	1.32 (U)						0.91 (U)
10/9/2019		0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019				0.433 (U)	0.525 (U)		
3/17/2020	1 (U)	1.4		2.84			2.5
3/18/2020			1.3		0.866 (U)	0.788 (U)	
8/26/2020	1.75 (U)						
8/27/2020		0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020			1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.688 (U)	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020						0 (U)	0.96 (U)
3/1/2021		0.966 (U)	0.976		0.349 (U)		
3/2/2021	0.948 (U)			1.13 (U)		0.686 (U)	
3/3/2021							0.721 (U)
8/18/2021		0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
8/20/2021	0.528 (U)						
2/8/2022	0.462 (U)	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022			0.42 (U)			0.48 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.321 (U)	0.42	
6/2/2016	0.329 (U)						
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)					0.0191 (U)
7/25/2016						1.83	
7/26/2016	1.51				0.707 (U)		
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)			0.541 (U)
9/13/2016					1.22	0.841	
9/15/2016	1.04 (U)						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58				0.826 (U)
11/1/2016					0.805 (U)		
11/2/2016	0.496 (U)						0.791 (U)
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)			
11/4/2016						0.166 (U)	
1/10/2017	0.376 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)	0.705 (U)		
1/13/2017							0.296 (U)
1/16/2017						0	
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)			0.251 (U)	0.504 (U)	
3/6/2017							0.518 (U)
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)		0.507 (U)	0.264 (U)			0.282 (U)
4/27/2017					1.08	0.593 (U)	
5/2/2017		0.111 (U)					
6/27/2017					1.02 (U)	0.657 (U)	
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)					1.12
6/30/2017	0.994						
3/27/2018	0.189 (U)					0.39 (U)	
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					0.503 (U)		1.73
6/5/2018					0.771 (U)		
6/6/2018						2.8	0.694 (U)
6/7/2018			0.668 (U)				
6/8/2018	0.218 (U)						
6/11/2018		0.901 (U)		0.649 (U)			
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)			0.772 (U)
10/1/2018	1.24				0.783 (U)	1.06 (U)	
2/26/2019	0.202 (U)						
2/27/2019					1.21 (U)	0.637 (U)	
3/5/2019		0.272 (U)		0.474 (U)			0.84 (U)
3/6/2019			0.714 (U)				
3/28/2019					1.13 (U)	0.125 (U)	
3/29/2019	0 (U)						
4/2/2019		0.847 (U)					
4/3/2019			0.385 (U)	0.429 (U)			1.01
9/24/2019					1.22 (U)	0.949 (U)	
9/25/2019	0.707 (U)	0.412 (U)					1.18 (U)
9/26/2019			0.386 (U)	0.222 (U)			
2/10/2020					1.41	1.25 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020	1.07 (U)						1.11 (U)
3/18/2020	0.207 (U)					0.458 (U)	
3/19/2020					1.1		
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)			1.88
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)	
9/24/2020							0.611 (U)
9/25/2020	0.603 (U)						
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)			0.284 (U)
2/10/2021	0.353 (U)						
2/12/2021					0.366 (U)	0.458 (U)	
3/2/2021	0.71 (U)						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)
8/19/2021	0.786 (U)				1.17 (U)	0.0732 (U)	
8/26/2021				0.686 (U)			
8/27/2021		0.9 (U)	0.761 (U)				0.779 (U)
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	1.19	0.422 (U)	0.504 (U)
2/10/2022	0 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.896	
6/2/2016			0.0652 (U)		2.51		
6/7/2016	0.347						
7/25/2016			3.01			2.28	
7/26/2016					3.82		
7/28/2016	0.815 (U)						
9/14/2016		0.98 (U)				0.821 (U)	
9/15/2016					4.24		
9/19/2016	0.862 (U)		0.871 (U)				
11/1/2016			0.307 (U)		3.92	0.585 (U)	
11/3/2016	0.797 (U)						
11/4/2016		0.277 (U)					
12/15/2016		0.071 (U)					
1/11/2017					2.52	1.22	
1/13/2017	0.72 (U)						
1/16/2017		0.44 (U)	0.284 (U)				
2/21/2017			0.503 (U)				
3/1/2017						0.877 (U)	
3/2/2017					3.13		
3/3/2017		0.448 (U)					
3/6/2017	0.518 (U)						
4/26/2017	1.13 (U)		0.204 (U)		2.35	0.672 (U)	
4/28/2017		0.548 (U)					
5/26/2017		0 (U)					
6/28/2017		0.608 (U)			2.6	1.07 (U)	
6/29/2017	0.841 (U)						
6/30/2017			0.738 (U)				
10/11/2017				0.586 (U)			
10/12/2017							1.49
11/20/2017				0.816 (U)			0.918 (U)
1/10/2018							1.05
1/11/2018				0.841 (U)			
2/19/2018							2.05
2/20/2018				1.58			
3/27/2018			0.31 (U)				
3/28/2018		0.412 (U)			3	0.65 (U)	
3/29/2018	1.91						
4/3/2018				0.385 (U)			0.68 (U)
6/5/2018	1.39						
6/7/2018		0.73 (U)			2.79		
6/8/2018						1.89	
6/11/2018			0.608 (U)				
6/28/2018				0.283 (U)			1.28
8/7/2018				0.332 (U)			1.16
9/24/2018				0.767 (U)			0.965 (U)
9/25/2018	1.62						
10/1/2018		0.756 (U)			3.14	1.58	
10/2/2018			0.97 (U)				
2/26/2019			0.524 (U)				
2/27/2019		0.635 (U)			3.79	3.67	
3/5/2019	0.985 (U)						
3/29/2019		0.224 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			1.02 (U)		4.33	2.28	
4/2/2019	1.42						
8/21/2019				1.01 (U)			1.24 (U)
9/24/2019	1.35	0.429 (U)					
9/25/2019			1.02 (U)		4.2	1.6	
10/8/2019				1.02 (U)			0.866 (U)
2/11/2020		0.817 (U)			3.87	1.85	
2/12/2020	1.61		0.301 (U)	0.45 (U)			1.83
3/19/2020		0.715 (U)	1		3.96	2.2	
3/24/2020	1.24 (U)						1.27 (U)
3/25/2020				0.377 (U)			
9/23/2020		0.565 (U)			4.14	1.14 (U)	
9/24/2020	1.8		0.684 (U)	0.568 (U)			0.634 (U)
2/9/2021	1.24						
2/10/2021		1.04 (U)		0.518 (U)	3.65	2.46	0.783 (U)
2/11/2021			0.678 (U)				
3/1/2021			0.412 (U)				
3/3/2021	1.2	0.459 (U)			3.58	2.03	
3/4/2021				0.636 (U)			0.818 (U)
8/19/2021			0.234 (U)		3.53		
8/26/2021				0.674 (U)			
8/27/2021		0.409 (U)				1.34	
9/1/2021	1.86						
9/3/2021							0.971 (U)
2/8/2022				0.834			0.534 (U)
2/9/2022	1.94	0.894 (U)			3.28	1.91	
2/10/2022			0.268 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.721	5.11	0.614
7/26/2016		1.26	6.92	1.47
8/30/2016	1.09			
9/14/2016		0.901 (U)	3.96	1.27
11/2/2016		1.09 (U)	4.53	
11/4/2016				0.434 (U)
12/15/2016	1 (U)			
1/12/2017			4.43	0.202 (U)
1/13/2017		1.19		
2/24/2017	0.504 (U)			
3/6/2017		0.669 (U)		
3/7/2017			4.8	0.0674 (U)
5/1/2017		0.803 (U)	4.16	
5/2/2017				0.444 (U)
5/8/2017	0.455 (U)			
6/27/2017			2.8	0.77 (U)
6/29/2017		1.35		
7/11/2017	0.471 (U)			
10/10/2017	0.649 (U)			
3/29/2018		0.703 (U)	3.42	0.648 (U)
4/2/2018	0.512 (U)			
6/6/2018			3.99	
6/7/2018		0.628 (U)		0.745 (U)
9/19/2018	0.789 (U)			
9/26/2018		0.756 (U)	2.73	0.377 (U)
3/4/2019		1.21 (U)	4.43	1 (U)
4/3/2019		1.07 (U)	4.79	0.43 (U)
8/20/2019	2.44			
9/24/2019			4.06	0.699 (U)
9/25/2019		1.86		
10/8/2019	1.72			
2/12/2020		1.25	4.02	0.913 (U)
3/17/2020	1.22 (U)			
3/24/2020			3.52	
3/25/2020		0.766 (U)		
8/27/2020	1.26 (U)			
9/22/2020	1.06 (U)	0.795 (U)	2.98	0.428 (U)
2/8/2021			2.89	0.613 (U)
2/9/2021		0.626 (U)		
3/1/2021	1.2			
3/2/2021			1.67	0.579 (U)
3/3/2021		1		
8/19/2021	1.07 (U)			
8/26/2021		1.17 (U)	4.68	0.798 (U)
2/8/2022	0.4 (U)			
2/10/2022			3.33	0.375 (U)
2/11/2022		0.996		

Time Series

Constituent: Copper (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	0.004						
9/3/2002	0.01						
7/29/2003	0.011						
12/5/2003	0.0034						
9/22/2004	0.0033						
5/1/2007		0.0047					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		0.0074					
3/3/2009		<0.005					
11/18/2009		0.0029					
3/3/2010		0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		0.0049	
2/17/2011				<0.005		<0.005	
3/10/2011		0.0029					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		0.016		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.005				<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.005	<0.005	<0.005		
8/14/2013						<0.005	<0.005
2/4/2014			<0.005	<0.005		<0.005	
2/5/2014		<0.005			<0.005		<0.005
8/4/2014					0.0012 (J)	<0.005	0.0015 (J)
8/5/2014		0.005	<0.005	<0.005			
2/2/2015			0.0031 (J)	<0.005		<0.005	
2/3/2015					<0.005		<0.005
2/4/2015		0.0025 (J)					
8/3/2015		0.0014 (J)			<0.005 (D)	<0.005 (D)	<0.005 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005
2/17/2016				<0.005			
2/22/2017		0.0011 (J)		<0.005			
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		<0.005
8/6/2018		<0.005					

Time Series

Constituent: Copper (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	<0.005
6/12/2019		0.00034 (J)		<0.005		0.00025 (J)	
6/13/2019			<0.005		<0.005		0.00049 (J)
10/8/2019		0.00041 (J)					
10/9/2019			0.00079 (J)	0.00024 (J)			0.00087 (J)
10/10/2019					0.00033 (J)	<0.005	
3/17/2020		0.00078 (J)	0.0004 (J)		0.00039 (J)		
3/18/2020				<0.005		0.00021 (J)	0.00097 (J)
9/22/2020		0.0041 (J)	<0.005	<0.005	<0.005	<0.005	
9/23/2020							<0.005
3/1/2021			<0.005	<0.005		<0.005	
3/2/2021		0.0027 (J)			<0.005		<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)
8/20/2021		0.0012 (J)					
2/8/2022		0.0012 (J)	0.00072 (J)		<0.005	<0.005	
2/9/2022				<0.005			0.0014 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	0.0028
11/18/2009	0.0027
1/5/2010	0.0035
3/3/2010	<0.005
9/7/2010	<0.005
3/10/2011	<0.005
9/8/2011	<0.005
3/5/2012	<0.005
9/5/2012	<0.005
2/5/2013	<0.005
8/13/2013	<0.005
2/4/2014	<0.005
8/5/2014	0.0012 (J)
2/3/2015	0.0013 (J)
8/4/2015	0.0043 (J)
2/16/2016	<0.005
2/23/2017	0.0018 (J)
2/19/2018	<0.005
8/6/2018	0.0016 (J)
2/25/2019	0.0016 (J)
6/13/2019	0.0011 (J)
10/8/2019	0.0011 (J)
3/17/2020	0.00091 (J)
9/23/2020	<0.005
3/3/2021	<0.005
8/18/2021	0.00083 (J)
2/8/2022	0.0008 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.14 (J)	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016					0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016	0.12 (J)		0.03 (J)				
11/29/2016		0.04 (J)					0.05 (J)
11/30/2016				0.03 (J)	0.11 (J)		
12/1/2016						<0.1	
2/22/2017	0.09 (J)		0.04 (J)				
2/23/2017		0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017					0.08 (J)	0.03 (J)	
5/8/2017	0.05 (J)						
5/9/2017		0.06 (J)		<0.1			
5/10/2017			0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017	0.14 (J)					0.37	
7/18/2017		<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017	0.12 (J)					<0.1	
10/17/2017		<0.1	<0.1		<0.1		
10/18/2017				0.22 (J)			<0.1
2/19/2018	0.17						<0.1
2/20/2018			<0.1		<0.1		
2/21/2018		<0.1		<0.1		<0.1	
8/6/2018	0.087 (J)						<0.1
8/7/2018		<0.1		<0.1		<0.1	
8/8/2018			<0.1		<0.1		
2/25/2019	0.14 (J)						<0.1
2/26/2019		<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019	0.12 (J)		0.58		<0.1		
6/13/2019		<0.1		0.58		<0.1	<0.1
8/19/2019	<0.1				<0.1		
8/20/2019		<0.1	<0.1				<0.1
8/21/2019				0.037 (J)		<0.1	
10/8/2019	0.052 (J)						<0.1
10/9/2019		<0.1	<0.1			0.35	
10/10/2019				<0.1	<0.1		
3/17/2020	0.053 (J)	<0.1		0.1 (J)			<0.1
3/18/2020			<0.1		<0.1	<0.1	
8/26/2020	0.068 (J)						
8/27/2020		<0.1				0.064 (J)	<0.1
8/28/2020			<0.1	0.097 (J)	<0.1		
9/22/2020	0.058 (J)	<0.1	<0.1	<0.1	<0.1		
9/23/2020						<0.1	<0.1
3/1/2021		<0.1	<0.1		<0.1		
3/2/2021	0.073 (J)			0.15		0.094 (J)	
3/3/2021							<0.1
8/18/2021		<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
8/20/2021	0.06 (J)						
2/8/2022	0.064 (J)	<0.1		0.16	<0.1		<0.1
2/9/2022			<0.1			0.053 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.12 (J)	<0.1	
6/2/2016	<0.1						
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1					<0.1
7/25/2016						0.06 (J)	
7/26/2016	0.02 (J)				0.08 (J)		
7/27/2016		<0.1	<0.1	<0.1			<0.1
9/13/2016					0.11 (J)	<0.1	
9/15/2016	<0.1						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1				<0.1
11/1/2016					<0.1		
11/2/2016	<0.1						<0.1
11/3/2016		<0.1	<0.1	<0.1			
11/4/2016						<0.1	
1/10/2017	<0.1						
1/11/2017		<0.1	<0.1	<0.1	0.05 (J)		
1/13/2017							<0.1
1/16/2017						<0.1	
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1			<0.1	<0.1	
3/6/2017							<0.1
3/8/2017	<0.1						
4/26/2017	<0.1		<0.1	<0.1			<0.1
4/27/2017					0.04 (J)	0.01 (J)	
5/2/2017		<0.1					
6/27/2017					<0.1	<0.1	
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1					<0.1
6/30/2017	<0.1						
10/3/2017					<0.1	<0.1	
10/4/2017		<0.1		<0.1			<0.1
10/5/2017	<0.1		<0.1				
3/27/2018	<0.1					<0.1	
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1		<0.1
6/5/2018					0.055 (J)		
6/6/2018						<0.1	<0.1
6/7/2018			<0.1				
6/8/2018	<0.1						
6/11/2018		<0.1		<0.1			
9/25/2018		<0.1	<0.1	<0.1			<0.1
10/1/2018	<0.1				<0.1	<0.1	
2/26/2019	<0.1						
2/27/2019					0.052 (J)	<0.1	
3/5/2019		<0.1		<0.1			<0.1
3/6/2019			<0.1				
3/28/2019					0.036 (J)	<0.1	
3/29/2019	<0.1						
4/2/2019		<0.1					
4/3/2019			<0.1	<0.1			<0.1
9/24/2019					0.063 (J)	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	<0.1	<0.1					<0.1
9/26/2019			<0.1	<0.1			
2/10/2020					0.061 (J)	<0.1	
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020	<0.1						<0.1
3/18/2020	<0.1					<0.1	
3/19/2020					0.064 (J)		
3/24/2020		<0.1	<0.1	<0.1			<0.1
9/23/2020		<0.1	<0.1	<0.1	0.058 (J)	<0.1	
9/24/2020							<0.1
9/25/2020	<0.1						
2/9/2021			<0.1	<0.1			<0.1
2/10/2021	<0.1						
2/12/2021					0.068 (J)	<0.1	
3/2/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	0.078 (J)	<0.1	<0.1
8/19/2021	<0.1				0.074 (J)	<0.1	
8/26/2021				<0.1			
8/27/2021		<0.1	<0.1				<0.1
2/9/2022		<0.1	<0.1	<0.1	0.057 (J)	<0.1	<0.1
2/10/2022	<0.1						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.15 (J)	
6/2/2016			<0.1		0.62		
6/7/2016	<0.1						
7/25/2016			0.06 (J)			0.14 (J)	
7/26/2016					0.49		
7/28/2016	0.02 (J)						
9/14/2016		0.08 (J)				0.18 (J)	
9/15/2016					0.54		
9/19/2016	0.02 (J)		<0.1				
11/1/2016			<0.1		0.68	<0.1	
11/3/2016	<0.1						
11/4/2016		<0.1					
12/15/2016		0.06 (J)					
1/11/2017					0.49	0.09 (J)	
1/13/2017	<0.1						
1/16/2017		0.1 (J)	<0.1				
2/21/2017			<0.1				
3/1/2017						<0.1	
3/2/2017					0.48		
3/3/2017		<0.1					
3/6/2017	<0.1						
4/26/2017	0.04 (J)		<0.1		0.48	0.08 (J)	
4/28/2017		0.06 (J)					
5/26/2017		0.09 (J)					
6/28/2017		0.11 (J)			0.47	0.12 (J)	
6/29/2017	<0.1						
6/30/2017			<0.1				
10/3/2017	<0.1	<0.1					
10/4/2017			<0.1		<0.1	<0.1	
10/11/2017				<0.1			
10/12/2017							<0.1
11/20/2017				<0.1			<0.1
1/10/2018							<0.1
1/11/2018				<0.1			
2/19/2018							<0.1
2/20/2018				0.23			
3/27/2018			<0.1				
3/28/2018		0.31			0.56	<0.1	
3/29/2018	<0.1						
4/3/2018				<0.1			<0.1
6/5/2018	0.13 (J)						
6/7/2018		0.11 (J)			0.48		
6/8/2018						0.2 (J)	
6/11/2018			<0.1				
6/28/2018				<0.1			<0.1
8/7/2018				0.048 (J)			<0.1
9/24/2018				<0.1			<0.1
9/25/2018	0 (J)						
10/1/2018		<0.1			0.44	<0.1	
10/2/2018			<0.1				
2/26/2019			<0.1				
2/27/2019		0.12 (J)			0.53	0.13 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/5/2019	0.32						
3/26/2019							<0.1
3/27/2019				<0.1			
3/29/2019		0.13 (J)					
4/1/2019			<0.1		0.45	0.1 (J)	
4/2/2019	0.12 (J)						
8/21/2019				<0.1			<0.1
9/24/2019	0.15 (J)	0.081 (J)					
9/25/2019			<0.1		0.46	0.1 (J)	
10/9/2019				<0.1			<0.1
2/11/2020		0.075 (J)				0.094 (J)	
2/12/2020	0.1 (J)		<0.1	<0.1	0.4		<0.1
3/19/2020		0.093 (J)	<0.1		0.51	0.11 (J)	
3/24/2020	0.081 (J)						<0.1
3/25/2020				<0.1			
9/23/2020		0.08 (J)			0.47	0.098 (J)	
9/24/2020	0.079 (J)		<0.1	<0.1			<0.1
2/9/2021	0.092 (J)						
2/10/2021		0.094 (J)		<0.1	0.43	<0.1	<0.1
2/11/2021			<0.1				
3/1/2021			<0.1				
3/3/2021		0.085 (J)			0.44	0.1	
3/4/2021	0.091 (J)			<0.1			<0.1
8/19/2021			<0.1		0.47		
8/26/2021				0.063 (J)			
8/27/2021		0.12				0.12	
9/1/2021	0.11						
9/3/2021							<0.1
2/8/2022				0.052 (J)			<0.1
2/9/2022	0.1	0.094 (J)			0.43	0.097 (J)	
2/11/2022			<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.1	0.11 (J)	<0.1
7/26/2016		<0.1	0.05 (J)	<0.1
8/30/2016	0.09 (J)			
9/14/2016		<0.1	0.04 (J)	<0.1
11/2/2016		<0.1	<0.1	
11/4/2016				<0.1
11/14/2016	0.18 (J)			
1/12/2017			0.04 (J)	<0.1
1/13/2017		<0.1		
2/24/2017	0.05 (J)			
3/6/2017		<0.1		
3/7/2017			<0.1	<0.1
5/1/2017		<0.1	<0.1	
5/2/2017				<0.1
5/8/2017	0.03 (J)			
6/27/2017			<0.1	<0.1
6/29/2017		<0.1		
7/11/2017	0.07 (J)			
10/3/2017			<0.1	<0.1
10/5/2017		<0.1		
10/10/2017	<0.1			
3/29/2018		<0.1	<0.1	<0.1
4/2/2018	<0.1			
6/6/2018			0.15 (J)	
6/7/2018		<0.1		<0.1
9/19/2018	<0.1			
9/26/2018		<0.1	<0.1	<0.1
3/4/2019		<0.1	0.19 (J)	<0.1
3/27/2019	0.081 (J)			
4/3/2019		<0.1	0.047 (J)	<0.1
8/20/2019	<0.1			
9/24/2019			0.05 (J)	<0.1
9/25/2019		<0.1		
10/8/2019	0.034 (J)			
2/12/2020		<0.1	<0.1	<0.1
3/17/2020	<0.1			
3/24/2020			<0.1	<0.1
3/25/2020		<0.1		
8/27/2020	<0.1			
9/22/2020	<0.1	<0.1	0.056 (J)	<0.1
2/8/2021			0.055 (J)	<0.1
2/9/2021		<0.1		
3/1/2021	<0.1			
3/2/2021			<0.1	<0.1
3/3/2021		<0.1		
8/19/2021	<0.1			
8/26/2021		<0.1	0.061 (J)	<0.1
2/8/2022	<0.1			
2/10/2022			0.055 (J)	<0.1
2/11/2022		<0.1		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.006						
9/20/1999	<0.001						
9/12/2001	0.0042						
9/3/2002	<0.001						
7/29/2003	0.015						
12/5/2003	<0.001						
9/22/2004	<0.001						
5/1/2007		<0.001					
9/11/2007		<0.001					
3/20/2008		<0.001					
8/27/2008		<0.001					
3/3/2009		<0.001					
11/18/2009		<0.001					
3/3/2010		<0.001					
9/8/2010		<0.001					
11/22/2010				<0.001		<0.001	
1/4/2011				<0.001		<0.001	
2/17/2011				<0.001		<0.001	
3/10/2011		<0.001					
3/11/2011				<0.001		<0.001	
3/28/2011				<0.001		<0.001	
9/7/2011				<0.001	<0.001	<0.001	<0.001
9/8/2011		<0.001	<0.001				
3/4/2012						<0.001	
3/5/2012		<0.001	<0.001		<0.001		<0.001
3/6/2012				<0.001			
9/5/2012			<0.001		<0.001		<0.001
9/10/2012		<0.001				<0.001	
9/11/2012				<0.001			
2/5/2013			<0.001				<0.001
2/6/2013		<0.001		<0.001	<0.001	<0.001	
8/12/2013		<0.001					
8/13/2013			<0.001	<0.001	<0.001		
8/14/2013						<0.001	<0.001
2/4/2014			<0.001	<0.001		<0.001	
2/5/2014		<0.001			<0.001		<0.001
8/4/2014					<0.001	<0.001	<0.001
8/5/2014		<0.001	<0.001	<0.001			
2/2/2015			<0.001	<0.001		<0.001	
2/3/2015					<0.001		<0.001
2/4/2015		<0.001					
8/3/2015		<0.001			<0.001 (D)	<0.001 (D)	<0.001 (D)
8/4/2015			<0.001 (D)	<0.001			
2/16/2016		<0.001	<0.001		<0.001	<0.001	<0.001
2/17/2016				<0.001			
8/31/2016		<0.001	<0.001	<0.001	0.0001 (J)		
9/1/2016						<0.001	<0.001
11/28/2016		<0.001		<0.001			
11/29/2016			<0.001				
11/30/2016					<0.001	<0.001	
12/1/2016							<0.001
2/22/2017		<0.001		<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			<0.001		<0.001		
2/24/2017						<0.001	<0.001
5/8/2017		<0.001					
5/9/2017			<0.001		<0.001		
5/10/2017				0.0001 (J)		<0.001	<0.001
7/17/2017		<0.001					<0.001
7/18/2017			<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017		<0.001					<0.001
10/17/2017			<0.001	<0.001		<0.001	
10/18/2017					8E-05 (J)		
2/19/2018		<0.001					
2/20/2018				<0.001		<0.001	
2/21/2018			<0.001		<0.001		<0.001
8/6/2018		<0.001					
8/7/2018			<0.001		<0.001		<0.001
8/8/2018				<0.001		<0.001	
2/25/2019		<0.001					
2/26/2019			<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001		<0.001	
6/13/2019			<0.001		<0.001		<0.001
8/19/2019		<0.001				<0.001	
8/20/2019			<0.001	6.1E-05 (J)			
8/21/2019					8.2E-05 (J)		7E-05 (J)
10/8/2019		<0.001					
10/9/2019			5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)
10/10/2019					<0.001	<0.001	
3/17/2020		<0.001	<0.001		0.00015 (J)		
3/18/2020				<0.001		<0.001	7.9E-05 (J)
8/26/2020		<0.001					
8/27/2020			6.7E-05 (J)				4.9E-05 (J)
8/28/2020				8.4E-05 (J)	5.4E-05 (J)	<0.001	
9/22/2020		0.0001 (J)	<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)	
9/23/2020							0.00019 (J)
3/1/2021			<0.001	7E-05 (J)		<0.001	
3/2/2021		<0.001			9.6E-05 (J)		5.4E-05 (J)
8/18/2021			<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021		<0.001					
2/8/2022		<0.001	<0.001		<0.001	<0.001	
2/9/2022				<0.001			<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.001						
11/18/2009	<0.001						
1/5/2010	<0.001						
3/3/2010	<0.001						
9/7/2010	<0.001						
3/10/2011	<0.001						
9/8/2011	<0.001						
3/5/2012	<0.001						
9/5/2012	<0.001						
2/5/2013	<0.001						
8/13/2013	<0.001						
2/4/2014	<0.001						
8/5/2014	<0.001						
2/3/2015	<0.001						
8/4/2015	<0.001						
2/16/2016	<0.001						
6/1/2016						0.00056 (J)	<0.001
6/2/2016		<0.001					
6/6/2016				<0.001	<0.001		
6/7/2016			<0.001				
7/25/2016							<0.001
7/26/2016		<0.001				<0.001	
7/27/2016			<0.001	<0.001	<0.001		
9/1/2016	<0.001						
9/13/2016						0.0001 (J)	<0.001
9/15/2016		<0.001					
9/16/2016			<0.001		<0.001		
9/19/2016				<0.001			
11/1/2016						<0.001	
11/2/2016		<0.001					
11/3/2016			<0.001	<0.001	<0.001		
11/4/2016							<0.001
11/29/2016	<0.001						
1/10/2017		<0.001					
1/11/2017			<0.001	<0.001	<0.001	<0.001	
1/16/2017							<0.001
2/23/2017	<0.001						
3/1/2017				<0.001	<0.001		
3/2/2017			8E-05 (J)			0.0001 (J)	<0.001
3/8/2017		0.0001 (J)					
4/26/2017		<0.001		<0.001	<0.001		
4/27/2017						<0.001	<0.001
5/2/2017			<0.001				
5/10/2017	<0.001						
6/27/2017						<0.001	<0.001
6/28/2017				<0.001	0.0001 (J)		
6/29/2017			8E-05 (J)				
6/30/2017		<0.001					
7/18/2017	<0.001						
10/18/2017	<0.001						
2/19/2018	<0.001						
3/27/2018		<0.001					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.001	<0.001	<0.001		
3/29/2018						<0.001	
8/6/2018	<0.001						
2/25/2019	<0.001						
2/26/2019		<0.001					
2/27/2019						<0.001	<0.001
3/5/2019			<0.001		<0.001		
3/6/2019				<0.001			
4/2/2019			<0.001				
4/3/2019				<0.001	<0.001		
6/13/2019	<0.001						
8/20/2019	<0.001						
9/25/2019			<0.001				
9/26/2019				<0.001	<0.001		
10/8/2019	<0.001						
2/10/2020						4.9E-05 (J)	<0.001
2/11/2020			<0.001	<0.001	<0.001		
2/12/2020		<0.001					
3/17/2020	<0.001						
3/18/2020		<0.001					<0.001
3/19/2020						0.00012 (J)	
3/24/2020			6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)		
8/27/2020	<0.001						
9/23/2020	<0.001		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)
9/25/2020		<0.001					
2/9/2021				5E-05 (J)	9.4E-05 (J)		
2/10/2021		4.8E-05 (J)					
2/12/2021						4.4E-05 (J)	0.00038 (J)
3/2/2021		<0.001					
3/3/2021	<0.001		<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001
8/18/2021	<0.001						
8/19/2021		<0.001				<0.001	<0.001
8/26/2021					<0.001		
8/27/2021			<0.001	<0.001			
2/8/2022	<0.001						
2/9/2022			<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022		<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.001
6/2/2016				<0.001		0.00056 (J)	
6/7/2016	<0.001	<0.001					
7/25/2016				<0.001			<0.001
7/26/2016						0.0001 (J)	
7/27/2016	<0.001						
7/28/2016		<0.001					
9/14/2016			<0.001				<0.001
9/15/2016						0.0002 (J)	
9/19/2016	<0.001	<0.001		<0.001			
11/1/2016				<0.001		<0.001	<0.001
11/2/2016	0.0013 (J)						
11/3/2016		<0.001					
11/4/2016			<0.001				
12/15/2016			<0.001				
1/11/2017						<0.001	<0.001
1/13/2017	<0.001	<0.001					
1/16/2017			<0.001	<0.001			
2/21/2017				<0.001			
3/1/2017							<0.001
3/2/2017						0.0002 (J)	
3/3/2017			<0.001				
3/6/2017	<0.001	<0.001					
4/26/2017	<0.001	<0.001		<0.001		<0.001	<0.001
4/28/2017			<0.001				
5/26/2017			<0.001				
6/28/2017			<0.001			<0.001	<0.001
6/29/2017	<0.001	<0.001					
6/30/2017				<0.001			
10/11/2017					0.0001 (J)		
11/20/2017					<0.001		
1/11/2018					0.0002 (J)		
2/20/2018					<0.001		
3/27/2018				<0.001			
3/28/2018			<0.001			<0.001	<0.001
3/29/2018	<0.001	<0.001					
4/3/2018					<0.001		
6/28/2018					<0.001		
8/7/2018					<0.001		
9/24/2018					<0.001		
2/26/2019				<0.001			
2/27/2019			<0.001			<0.001	<0.001
3/5/2019	<0.001	<0.001					
4/2/2019		<0.001					
4/3/2019	<0.001						
8/21/2019					<0.001		
9/24/2019		<0.001					
9/25/2019	<0.001						
10/9/2019					<0.001		
2/11/2020			<0.001				<0.001
2/12/2020	<0.001	<0.001		<0.001	<0.001	<0.001	
3/19/2020			<0.001	<0.001		0.00017 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00011 (J)	<0.001					
3/25/2020					5.1E-05 (J)		
9/23/2020			0.0011 (J)			<0.001	0.00015 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)		<0.001	<0.001		
2/9/2021	6.3E-05 (J)	<0.001					
2/10/2021			0.00015 (J)		<0.001	<0.001	<0.001
2/11/2021				4.6E-05 (J)			
3/1/2021				<0.001			
3/3/2021	4.5E-05 (J)		<0.001			<0.001	<0.001
3/4/2021		<0.001			<0.001		
8/19/2021				<0.001		<0.001	
8/26/2021					<0.001		
8/27/2021	<0.001		<0.001				<0.001
9/1/2021		<0.001					
2/8/2022					<0.001		
2/9/2022	<0.001	<0.001	<0.001			<0.001	<0.001
2/11/2022				<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.001	<0.001	<0.001
7/26/2016			<0.001	<0.001	<0.001
8/30/2016		<0.001			
9/14/2016			<0.001	<0.001	<0.001
11/2/2016			<0.001	<0.001	
11/4/2016					<0.001
11/14/2016		<0.001			
1/12/2017				<0.001	<0.001
1/13/2017			<0.001		
2/24/2017		<0.001			
3/6/2017			<0.001		
3/7/2017				0.0001 (J)	7E-05 (J)
5/1/2017			<0.001	<0.001	
5/2/2017					<0.001
5/8/2017		<0.001			
6/27/2017				<0.001	<0.001
6/29/2017			<0.001		
7/11/2017		<0.001			
10/10/2017		<0.001			
10/12/2017	9E-05 (J)				
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				
3/29/2018			<0.001	<0.001	<0.001
4/2/2018		<0.001			
4/3/2018	<0.001				
6/28/2018	<0.001				
8/7/2018	<0.001				
9/19/2018		<0.001			
9/24/2018	<0.001				
3/4/2019			<0.001	<0.001	<0.001
4/3/2019			<0.001	<0.001	<0.001
8/20/2019		<0.001			
8/21/2019	<0.001				
9/24/2019				<0.001	9E-05 (J)
9/25/2019			<0.001		
10/9/2019	<0.001				
2/12/2020	<0.001		<0.001	<0.001	<0.001
3/24/2020	<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020			<0.001		
8/27/2020		<0.001			
9/22/2020		<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021				0.00013 (J)	3.7E-05 (J)
2/9/2021			<0.001		
2/10/2021	<0.001				
3/1/2021		<0.001			
3/2/2021				5.1E-05 (J)	9.2E-05 (J)
3/3/2021			<0.001		
3/4/2021	<0.001				
8/19/2021		<0.001			
8/26/2021			<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/3/2021	<0.001				
2/8/2022	<0.001	<0.001			
2/10/2022				<0.001	<0.001
2/11/2022			<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.03	0.0024 (J)	<0.03	<0.03			
9/1/2016					<0.03	<0.03	<0.03
11/28/2016	<0.03		<0.03				
11/29/2016		<0.03					<0.03
11/30/2016				<0.03	<0.03		
12/1/2016						<0.03	
2/22/2017	<0.03		0.0036 (J)				
2/23/2017		<0.03		<0.03			0.0028 (J)
2/24/2017					<0.03	<0.03	
5/8/2017	0.0014 (J)						
5/9/2017		0.002 (J)		<0.03			
5/10/2017			0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017	<0.03					<0.03	
7/18/2017		<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017	0.0016 (J)					<0.03	
10/17/2017		0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017				<0.03			0.0026 (J)
2/19/2018	<0.03						<0.03
2/20/2018			<0.03		<0.03		
2/21/2018		0.0014 (J)		<0.03		<0.03	
8/6/2018	<0.03						<0.03
8/7/2018		0.001 (J)		<0.03		<0.03	
8/8/2018			0.0031 (J)		<0.03		
8/19/2019	0.0019 (J)				0.00094 (J)		
8/20/2019		0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019				<0.03		0.0015 (J)	
10/8/2019	0.0015 (J)						0.0021 (J)
10/9/2019		0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019				<0.03	0.0013 (J)		
3/17/2020	0.0017 (J)	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020			0.0053 (J)		<0.03	0.0017 (J)	
8/26/2020	0.0032 (J)						
8/27/2020		0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020			0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0029 (J)	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020						0.0012 (J)	0.0023 (J)
3/1/2021		0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021	0.0033 (J)			0.00088 (J)		0.0016 (J)	
3/3/2021							0.0018 (J)
8/18/2021		0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
8/20/2021	0.0028 (J)						
2/8/2022	0.0031 (J)	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022			0.0042 (J)			0.0018 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.015	<0.03	
6/2/2016	<0.03						
6/6/2016			0.0088	0.015			
6/7/2016		<0.03					<0.03
7/25/2016						0.002 (J)	
7/26/2016	<0.03				0.0135 (J)		
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)			<0.03
9/13/2016					0.0112 (J)	<0.03	
9/15/2016	<0.03						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)				<0.03
11/1/2016					0.0163 (J)		
11/2/2016	<0.03						<0.03
11/3/2016		<0.03	<0.03	0.0021 (J)			
11/4/2016						<0.03	
1/10/2017	<0.03						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)	0.0166 (J)		
1/13/2017							<0.03
1/16/2017						0.0023 (J)	
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03			0.0159 (J)	0.0025 (J)	
3/6/2017							<0.03
3/8/2017	<0.03						
4/26/2017	<0.03		0.0041 (J)	0.0019 (J)			<0.03
4/27/2017					0.0137 (J)	0.0027 (J)	
5/2/2017		<0.03					
6/27/2017					0.0094 (J)	0.0024 (J)	
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03					<0.03
6/30/2017	<0.03						
3/27/2018	<0.03					0.0023 (J)	
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					0.0078 (J)		<0.03
6/5/2018					0.0079 (J)		
6/6/2018						0.0024 (J)	<0.03
6/7/2018			0.0032 (J)				
6/8/2018	<0.03						
6/11/2018		<0.03		0.0014 (J)			
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)			<0.03
10/1/2018	<0.03				0.0053 (J)	0.0023 (J)	
2/26/2019	<0.03						
2/27/2019					0.0093 (J)	0.0023 (J)	
3/5/2019		<0.03		0.0031 (J)			<0.03
3/6/2019			0.0033 (J)				
3/28/2019					0.013 (J)	0.0022 (J)	
3/29/2019	<0.03						
4/2/2019		<0.03					
4/3/2019			0.0035 (J)	0.0028 (J)			<0.03
9/24/2019					0.0046 (J)	0.0023 (J)	
9/25/2019	<0.03	<0.03					<0.03
9/26/2019			0.0032 (J)	0.0029 (J)			
2/10/2020					0.011 (J)	0.0023 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			
2/12/2020	<0.03						<0.03
3/18/2020	<0.03					0.0024 (J)	
3/19/2020					0.013 (J)		
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)			<0.03
9/23/2020		<0.03	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)	
9/24/2020							<0.03
9/25/2020	<0.03						
2/9/2021			0.0031 (J)	0.0019 (J)			<0.03
2/10/2021	<0.03						
2/12/2021					0.01 (J)	0.0025 (J)	
3/2/2021	<0.03						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03
8/19/2021	<0.03				0.013 (J)	0.0023 (J)	
8/26/2021				0.0019 (J)			
8/27/2021		<0.03	0.0032 (J)				<0.03
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.013 (J)	0.0027 (J)	0.00082 (J)
2/10/2022	<0.03						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.01	
6/2/2016			<0.03		0.018		
6/7/2016	0.0055						
7/25/2016			<0.03			0.0132 (J)	
7/26/2016					0.0221 (J)		
7/28/2016	0.0045 (J)						
9/14/2016		0.004 (J)				0.012 (J)	
9/15/2016					0.0197 (J)		
9/19/2016	0.0054 (J)		<0.03				
11/1/2016			<0.03		0.0194 (J)	0.0115 (J)	
11/3/2016	<0.03						
11/4/2016		<0.03					
12/15/2016		0.0026 (J)					
1/11/2017					0.0177 (J)	0.0085 (J)	
1/13/2017	0.0062 (J)						
1/16/2017		0.0023 (J)	<0.03				
2/21/2017			<0.03				
3/1/2017						0.0114 (J)	
3/2/2017					0.0185 (J)		
3/3/2017		0.0013 (J)					
3/6/2017	0.0059 (J)						
4/26/2017	0.0054 (J)		<0.03		0.0183 (J)	0.0092 (J)	
4/28/2017		0.0031 (J)					
5/26/2017		0.0038 (J)					
6/28/2017		0.0026 (J)			0.0173 (J)	0.0085 (J)	
6/29/2017	0.0047 (J)						
6/30/2017			<0.03				
10/11/2017				0.0018 (J)			
10/12/2017							<0.03
11/20/2017				0.0018 (J)			<0.03
1/10/2018							<0.03
1/11/2018				0.0019 (J)			
2/19/2018							<0.03
2/20/2018				<0.03			
3/27/2018			0.0011 (J)				
3/28/2018		0.0025 (J)			0.02 (J)	0.013 (J)	
3/29/2018	0.0062 (J)						
4/3/2018				0.0022 (J)			<0.03
6/5/2018	0.0061 (J)						
6/7/2018		0.0017 (J)			0.02 (J)		
6/8/2018						0.012 (J)	
6/11/2018			0.0012 (J)				
6/28/2018				0.0026 (J)			<0.03
8/7/2018				0.0024 (J)			<0.03
9/24/2018				0.0022 (J)			<0.03
9/25/2018	0.0062 (J)						
10/1/2018		<0.03			0.02 (J)	0.011 (J)	
10/2/2018			<0.03				
2/26/2019			0.0011 (J)				
2/27/2019		0.0011 (J)			0.021 (J)	0.014 (J)	
3/5/2019	0.0053 (J)						
3/29/2019		0.0016 (J)					

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			0.001 (J)		0.021 (J)	0.013 (J)	
4/2/2019	0.0051 (J)						
8/21/2019				0.0035 (J)			<0.03
9/24/2019	0.0068 (J)	0.0011 (J)					
9/25/2019			0.0011 (J)		0.02 (J)	0.01 (J)	
10/9/2019				0.0036 (J)			<0.03
2/11/2020		0.0012 (J)				0.013 (J)	
2/12/2020	0.0065 (J)		0.0013 (J)	0.0041 (J)	0.019 (J)		<0.03
3/19/2020		0.0022 (J)	0.0012 (J)		0.023 (J)	0.014 (J)	
3/24/2020	0.0064 (J)						<0.03
3/25/2020				0.0049 (J)			
9/23/2020		0.0016 (J)			0.023 (J)	0.013 (J)	
9/24/2020	0.0069 (J)		0.0011 (J)	0.0054 (J)			<0.03
2/9/2021	0.006 (J)						
2/10/2021		0.0039 (J)		0.0071 (J)	0.023 (J)	0.015 (J)	<0.03
2/11/2021			0.0012 (J)				
3/1/2021			0.0011 (J)				
3/3/2021		0.0016 (J)			0.024 (J)	0.017 (J)	
3/4/2021	0.0062 (J)			0.0084 (J)			<0.03
8/19/2021			0.0012 (J)		0.023 (J)		
8/26/2021				0.0082 (J)			
8/27/2021		0.0058 (J)				0.026 (J)	
9/1/2021	0.0057 (J)						
9/3/2021							<0.03
2/8/2022				0.008 (J)			0.00076 (J)
2/9/2022	0.0061 (J)	0.006 (J)			0.026 (J)	0.021 (J)	
2/11/2022			0.0014 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.013	0.0049 (J)	<0.03
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016	0.0061 (J)			
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)
11/2/2016		0.0136 (J)	0.0053 (J)	
11/4/2016				<0.03
11/14/2016	0.0064 (J)			
1/12/2017			0.0054 (J)	0.0032 (J)
1/13/2017		0.0121 (J)		
2/24/2017	0.0049 (J)			
3/6/2017		0.0143 (J)		
3/7/2017			0.0056 (J)	0.0035 (J)
5/1/2017		0.0132 (J)	0.0031 (J)	
5/2/2017				0.0031 (J)
5/8/2017	0.0053 (J)			
6/27/2017			0.0018 (J)	0.0029 (J)
6/29/2017		0.0145 (J)		
7/11/2017	0.0051 (J)			
10/10/2017	0.0043 (J)			
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018	0.0045 (J)			
6/6/2018			0.0068 (J)	
6/7/2018		0.013 (J)		0.0032 (J)
9/19/2018	0.0043 (J)			
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019	0.0036 (J)			
9/24/2019			0.0065 (J)	0.0031 (J)
9/25/2019		0.014 (J)		
10/8/2019	0.0036 (J)			
2/12/2020		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020	0.0046 (J)			
3/24/2020			0.0064 (J)	0.0033 (J)
3/25/2020		0.014 (J)		
8/27/2020	0.0039 (J)			
9/22/2020	0.0036 (J)	0.013 (J)	0.0066 (J)	0.0034 (J)
2/8/2021			0.0063 (J)	0.0032 (J)
2/9/2021		0.011 (J)		
3/1/2021	0.0037 (J)			
3/2/2021			0.0018 (J)	0.0031 (J)
3/3/2021		0.012 (J)		
8/19/2021	0.0038 (J)			
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)
2/8/2022	0.0039 (J)			
2/10/2022			0.0076 (J)	0.0036 (J)
2/11/2022		0.012 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.0002						
9/11/2007	<0.0002						
3/20/2008	<0.0002						
8/27/2008	<0.0002						
3/3/2009	<0.0002						
9/9/2009							<0.0002
11/18/2009	<0.0002						<0.0002
1/5/2010							<0.0002
3/3/2010	<0.0002						<0.0002
9/7/2010							<0.0002
9/8/2010	<0.0002						
11/22/2010			<0.0002		<0.0002		
1/4/2011			<0.0002		<0.0002		
2/17/2011			<0.0002		<0.0002		
3/10/2011	<0.0002						<0.0002
3/11/2011			<0.0002		<0.0002		
3/28/2011			<0.0002		<0.0002		
9/7/2011			<0.0002	<0.0002	<0.0002	<0.0002	
9/8/2011	<0.0002	<0.0002					<0.0002
3/4/2012					<0.0002		
3/5/2012	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002
3/6/2012			<0.0002				
9/5/2012		<0.0002		<0.0002		<0.0002	<0.0002
9/10/2012	<0.0002				<0.0002		
9/11/2012			<0.0002				
2/5/2013		<0.0002				<0.0002	<0.0002
2/6/2013	<0.0002		<0.0002	<0.0002	0.00014		
8/12/2013	<0.0002						
8/13/2013		<0.0002	<0.0002	<0.0002			<0.0002
8/14/2013					<0.0002	<0.0002	
2/4/2014		<0.0002	<0.0002		<0.0002		<0.0002
2/5/2014	<0.0002			<0.0002		<0.0002	
8/4/2014				<0.0002	<0.0002	<0.0002	
8/5/2014	<0.0002	<0.0002	<0.0002				<0.0002
2/2/2015		<0.0002	<0.0002		<0.0002		
2/3/2015				<0.0002		<0.0002	<0.0002
2/4/2015	<0.0002						
8/3/2015	<0.0002			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)	
8/4/2015		<0.0002 (D)	<0.0002				<0.0002
2/16/2016	1.36E-05 (J)	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016			<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/1/2016					<0.0002	<0.0002	<0.0002
11/28/2016	<0.0002		<0.0002				
11/29/2016		<0.0002					<0.0002
11/30/2016				<0.0002	<0.0002		
12/1/2016						<0.0002	
2/22/2017	<0.0002		<0.0002				
2/23/2017		<0.0002		<0.0002			<0.0002
2/24/2017					<0.0002	<0.0002	
5/8/2017	<0.0002						
5/9/2017		<0.0002		<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017	<0.0002					<0.0002	
7/18/2017		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017	<0.0002					<0.0002	
10/17/2017		<0.0002	<0.0002		<0.0002		
10/18/2017				<0.0002			<0.0002
2/19/2018	<0.0002						<0.0002
2/20/2018			<0.0002		<0.0002		
2/21/2018		<0.0002		<0.0002		<0.0002	
8/6/2018	<0.0002						<0.0002
8/7/2018		<0.0002		<0.0002		<0.0002	
8/8/2018			<0.0002		<0.0002		
2/25/2019	7.4E-05 (J)						6.7E-05 (J)
2/26/2019		5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019	<0.0002		<0.0002		<0.0002		
6/13/2019		<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019	<0.0002				<0.0002		
8/20/2019		<0.0002	<0.0002				<0.0002
8/21/2019				<0.0002		<0.0002	
10/8/2019	<0.0002						<0.0002
10/9/2019		<0.0002	<0.0002			<0.0002	
10/10/2019				0.00043 (J)	<0.0002		
5/6/2020	<0.0002	<0.0002					<0.0002
5/7/2020			<0.0002	<0.0002	<0.0002	<0.0002	
8/26/2020	<0.0002						
8/27/2020		<0.0002				<0.0002	<0.0002
8/28/2020			<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020						<0.0002	<0.0002
3/1/2021		<0.0002	<0.0002		<0.0002		
3/2/2021	<0.0002			<0.0002		<0.0002	
3/3/2021							<0.0002
8/18/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2021	<0.0002						
2/8/2022	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022			<0.0002			<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.0002	<0.0002	
6/2/2016	<0.0002						
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)					9.6E-05 (J)
7/25/2016						<0.0002	
7/26/2016	<0.0002				<0.0002		
7/27/2016		<0.0002	<0.0002	<0.0002			<0.0002
9/13/2016					<0.0002	<0.0002	
9/15/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002				<0.0002
11/1/2016					<0.0002		
11/2/2016	<0.0002						<0.0002
11/3/2016		<0.0002	<0.0002	<0.0002			
11/4/2016						<0.0002	
1/10/2017	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002	<0.0002		
1/13/2017							<0.0002
1/16/2017						<0.0002	
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002			<0.0002	<0.0002	
3/6/2017							<0.0002
3/8/2017	<0.0002						
4/26/2017	<0.0002		<0.0002	<0.0002			<0.0002
4/27/2017					<0.0002	<0.0002	
5/2/2017		<0.0002					
6/27/2017					<0.0002	<0.0002	
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002					<0.0002
6/30/2017	<0.0002						
3/27/2018	<0.0002					<0.0002	
3/28/2018		<0.0002	<0.0002	<0.0002			
3/29/2018					<0.0002		<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002			<0.0002
2/26/2019	6.1E-05 (J)						
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	
3/5/2019		<0.0002		<0.0002			<0.0002
3/6/2019			<0.0002				
3/28/2019					4E-05 (J)	<0.0002	
3/29/2019	<0.0002						
9/24/2019					<0.0002	<0.0002	
9/25/2019	<0.0002						
2/10/2020					<0.0002	<0.0002	
2/11/2020		<0.0002	<0.0002	<0.0002			
2/12/2020	<0.0002						<0.0002
2/9/2021			<0.0002	<0.0002			<0.0002
2/10/2021	<0.0002						
2/12/2021					<0.0002	<0.0002	
3/3/2021		<0.0002	<0.0002	<0.0002			<0.0002
8/26/2021				<0.0002			
8/27/2021		<0.0002	<0.0002				<0.0002
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/10/2022	<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0002	
6/2/2016			<0.0002		<0.0002		
6/7/2016	9.6E-05 (J)						
7/25/2016			<0.0002			<0.0002	
7/26/2016					<0.0002		
7/28/2016	<0.0002						
9/14/2016		<0.0002				<0.0002	
9/15/2016					<0.0002		
9/19/2016	<0.0002		<0.0002				
11/1/2016			<0.0002		<0.0002	<0.0002	
11/3/2016	<0.0002						
11/4/2016		<0.0002					
12/15/2016		<0.0002					
1/11/2017					<0.0002	<0.0002	
1/13/2017	<0.0002						
1/16/2017		<0.0002	<0.0002				
2/21/2017			<0.0002				
3/1/2017						<0.0002	
3/2/2017					<0.0002		
3/3/2017		<0.0002					
3/6/2017	<0.0002						
4/26/2017	<0.0002		<0.0002		<0.0002	<0.0002	
4/28/2017		<0.0002					
5/26/2017		<0.0002					
6/28/2017		<0.0002			<0.0002	<0.0002	
6/29/2017	<0.0002						
6/30/2017			<0.0002				
10/11/2017				<0.0002			
10/12/2017							<0.0002
11/20/2017				7E-05 (J)			8E-05 (J)
1/10/2018							<0.0002
1/11/2018				<0.0002			
2/19/2018							<0.0002
2/20/2018				<0.0002			
3/27/2018			<0.0002				
3/28/2018		<0.0002			<0.0002	<0.0002	
3/29/2018	<0.0002						
4/3/2018				<0.0002			<0.0002
6/28/2018				<0.0002			3.6E-05 (J)
8/7/2018				<0.0002			<0.0002
9/24/2018				<0.0002			<0.0002
9/25/2018	<0.0002						
2/26/2019			6.8E-05 (J)				
2/27/2019		<0.0002			6.2E-05 (J)	6.1E-05 (J)	
3/5/2019	<0.0002						
3/29/2019		<0.0002					
4/1/2019			8.2E-05 (J)		9.6E-05 (J)	8.4E-05 (J)	
8/21/2019				<0.0002			<0.0002
9/24/2019		<0.0002					
9/25/2019			<0.0002		<0.0002	<0.0002	
2/11/2020		<0.0002				<0.0002	
2/12/2020	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/9/2021	<0.0002						
2/10/2021		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2021			<0.0002				
3/4/2021	<0.0002			<0.0002			<0.0002
8/26/2021				<0.0002			
9/1/2021	<0.0002						
9/3/2021							0.00012 (J)
2/8/2022				<0.0002			0.00013 (J)
2/9/2022	<0.0002	<0.0002			<0.0002	<0.0002	
2/11/2022			<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0002	<0.0002	<0.0002
7/26/2016		<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002			
9/14/2016		<0.0002	<0.0002	<0.0002
11/2/2016		<0.0002	<0.0002	
11/4/2016				<0.0002
11/14/2016	<0.0002			
1/12/2017			<0.0002	<0.0002
1/13/2017		<0.0002		
2/24/2017	<0.0002			
3/6/2017		<0.0002		
3/7/2017			<0.0002	<0.0002
5/1/2017		<0.0002	<0.0002	
5/2/2017				<0.0002
5/8/2017	<0.0002			
6/27/2017			<0.0002	<0.0002
6/29/2017		<0.0002		
7/11/2017	<0.0002			
10/10/2017	<0.0002			
3/29/2018		<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002			
9/19/2018	5.3E-05 (J)			
9/26/2018		<0.0002	<0.0002	<0.0002
3/4/2019		<0.0002	<0.0002	<0.0002
8/20/2019	<0.0002			
2/12/2020		<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002			
2/8/2021			<0.0002	<0.0002
2/9/2021		<0.0002		
3/2/2021			<0.0002	<0.0002
3/3/2021		<0.0002		
8/19/2021	<0.0002			
8/26/2021		<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002			
2/10/2022			<0.0002	<0.0002
2/11/2022		<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.01	<0.01	<0.01	<0.01			
9/1/2016					<0.01	<0.01	<0.01
11/28/2016	<0.01		<0.01				
11/29/2016		<0.01					<0.01
11/30/2016				<0.01	<0.01		
12/1/2016						<0.01	
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
10/16/2017	<0.01					<0.01	
10/17/2017		<0.01	<0.01		<0.01		
10/18/2017				<0.01			<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	
8/6/2018	<0.01						<0.01
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
8/19/2019	<0.01				<0.01		
8/20/2019		<0.01	<0.01				<0.01
8/21/2019				<0.01		<0.01	
8/26/2020	<0.01						
8/27/2020		<0.01				<0.01	<0.01
8/28/2020			<0.01	<0.01	<0.01		
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.014 (J)	0.012 (J)	
6/2/2016	<0.01						
6/6/2016			<0.01	<0.01			
6/7/2016		<0.01					<0.01
7/25/2016						0.0098 (J)	
7/26/2016	<0.01				0.0132		
7/27/2016		<0.01	<0.01	<0.01			<0.01
9/13/2016					0.0127	0.01 (J)	
9/15/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01				<0.01
11/1/2016					0.0092 (J)		
11/2/2016	<0.01						<0.01
11/3/2016		<0.01	<0.01	<0.01			
11/4/2016						0.01	
1/10/2017	<0.01						
1/11/2017		<0.01	<0.01	<0.01	0.0093 (J)		
1/13/2017							<0.01
1/16/2017						0.0086 (J)	
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01			0.0099 (J)	0.01	
3/6/2017							<0.01
3/8/2017	<0.01						
4/26/2017	<0.01		<0.01	<0.01			<0.01
4/27/2017					0.0103	0.0101	
5/2/2017		<0.01					
6/27/2017					0.0097 (J)	0.0093 (J)	
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01					<0.01
6/30/2017	<0.01						
3/27/2018	<0.01					0.0074 (J)	
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					0.0076 (J)		<0.01
6/5/2018					0.0092 (J)		
6/6/2018						0.0073 (J)	
6/8/2018	<0.01						
10/1/2018	<0.01				0.0085 (J)	0.0076 (J)	
2/26/2019	<0.01						
2/27/2019					0.0087 (J)	0.0078 (J)	
3/5/2019		<0.01		<0.01			<0.01
3/6/2019			<0.01				
3/28/2019					0.0092 (J)	0.0082 (J)	
3/29/2019	<0.01						
9/24/2019					0.0072 (J)	0.0074 (J)	
9/25/2019	<0.01						
2/10/2020					0.0087 (J)	0.0062 (J)	
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020	<0.01						<0.01
3/18/2020	<0.01					0.0056 (J)	
3/19/2020					0.0088 (J)		
3/24/2020		<0.01	<0.01	<0.01			<0.01
9/23/2020		<0.01	<0.01	<0.01	0.008 (J)	0.0059 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/24/2020							<0.01
9/25/2020	<0.01						
2/9/2021			<0.01	<0.01			<0.01
2/10/2021	<0.01						
2/12/2021					0.008 (J)	0.0056 (J)	
3/2/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01
8/19/2021	<0.01				0.0083 (J)	0.005 (J)	
8/26/2021				<0.01			
8/27/2021		<0.01	<0.01				<0.01
2/9/2022		<0.01	<0.01	<0.01	0.0093 (J)	0.0055 (J)	<0.01
2/10/2022	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.0055 (J)	
6/2/2016			<0.01		0.0093 (J)		
6/7/2016	<0.01						
7/25/2016			<0.01			0.0037 (J)	
7/26/2016					0.0113		
7/28/2016	<0.01						
9/14/2016		0.0039 (J)				0.0034 (J)	
9/15/2016					0.0112		
9/19/2016	<0.01		<0.01				
11/1/2016			<0.01		0.0099 (J)	0.0025 (J)	
11/3/2016	<0.01						
11/4/2016		0.0077 (J)					
12/15/2016		0.0066 (J)					
1/11/2017					0.0093 (J)	0.0033 (J)	
1/13/2017	<0.01						
1/16/2017		0.0056 (J)	<0.01				
2/21/2017			<0.01				
3/1/2017						0.0044 (J)	
3/2/2017					0.0103		
3/3/2017		0.0049 (J)					
3/6/2017	0.0007 (J)						
4/26/2017	0.0008 (J)		<0.01		0.01	0.0075 (J)	
4/28/2017		0.004 (J)					
5/26/2017		0.0029 (J)					
6/28/2017		0.0036 (J)			0.0102	0.008 (J)	
6/29/2017	<0.01						
6/30/2017			<0.01				
10/11/2017				0.0094 (J)			
10/12/2017							<0.01
11/20/2017				0.0081 (J)			<0.01
1/10/2018							<0.01
1/11/2018				0.0074 (J)			
2/19/2018							<0.01
2/20/2018				<0.01			
3/27/2018			<0.01				
3/28/2018		0.0038 (J)			0.011	0.0025 (J)	
3/29/2018	<0.01						
4/3/2018				0.006 (J)			<0.01
6/7/2018		0.004 (J)			0.011		
6/8/2018						0.0041 (J)	
6/11/2018			<0.01				
6/28/2018				0.005 (J)			<0.01
8/7/2018				0.0045 (J)			<0.01
9/24/2018				0.0035 (J)			<0.01
10/1/2018		0.0042 (J)			0.012	0.0037 (J)	
10/2/2018			<0.01				
2/26/2019			<0.01				
2/27/2019		0.0041 (J)			0.011	0.0027 (J)	
3/5/2019	<0.01						
3/29/2019		0.0041 (J)					
4/1/2019			<0.01		0.012	0.0021 (J)	
8/21/2019				0.0021 (J)			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019		0.0054 (J)					
9/25/2019			<0.01		0.012	0.0087 (J)	
10/9/2019				0.0018 (J)			<0.01
2/11/2020		0.0057 (J)				0.003 (J)	
2/12/2020	<0.01		<0.01	0.0025 (J)	0.013		<0.01
3/19/2020		0.0046 (J)	<0.01		0.013	0.0043 (J)	
3/24/2020	<0.01						<0.01
3/25/2020				0.002 (J)			
9/23/2020		0.0071 (J)			0.012	0.01	
9/24/2020	<0.01		<0.01	0.0016 (J)			<0.01
2/9/2021	<0.01						
2/10/2021		0.0041 (J)		0.0013 (J)	0.014	0.0038 (J)	<0.01
2/11/2021			<0.01				
3/1/2021			<0.01				
3/3/2021		0.0074 (J)			0.013	0.0036 (J)	
3/4/2021	<0.01			0.0014 (J)			<0.01
8/19/2021			<0.01		0.013		
8/26/2021				0.0027 (J)			
8/27/2021		0.0048 (J)				0.0099 (J)	
9/1/2021	<0.01						
9/3/2021							<0.01
2/8/2022				0.0035 (J)			<0.01
2/9/2022	<0.01	0.0057 (J)			0.013	0.0087 (J)	
2/11/2022			<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01
7/26/2016		<0.01	0.0042 (J)	<0.01
8/30/2016	<0.01			
9/14/2016		<0.01	0.0041 (J)	<0.01
11/2/2016		<0.01	0.0039 (J)	
11/4/2016				<0.01
11/14/2016	<0.01			
1/12/2017			0.0041 (J)	<0.01
1/13/2017		<0.01		
2/24/2017	<0.01			
3/6/2017		<0.01		
3/7/2017			0.0047 (J)	<0.01
5/1/2017		<0.01	0.0045 (J)	
5/2/2017				<0.01
5/8/2017	<0.01			
6/27/2017			0.004 (J)	<0.01
6/29/2017		<0.01		
7/11/2017	<0.01			
10/10/2017	<0.01			
3/29/2018		<0.01	<0.01	<0.01
4/2/2018	<0.01			
9/19/2018	<0.01			
3/4/2019		<0.01	<0.01	<0.01
8/20/2019	<0.01			
10/8/2019	<0.01			
2/12/2020		<0.01	0.0011 (J)	<0.01
3/17/2020	<0.01			
3/24/2020			0.0011 (J)	<0.01
3/25/2020		<0.01		
8/27/2020	<0.01			
9/22/2020	<0.01	<0.01	0.00099 (J)	<0.01
2/8/2021			0.0011 (J)	<0.01
2/9/2021		<0.01		
3/1/2021	<0.01			
3/2/2021			<0.01	<0.01
3/3/2021		<0.01		
8/19/2021	<0.01			
8/26/2021		<0.01	0.001 (J)	<0.01
2/8/2022	<0.01			
2/10/2022			0.00096 (J)	<0.01
2/11/2022		<0.01		

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	0.0061						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		0.0061					
9/11/2007		0.021					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		0.005					
11/18/2009		0.0052					
3/3/2010		0.011					
9/8/2010		0.012					
11/22/2010				0.0096		<0.005	
1/4/2011				0.0084		<0.005	
2/17/2011				0.0088		<0.005	
3/10/2011		0.0032					
3/11/2011				0.0058		<0.005	
3/28/2011				0.0058		<0.005	
9/7/2011				0.005	0.0054	<0.005	<0.005
9/8/2011		0.0046	0.009				
3/4/2012						<0.005	
3/5/2012		0.0053	0.0035		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			0.0027		<0.005		<0.005
9/10/2012		0.0074				<0.005	
9/11/2012				<0.005			
2/5/2013			0.0026				<0.005
2/6/2013		0.0077		<0.005	<0.005	<0.005	
8/12/2013		0.016					
8/13/2013			<0.005	0.003	0.0032		
8/14/2013						<0.005	0.0032
2/4/2014			<0.005	0.0026		0.0033	
2/5/2014		0.019			0.0039		0.0032
8/4/2014					0.0024 (J)	0.0015 (J)	0.0059
8/5/2014		0.0057	0.0013 (J)	0.0015 (J)			
2/2/2015			0.0023 (J)	<0.005		<0.005	
2/3/2015					<0.005		0.0013 (J)
2/4/2015		0.0055					
8/3/2015		0.0055			<0.005 (D)	<0.005 (D)	0.0039 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		0.0039	<0.005		<0.005	<0.005	0.0036
2/17/2016				<0.005			
2/22/2017		0.0051 (J)		0.0009 (J)			
2/23/2017			0.0026 (J)		<0.005		
2/24/2017						0.0021 (J)	0.0019 (J)
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			0.001 (J)		<0.005		0.0013 (J)
8/6/2018		0.003 (J)					

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/7/2018			<0.005		<0.005		0.0019 (J)
8/8/2018				<0.005		0.0012 (J)	
2/25/2019		0.0026 (J)					
2/26/2019			<0.005	0.0068 (J)	<0.005	<0.005	0.0023 (J)
6/12/2019		0.0038 (J)		0.00043 (J)		0.00082 (J)	
6/13/2019			0.00072 (J)		<0.005		0.0019 (J)
10/8/2019		0.0051 (J)					
10/9/2019			0.0015 (J)	0.00058 (J)			0.0019 (J)
10/10/2019					<0.005	0.00084 (J)	
3/17/2020		0.0066	0.00087 (J)		0.00056 (J)		
3/18/2020				0.00063 (J)		0.0026 (J)	0.002 (J)
9/22/2020		0.027	0.0021 (J)	<0.005	<0.005	0.00077 (J)	
9/23/2020							0.0012 (J)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)	
3/2/2021		0.034			<0.005		0.0014 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)
8/20/2021		0.014					
2/8/2022		0.017	0.0032 (J)		<0.005	0.0017 (J)	
2/9/2022				<0.005			0.0014 (J)

Time Series

Constituent: Nickel (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	<0.005
11/18/2009	<0.005
1/5/2010	<0.005
3/3/2010	<0.005
9/7/2010	<0.005
3/10/2011	<0.005
9/8/2011	<0.005
3/5/2012	<0.005
9/5/2012	<0.005
2/5/2013	<0.005
8/13/2013	<0.005
2/4/2014	<0.005
8/5/2014	<0.005
2/3/2015	<0.005
8/4/2015	<0.005
2/16/2016	<0.005
2/23/2017	0.0015 (J)
2/19/2018	<0.005
8/6/2018	0.0026 (J)
2/25/2019	0.0023 (J)
6/13/2019	0.0037 (J)
10/8/2019	0.0021 (J)
3/17/2020	0.0011 (J)
9/23/2020	0.0016 (J)
3/3/2021	0.0016 (J)
8/18/2021	0.0012 (J)
2/8/2022	0.001 (J)

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/27/2008	6.53						
3/3/2009	6.35						
11/18/2009	6.47						5.82
1/5/2010							5.8
3/3/2010	6.53						6.15
3/10/2011	5.83						6.05
3/11/2011			5.52		6.16		
9/7/2011			4.35	4.31	5.07	5.64	
9/8/2011	5.69	4.49					5.31
3/5/2012	6.27						6.23
3/6/2012			6.37				
9/5/2012							5.83
9/10/2012	6.23						
9/11/2012			5.69				
2/5/2013							6.79
2/6/2013	7.56		6.8				
8/12/2013	6.68						
8/13/2013			5.51				6.48
2/4/2014			5.74				6.14
2/5/2014	6.32						
8/3/2015	6.13 (D)						
2/16/2016	5.64						5.2
2/17/2016			5.59				
11/28/2016	6.23		5.47				
11/29/2016		5.37					5.92
11/30/2016				5.13	5.61		
12/1/2016						5.24	
2/22/2017	6.21		5.48				
2/23/2017		5.5		5.28			5.97
2/24/2017					5.47	5.37	
5/8/2017	6.12						
5/9/2017		5.41		5.12			
5/10/2017			5.6		5.68	5.2	5.82
7/17/2017	6.03					5.21	
7/18/2017		5.5	5.49	5.21	5.59		5.76
10/16/2017	6.12					5.16	
10/17/2017		5.42	5.45		5.52		
10/18/2017				5.17			5.76
2/19/2018	6.13						5.86
2/20/2018			5.52		5.51		
2/21/2018		5.39		5.15		5.18	
8/6/2018	6.01						5.84
8/7/2018		5.14		4.95		5.06	
8/8/2018			5.15		5.33		
2/25/2019	6.51						5.91
2/26/2019		5.52	5.4	5.22	5.42	5.08	
6/12/2019	6.3		5.38		5.54		
6/13/2019		5.55		5.08		5.01	5.84
8/19/2019	6.23				5.56		
8/20/2019		5.33	5.33				5.85
8/21/2019				5.32		4.88	
10/8/2019	6.28						5.91

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
10/9/2019		5.37	5.39			4.89	
10/10/2019				5.4	5.55		
1/21/2020						4.99	
3/17/2020	6.14	5.7		5.03			5.97
3/18/2020			5.38		5.58	4.88	
5/6/2020	6.24	6.8					5.99
5/7/2020			5.43	5.05	5.52	5.2	
8/26/2020	5.67						
8/27/2020		5.39				5.17	5.77
8/28/2020			5.45	5.2	5.38		
9/22/2020	5.78	5.25	5.34	5.11	5.43		
9/23/2020						5.04	5.81
3/1/2021		5.25	5.17		5.62		
3/2/2021	5.42 (D)			4.82		4.63	
3/3/2021							5.78
8/18/2021		5.08	4.96	4.73	5.46	4.76	5.82
8/20/2021	5.86						
2/8/2022	5.83	5.16		5.1	5.67		5.89
2/9/2022			5.2			4.82	

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					7.46	6.33	
6/2/2016	5.46						
6/6/2016			6.17	5.71			
6/7/2016		5.62					5.77
7/25/2016						6.21	
7/26/2016	5.45				7.43		
7/27/2016		5.59	6.14	5.46			5.79
9/13/2016					7.44	6.16	
9/15/2016	5.45						
9/16/2016		5.58					
9/19/2016			6.04	5.59			5.73
11/1/2016					7.24		
11/2/2016	5.41						5.67
11/3/2016		5.59	5.97	5.39			
11/4/2016						6.29	
1/10/2017	5.37						
1/11/2017		5.59	6.05	5.48	7.3		
1/13/2017							5.79
1/16/2017						6.29	
3/1/2017			5.94	5.41			
3/2/2017		5.54			7.23	6.28	
3/6/2017							5.63
3/8/2017	5.41						
4/26/2017	5.02		5.99	5.4			5.66
4/27/2017					6.99	6.09	
5/2/2017		5.47					
6/27/2017					6.87	6.21	
6/28/2017			6	5.36			
6/29/2017		5.56					5.85
6/30/2017	5.39						
10/3/2017					6.81	5.98	
10/4/2017		5.57		5.32			5.83
10/5/2017	5.49		6.11				
3/27/2018	5.47					6.25	
3/28/2018		5.59	6.1	5.34			
3/29/2018					7.38		5.93
6/5/2018					7.16		
6/6/2018						6.17	5.86
6/7/2018			5.98				
6/8/2018	5.45						
6/11/2018		5.58		5.28			
9/25/2018		5.59	5.81	4.86			5.84
10/1/2018	5.39				6.8	5.9	
2/26/2019	5.46						
2/27/2019					6.84	5.8	
3/5/2019		5.48		5.26			6.07
3/6/2019			5.99				
3/28/2019					6.99	6.15	
3/29/2019	5.34						
4/2/2019		5.74					
4/3/2019			6.29	5.47			5.71
9/24/2019					7.07	6.23	

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	5.19	5.49					5.86
9/26/2019			6.04	5.2			
2/10/2020					7.2	6.1	
2/11/2020		5.58	6.07	5.3			
2/12/2020	5.48						6
3/18/2020	5.38					6.19	
3/19/2020					7.03		
3/24/2020		5.57	5.98	5.33			5.86
9/23/2020		5.58	6.01	5.29	7.15	6.01	
9/24/2020							5.8
9/25/2020	5.44						
2/9/2021			6.12	5.43			5.86
2/10/2021	5.35						
2/12/2021					7.14	6.21	
3/2/2021	5.49						
3/3/2021		5.52	5.89	5.31	7.2	5.38	5.89
8/19/2021	7.32				6.32	6.38	
8/26/2021				4.4			
8/27/2021		5.27	5.4				5.57
2/9/2022		5.53	5.98	5.28	7.12	6.24	5.91
2/10/2022	4.5						

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						7.72	
6/2/2016			5.75		7.84		
6/7/2016	6.1						
7/25/2016			5.82			7.74	
7/26/2016					7.88		
7/28/2016	6.12						
9/13/2016		7.41					
9/14/2016						7.65	
9/15/2016					7.74		
9/19/2016	6.12		5.78 (D)				
11/1/2016			5.62		7.75	7.7	
11/3/2016	6.07						
11/4/2016		7.12					
12/15/2016		7.24					
1/11/2017					7.66	7.53	
1/13/2017	6.41						
1/16/2017		7.24	5.72				
2/21/2017			5.67				
3/1/2017						7.42	
3/2/2017					7.68		
3/3/2017		7.22					
3/6/2017	6.34						
4/26/2017	6.32		5.56		7.45	7.4	
4/28/2017		7.21					
5/26/2017		7.13					
6/28/2017		7.06			7.65	7.5	
6/29/2017	6.47						
6/30/2017			5.72				
10/3/2017	6.56	6.99					
10/4/2017			5.87		7.49	7.45	
10/11/2017				6.4			
10/12/2017							5.43
11/20/2017				6.33			5.1
1/10/2018							4.97
1/11/2018				6.29			
2/19/2018							5.6
2/20/2018				7.22			
3/27/2018			5.83				
3/28/2018		7.3			7.91	7.74	
3/29/2018	6.75						
4/3/2018				6.87			5.84
6/5/2018	6.09						
6/7/2018		7.29			7.69		
6/8/2018						7.64	
6/11/2018			5.69				
6/28/2018				6.18			5.24
8/7/2018				6.08			5.18
9/24/2018				5.81			5.14
9/25/2018	6.67						
10/1/2018		7.07			7.39	7.47	
10/2/2018			5.39				
2/26/2019			5.77				

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/27/2019		7.27			7.55	7.54	
3/5/2019	7.22						
3/26/2019							5.3
3/27/2019				5.84			
3/29/2019		7.06					
4/1/2019			5.62		7.87	7.74	
4/2/2019	6.94						
8/21/2019				5.96			5.26
9/24/2019	6.87	7.01					
9/25/2019			5.69		7.64	7.47	
10/9/2019				5.81			5.22
2/11/2020		7.38				7.09	
2/12/2020	7.13		5.8	5.97	7.83		5.3
3/19/2020		7.22	6		7.65	7.31	
3/24/2020	6.35						5.29
3/25/2020				5.78			
9/23/2020		7.22			7.57	7.37	
9/24/2020	6.7		5.67	5.7			5.43
2/9/2021	6.95						
2/10/2021		7.29		5.8	7.81	7.58	5.19
2/11/2021			5.73				
3/1/2021			5.78				
3/3/2021		7.92			8.39	8.23	
3/4/2021	6.8			5.54			5.23
8/19/2021					5.34		
8/26/2021				6.91			
8/27/2021		7.14				7.39	
9/1/2021	6.65						
9/3/2021							4.75
2/8/2022				5.78			5.26
2/9/2022	6.84	5.89			7.97	7.66	
2/11/2022			5.59				

Time Series

Constituent: pH (S.U.) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		6.36	7.67	5.75
7/26/2016		6.22	7.66	5.72
8/30/2016	5.75			
9/14/2016		6.23	7.6	5.74
11/2/2016		6.08	7.35	
11/4/2016				5.61
11/14/2016	5.59			
1/12/2017			7.49	5.71
1/13/2017		6.19		
2/24/2017	5.49			
3/6/2017		6.2		
3/7/2017			7.43	5.66
5/1/2017		6.21	7.22	
5/2/2017				5.65
5/8/2017	5.58			
6/27/2017			7.32	5.7
6/29/2017		6.21		
7/11/2017	5.58			
10/3/2017			7.48	5.79
10/5/2017		6.16		
10/10/2017	5.49			
3/29/2018		6.09	7.02	5.63
4/2/2018	6.3			
6/6/2018			7.43	
6/7/2018		6.12		5.63
9/19/2018	5.48			
9/26/2018		5.84	7.13	5.63
3/4/2019		6.18	7.46	5.75
3/27/2019	5.83			
4/3/2019		6.43	7.11	5.63
8/20/2019	5.58			
9/24/2019			6.93	5.6
9/25/2019		6.2		
10/8/2019	5.59			
2/12/2020		6.15	7.52	5.83
3/17/2020	5.57			
3/24/2020			7.34	5.81
3/25/2020		6.26		
8/27/2020	4.88			
9/22/2020	5.46	5.8	7.19	5.99
2/8/2021				5.67
2/9/2021		6.06		
3/1/2021	5.48			
3/2/2021			7.15	5.63
3/3/2021		6.21		
8/19/2021	5.5			
8/26/2021		5.82	7.16	5.51
2/8/2022	5.4			
2/10/2022			6.99	5.14
2/11/2022		5.95		

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	<0.005						
9/20/1999	<0.005						
9/12/2001	<0.005						
9/3/2002	<0.005						
7/29/2003	0.015						
12/5/2003	<0.005						
9/22/2004	<0.005						
5/1/2007		<0.005					
9/11/2007		<0.005					
3/20/2008		<0.005					
8/27/2008		<0.005					
3/3/2009		<0.005					
11/18/2009		<0.005					
3/3/2010		<0.005					
9/8/2010		<0.005					
11/22/2010				<0.005		<0.005	
1/4/2011				<0.005		<0.005	
2/17/2011				<0.005		<0.005	
3/10/2011		<0.005					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.005
9/8/2011		<0.005	<0.005				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		0.014
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		0.012
9/10/2012		<0.005				0.011	
9/11/2012				<0.005			
2/5/2013			<0.005				0.011
2/6/2013		<0.005		<0.005	<0.005	0.011	
8/12/2013		<0.005					
8/13/2013			<0.005	<0.005	0.0057		
8/14/2013						0.013	0.025
2/4/2014			<0.005	<0.005		0.017	
2/5/2014		<0.005			<0.005		0.02
8/4/2014					<0.005	0.0085	0.032
8/5/2014		<0.005	<0.005	<0.005			
2/2/2015			<0.005	<0.005		0.0089	
2/3/2015					<0.005		0.011
2/4/2015		<0.005					
8/3/2015		<0.005			<0.005 (D)	0.0067 (D)	0.046 (D)
8/4/2015			<0.005 (D)	<0.005			
2/16/2016		<0.005	<0.005		<0.005	0.0047 (J)	0.022
2/17/2016				<0.005			
8/31/2016		<0.005	0.0039 (J)	0.0029 (J)	0.0038 (J)		
9/1/2016						0.0132	0.0212
11/28/2016		<0.005		0.0019 (J)			
11/29/2016			0.0033 (J)				
11/30/2016					0.0054 (J)	0.0046 (J)	
12/1/2016							0.0234
2/22/2017		<0.005		0.0015 (J)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/23/2017			0.0097 (J)		0.002 (J)		
2/24/2017						0.0108	0.0154
5/8/2017		<0.005					
5/9/2017			0.0066 (J)		<0.005		
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152
7/17/2017		<0.005					0.0136
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)	
10/16/2017		<0.005					0.0242
10/17/2017			0.003 (J)	0.0028 (J)		0.004 (J)	
10/18/2017					0.0047 (J)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		0.0127
8/6/2018		<0.005					
8/7/2018			<0.005		0.0016 (J)		0.021
8/8/2018				0.0025 (J)		0.0041 (J)	
2/25/2019		<0.005					
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)	
6/13/2019			<0.005		0.0089 (J)		0.027
8/19/2019		<0.005				0.003 (J)	
8/20/2019			0.0022 (J)	0.0032 (J)			
8/21/2019					0.004 (J)		0.037
10/8/2019		<0.005					
10/9/2019			0.0023 (J)	0.0026 (J)			0.034
10/10/2019					0.0021 (J)	0.0024 (J)	
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)		
3/18/2020				0.0032 (J)		0.0046 (J)	0.028
8/26/2020		<0.005					
8/27/2020			0.011				0.021
8/28/2020				0.0037 (J)	0.0045 (J)	0.0031 (J)	
9/22/2020		<0.005	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)	
9/23/2020							0.026
3/1/2021			0.011	0.0043 (J)		0.0041 (J)	
3/2/2021		<0.005			0.012		0.019
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017
8/20/2021		<0.005					
2/8/2022		<0.005	0.02		0.0091	0.0044 (J)	
2/9/2022				0.0042 (J)			0.017

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.005						
11/18/2009	<0.005						
1/5/2010	<0.005						
3/3/2010	<0.005						
9/7/2010	<0.005						
3/10/2011	<0.005						
9/8/2011	<0.005						
3/5/2012	<0.005						
9/5/2012	<0.005						
2/5/2013	<0.005						
8/13/2013	<0.005						
2/4/2014	<0.005						
8/5/2014	<0.005						
2/3/2015	<0.005						
8/4/2015	<0.005						
2/16/2016	<0.005						
6/1/2016						<0.005	<0.005
6/2/2016		0.0011 (J)					
6/6/2016				<0.005	<0.005		
6/7/2016			0.001 (J)				
7/25/2016							<0.005
7/26/2016		0.0016 (J)				<0.005	
7/27/2016			0.0012 (J)	<0.005	<0.005		
9/1/2016	0.002 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		0.0014 (J)					
9/16/2016			0.0015 (J)		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			0.0015 (J)	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0017 (J)						
1/10/2017		0.0012 (J)					
1/11/2017			0.0014 (J)	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0018 (J)						
3/1/2017				<0.005	<0.005		
3/2/2017			0.0017 (J)			<0.005	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	<0.005
5/2/2017			<0.005				
5/10/2017	0.0023 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.0046 (J)						
10/18/2017	0.0037 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/7/2018				<0.005			
6/11/2018			<0.005		<0.005		
8/6/2018	0.0047 (J)						
9/25/2018			<0.005	<0.005	<0.005		
2/25/2019	0.0051 (J)						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	<0.005
3/29/2019		0.0019 (J)					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.0048 (J)						
8/20/2019	0.0039 (J)						
9/24/2019						<0.005	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.0031 (J)						
2/10/2020						<0.005	<0.005
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	0.0026 (J)						
3/18/2020		<0.005					<0.005
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0027 (J)						
9/23/2020	0.0031 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.002 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	0.0016 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2022		0.0014 (J)					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	0.00048 (J)					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0014 (J)		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	<0.005					
4/26/2017	<0.005	<0.005		<0.005		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		<0.005					
6/6/2018	<0.005						
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					0.0015 (J)		
9/25/2018	<0.005	<0.005					
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		<0.005					
4/3/2019	<0.005						
8/21/2019					<0.005		
9/24/2019		<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	<0.005		<0.005	<0.005	<0.005	
3/19/2020			<0.005	<0.005		<0.005	<0.005
3/24/2020	<0.005	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	<0.005		<0.005	<0.005		
2/9/2021	<0.005	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)
8/30/2016		0.0017 (J)			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		0.0011 (J)			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			<0.005		<0.005
6/28/2018	0.0032 (J)				
8/7/2018	0.0031 (J)				
9/19/2018		<0.005			
9/24/2018	0.0026 (J)				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.0024 (J)				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)		<0.005	<0.005	<0.005
3/24/2020	0.002 (J)			<0.005	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020			<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/2/2021				<0.005	<0.005
3/3/2021			0.0019 (J)		
3/4/2021	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 8:16 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	0.0014 (J)	<0.005			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.005						
9/11/2007	<0.005						
3/20/2008	<0.005						
8/27/2008	<0.005						
3/3/2009	<0.005						
9/9/2009							<0.005
11/18/2009	<0.005						<0.005
1/5/2010							<0.005
3/3/2010	<0.005						<0.005
9/7/2010							<0.005
9/8/2010	<0.005						
11/22/2010			<0.005		<0.005		
1/4/2011			<0.005		<0.005		
2/17/2011			<0.005		<0.005		
3/10/2011	<0.005						<0.005
3/11/2011			<0.005		<0.005		
3/28/2011			<0.005		<0.005		
9/7/2011			<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005	<0.005					<0.005
3/4/2012					<0.005		
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012			<0.005				
9/5/2012		<0.005		<0.005		<0.005	<0.005
9/10/2012	<0.005				<0.005		
9/11/2012			<0.005				
2/5/2013		<0.005				<0.005	<0.005
2/6/2013	<0.005		<0.005	<0.005	<0.005		
8/12/2013	<0.005						
8/13/2013		<0.005	<0.005	<0.005			<0.005
8/14/2013					<0.005	<0.005	
2/4/2014		<0.005	<0.005		<0.005		<0.005
2/5/2014	<0.005			<0.005		<0.005	
8/4/2014				<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005	<0.005				<0.005
2/2/2015		<0.005	<0.005		<0.005		
2/3/2015				<0.005		<0.005	<0.005
2/4/2015	<0.005						
8/3/2015	<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015		<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016			<0.005				
2/22/2017	<0.005		<0.005				
2/23/2017		<0.005		<0.005			<0.005
2/24/2017					<0.005	<0.005	
2/19/2018	<0.005						<0.005
2/20/2018			<0.005		<0.005		
2/21/2018		<0.005		<0.005		<0.005	
8/6/2018	<0.005						<0.005
8/7/2018		<0.005		<0.005		<0.005	
8/8/2018			<0.005		<0.005		
2/25/2019	<0.005						<0.005
2/26/2019		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Silver (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
6/12/2019	<0.005		<0.005		<0.005		
6/13/2019		<0.005		<0.005		<0.005	<0.005
10/8/2019	<0.005						<0.005
10/9/2019		<0.005	<0.005			<0.005	
10/10/2019				<0.005	<0.005		
3/17/2020	<0.005	<0.005		<0.005			<0.005
3/18/2020			<0.005		<0.005	<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
9/23/2020						<0.005	<0.005
3/1/2021		<0.005	<0.005		<0.005		
3/2/2021	<0.005			<0.005		<0.005	
3/3/2021							<0.005
8/18/2021		<0.005	<0.005	<0.005	<0.005	0.00084 (J)	<0.005
8/20/2021	<0.005						
2/8/2022	<0.005	<0.005		<0.005	<0.005		<0.005
2/9/2022			<0.005			<0.005	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	29	410	140	87			
9/1/2016					150	990	360
11/28/2016	36		120				
11/29/2016		450					320
11/30/2016				76	50		
12/1/2016						1100	
2/22/2017	43		100				
2/23/2017		390		47			380
2/24/2017					110	850	
5/8/2017	60						
5/9/2017		280		41			
5/10/2017			80		70	1000	660
7/17/2017	63					830	
7/18/2017		200	57	44	50		880
10/16/2017	62					720	
10/17/2017		180	59		58		
10/18/2017				53			760
2/19/2018	64.6						718
2/20/2018			55.9		64.6		
2/21/2018		146		46.7		533	
8/6/2018	42.1						797
8/7/2018		100		38.8		784	
8/8/2018			81.1		79.5		
2/25/2019	42.1						763
2/26/2019		118	129	49.3	55.8	742	
6/12/2019	83.4		180		92.8		
6/13/2019		163		77.1		976	918
10/8/2019	128						664
10/9/2019		318	91.2			1180	
10/10/2019				48	68.7		
3/17/2020	98.6	145		95.2			303
3/18/2020			200		199	960	
9/22/2020	145	478	216	55.1	72.1		
9/23/2020						992	518
3/1/2021		525	244		177		
3/2/2021	156			95.5		906	
3/3/2021							476
8/18/2021		675	223	114	118	946	345
8/20/2021	121						
2/8/2022	107	687		93.5	146		260
2/9/2022			241			937	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					5	4.2	
6/2/2016	6.6						
6/6/2016			1.2	1.8			
6/7/2016		4.4					<1
7/25/2016						3.7	
7/26/2016	6.1				5.4		
7/27/2016		4.7	1.7	1.9			0.08 (J)
9/13/2016					2.9	5.2	
9/15/2016	6.1						
9/16/2016		4.8		1.7			
9/19/2016			1.8				0.08 (J)
11/1/2016					3.9		
11/2/2016	6.3						0.1 (J)
11/3/2016		5.3	0.69 (J)	1.9			
11/4/2016						5	
1/10/2017	5.9						
1/11/2017		5.2	<1	1.7	3.7		
1/13/2017							<1
1/16/2017						7.9	
3/1/2017			1.8	<1			
3/2/2017		5			4.6	7.4	
3/6/2017							<1
3/8/2017	7						
4/26/2017	7		1.6	1.9			<1
4/27/2017					5.2	7.4	
5/2/2017		5					
6/27/2017					5.9	6.4	
6/28/2017			<1	<1			
6/29/2017		5.2					<1
6/30/2017	6.5						
10/3/2017					6.6	5.9	
10/4/2017		5.3		1.7			<1
10/5/2017	7.9		1.6				
6/5/2018					6.4		
6/6/2018						4.4	0.049 (J)
6/7/2018			0.68 (J)				
6/8/2018	6.4						
6/11/2018		5.2		0.95 (J)			
9/25/2018		6.1	1	1.5			0.13 (J)
10/1/2018	6.8				5.6	4	
3/28/2019					8	4.3	
3/29/2019	7.3						
4/2/2019		5.1					
4/3/2019			0.82 (J)	1.3			0.12 (J)
9/24/2019					5.3	4.3	
9/25/2019	6.6	5.5					<1
9/26/2019			0.64 (J)	1			
3/18/2020	8.1					5.3	
3/19/2020					10		
3/24/2020		5.4	<1	0.99 (J)			<1
9/23/2020		5.1	0.53 (J)	1.1	8.1	3.4	
9/24/2020							<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	6.1						
3/2/2021	6						
3/3/2021		5.2	<1	1	9	4.4	<1
8/19/2021	6.7				8.9	4.9	
8/26/2021				1.2			
8/27/2021		5.3	0.59 (J)				<1
2/9/2022		4.8	0.51 (J)	1.1	9.3	5.1	<1
2/10/2022	6.2						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						12	
6/2/2016			1.3		5.8		
6/7/2016	5.2						
7/25/2016			1.2			8.4	
7/26/2016					6.7		
7/28/2016	5.1						
9/14/2016		9.4				8.6	
9/15/2016					6		
9/19/2016	4.8		1.2				
11/1/2016			1.3		4.9	8.9	
11/3/2016	5						
11/4/2016		13					
12/15/2016		1.8					
1/11/2017					4.5	8.6	
1/13/2017	4.3						
1/16/2017		11	<1				
2/21/2017			1.4				
3/1/2017						9.3	
3/2/2017					4.4		
3/3/2017		8.8					
3/6/2017	4.5						
4/26/2017	4.9		1.4		5.1	11	
4/28/2017		10					
5/26/2017		12					
6/28/2017		11			5.4	12	
6/29/2017	5.5						
6/30/2017			<1				
10/3/2017	5.8	7.9					
10/4/2017			1.4		6.2	12	
10/11/2017				20			
10/12/2017							17
11/20/2017				24			71
1/10/2018							66
1/11/2018				23			
2/19/2018							57.2
2/20/2018				20.6			
4/3/2018				24.5			49.4
6/5/2018	6.1						
6/7/2018		8.8			6.7		
6/8/2018						9.6	
6/11/2018			1.1				
6/28/2018				22			43.8
8/7/2018				20.7			40.5
9/24/2018				21.2			39.7
9/25/2018	7						
10/1/2018		9.1			7.1	9.1	
10/2/2018			1				
3/26/2019							34.3
3/27/2019				17.7			
3/29/2019		9					
4/1/2019			0.96 (J)		7.2	8.5	
4/2/2019	3.8						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	1	9.1					
9/25/2019			0.81 (J)		7	13.8	
10/9/2019				15			27.9
3/19/2020		12.4	1.6		9	12.9	
3/24/2020	3						25.2
3/25/2020				14.3			
9/23/2020		11.8			6.9	16.8	
9/24/2020	3.6		0.69 (J)	11.7			22.9
3/1/2021			0.88 (J)				
3/3/2021		10.6			7	9.6	
3/4/2021	4.5			12			21.5
8/19/2021			1		7.5		
8/26/2021				19.2			
8/27/2021		16.7				18.2	
9/1/2021	5						
9/3/2021							21.3
2/8/2022				14.6			17.9
2/9/2022	3.9	18			7.2	16	
2/11/2022			2.8				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8	20	1.9
7/26/2016		7.7	20	1.8
8/30/2016	160			
9/14/2016		7.5	19	1.8
11/2/2016		8.2	20	
11/4/2016				2
11/14/2016	150			
1/12/2017			19	1.9
1/13/2017		8.1		
2/24/2017	120			
3/6/2017		8		
3/7/2017			20	2.1
5/1/2017		8.4	20	
5/2/2017				2
5/8/2017	120			
6/27/2017			18	2.1
6/29/2017		9.2		
7/11/2017	110			
10/3/2017			16	2.3
10/5/2017		9.6		
10/10/2017	93			
4/2/2018	88.8			
6/6/2018			8.3	
6/7/2018		8.5		2
9/19/2018	75			
9/26/2018		10.2	7.9	2.3
3/27/2019	65.9			
4/3/2019		8.5	7	2.1
9/24/2019			5.5	2.4
9/25/2019		8.5		
10/8/2019	52.3			
3/17/2020	71.6			
3/24/2020			5.9	2.1
3/25/2020		8.8		
9/22/2020	51.5	8.2	5.5	2.1
3/1/2021	51.6			
3/2/2021			2.6	2.3
3/3/2021		7.8		
8/19/2021	52.6			
8/26/2021		8.5	6	2.4
2/8/2022	50.9			
2/10/2022			4.9	2.4
2/11/2022		7.7		

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	209	616	257	216			
9/1/2016					553	1400	578
11/28/2016	102		177				
11/29/2016		594					455
11/30/2016				177 (B)	247 (B)		
12/1/2016						1610 (B)	
2/22/2017	164		240				
2/23/2017		581		105			614
2/24/2017					414	1200	
5/8/2017	145						
5/9/2017		410		77			
5/10/2017			149		251	1360	955
7/17/2017	185					1340	
7/18/2017		322	122	89	179		1270
10/16/2017	218					1080	
10/17/2017		381	214		256		
10/18/2017				166			1150
2/19/2018	173						1070
2/20/2018			131		233		
2/21/2018		285		105		830	
8/6/2018	158						1260
8/7/2018		242		99		1180	
8/8/2018			166		292		
2/25/2019	92						1160
2/26/2019		69	293	109	226	1010	
6/12/2019	226		391		298		
6/13/2019		301		136		1410	1310
10/8/2019	276						1050
10/9/2019		526	372			1680	
10/10/2019				109	247		
3/17/2020	185	306		175			588
3/18/2020			351		703	1520	
9/22/2020	281	675	394	110	217		
9/23/2020						1000	820
3/1/2021		974	516		666		
3/2/2021	296 (D)			167		980	
3/3/2021							942
8/18/2021		1200	474	214	630	1660	682
8/20/2021	254						
2/8/2022	283	1310		231	648		549
2/9/2022			466			1440	

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					120	54	
6/2/2016	46						
6/6/2016			120	58			
6/7/2016		28					38
7/25/2016						48	
7/26/2016	54				94		
7/27/2016		74	94	35			74
9/13/2016					105	67	
9/15/2016	54						
9/16/2016		67		35			
9/19/2016			92				45
11/1/2016					44		
11/2/2016	71						53
11/3/2016		41	104	48			
11/4/2016						60	
1/10/2017	45						
1/11/2017		104	133	95	107		
1/13/2017							46
1/16/2017						65	
3/1/2017			119	79			
3/2/2017		77			98	61	
3/6/2017							164
3/8/2017	178						
4/26/2017	52		162	36			34
4/27/2017					116	31	
5/2/2017		142					
6/27/2017					89	42	
6/28/2017			98	45			
6/29/2017		53					68
6/30/2017	45						
10/3/2017					119	58	
10/4/2017		61		45			54
10/5/2017	40		104				
6/5/2018					127		
6/6/2018						96	79
6/7/2018			68				
6/8/2018	114						
6/11/2018		70		74			
9/25/2018		86	109	63			73
10/1/2018	50				117	60	
3/28/2019					87	87	
3/29/2019	63						
4/2/2019		72					
4/3/2019			89	63			57
9/24/2019					124	54	
9/25/2019	64	81					75
9/26/2019			126	72			
3/18/2020	57					35	
3/19/2020					116		
3/24/2020		71	91	59			76
9/23/2020		99	103	81	108	15	
9/24/2020							69

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	54						
3/2/2021	67						
3/3/2021		57	95	37	99	39	53
8/19/2021	54				105	44	
8/26/2021				31			
8/27/2021		93	112				67
2/9/2022		81	103	60	105	57	72
2/10/2022	56						

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						150	
6/2/2016			36		130		
6/7/2016	60						
7/25/2016			50			135	
7/26/2016					141		
7/28/2016	81						
9/14/2016		152				127	
9/15/2016					153		
9/19/2016	68		35				
11/1/2016			<25		92	75	
11/3/2016	61						
11/4/2016		148					
12/15/2016		191					
1/11/2017					159	148	
1/13/2017	76						
1/16/2017		180	47				
2/21/2017			<25				
3/1/2017						182	
3/2/2017					117		
3/3/2017		156					
3/6/2017	167						
4/26/2017	50		55		181	92	
4/28/2017		130					
5/26/2017		223					
6/28/2017		166			169	126	
6/29/2017	94						
6/30/2017			42				
10/3/2017	149	153					
10/4/2017			31		141	147	
10/11/2017				68			
10/12/2017							74
11/20/2017				139			179
1/10/2018							140
1/11/2018				153			
2/19/2018							119
2/20/2018				87			
4/3/2018				85			106
6/5/2018	109						
6/7/2018		146			95		
6/8/2018						158	
6/11/2018			59				
6/28/2018				88			112
8/7/2018				89			103
9/24/2018				82			107
9/25/2018	122						
10/1/2018		155			165	138	
10/2/2018			57				
3/26/2019							90
3/27/2019				75			
3/29/2019		150					
4/1/2019			54		149	19 (J)	
4/2/2019	134						

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	157	146					
9/25/2019			51		157	159	
10/9/2019				119			98
3/19/2020		148	47		146	148	
3/24/2020	117						84
3/25/2020				158			
9/23/2020		161			157	155	
9/24/2020	113		51	170			77
3/1/2021			23				
3/3/2021		138			137	111	
3/4/2021	110			168			57
8/19/2021			50		144		
8/26/2021				249			
8/27/2021		150				155	
9/1/2021	137						
9/3/2021							88
2/8/2022				248			93
2/9/2022	131	156			154	145	
2/11/2022			66				

Time Series

Constituent: TDS (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		96	160	66
7/26/2016		92	177	78
8/30/2016	319			
9/14/2016		102	187	73
11/2/2016		115	181	
11/4/2016				75
11/14/2016	280			
1/12/2017			202	86
1/13/2017		67		
2/24/2017	162			
3/6/2017		159		
3/7/2017			257	108
5/1/2017		107	165	
5/2/2017				103
5/8/2017	194			
6/27/2017			189	73
6/29/2017		79		
7/11/2017	193			
10/3/2017			170	89
10/5/2017		95		
10/10/2017	175			
4/2/2018	192			
6/6/2018			151	
6/7/2018		90		142
9/19/2018	186			
9/26/2018		116	144	86
3/27/2019	170			
4/3/2019		111	142	83
9/24/2019			129	79
9/25/2019		117		
10/8/2019	172			
3/17/2020	165			
3/24/2020			139	68
3/25/2020		146		
9/22/2020	141	83	104	75
3/1/2021	145			
3/2/2021			52	67
3/3/2021		80		
8/19/2021	134			
8/26/2021		93	123	86
2/8/2022	151			
2/10/2022			127	77
2/11/2022		102		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.001						
9/11/2007	<0.001						
3/20/2008	<0.001						
8/27/2008	<0.001						
3/3/2009	<0.001						
9/9/2009							<0.001
11/18/2009	<0.001						<0.001
1/5/2010							<0.001
3/3/2010	<0.001						<0.001
9/7/2010							<0.001
9/8/2010	<0.001						
11/22/2010			<0.001		<0.001		
1/4/2011			<0.001		<0.001		
2/17/2011			<0.001		<0.001		
3/10/2011	<0.001						<0.001
3/11/2011			<0.001		<0.001		
3/28/2011			<0.001		<0.001		
9/7/2011			<0.001	<0.001	<0.001	<0.001	
9/8/2011	<0.001	<0.001					<0.001
3/4/2012					<0.001		
3/5/2012	<0.001	<0.001		<0.001		<0.001	<0.001
3/6/2012			<0.001				
9/5/2012		<0.001		<0.001		<0.001	<0.001
9/10/2012	<0.001				<0.001		
9/11/2012			<0.001				
2/5/2013		<0.001				<0.001	<0.001
2/6/2013	<0.001		<0.001	<0.001	<0.001		
8/12/2013	<0.001						
8/13/2013		<0.001	<0.001	<0.001			<0.001
8/14/2013					<0.001	<0.001	
2/4/2014		<0.001	<0.001		<0.001		<0.001
2/5/2014	<0.001			<0.001		<0.001	
8/4/2014				<0.001	<0.001	<0.001	
8/5/2014	<0.001	<0.001					<0.001
2/2/2015		<0.001	<0.001		<0.001		
2/3/2015				<0.001		<0.001	<0.001
2/4/2015	<0.001						
2/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/17/2016			7E-05 (J)				
8/31/2016	<0.001	<0.001	<0.001	<0.001			
9/1/2016					<0.001	<0.001	<0.001
11/28/2016	<0.001		<0.001				
11/29/2016		<0.001					<0.001
11/30/2016				<0.001	<0.001		
12/1/2016						<0.001	
2/22/2017	<0.001		<0.001				
2/23/2017		<0.001		<0.001			<0.001
2/24/2017					<0.001	<0.001	
5/8/2017	6E-05 (J)						
5/9/2017		<0.001		<0.001			
5/10/2017			<0.001		<0.001	<0.001	<0.001
7/17/2017	6E-05 (J)					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
7/18/2017		<0.001	<0.001	<0.001	<0.001		<0.001
10/16/2017	7E-05 (J)					<0.001	
10/17/2017		<0.001	<0.001		<0.001		
10/18/2017				<0.001			<0.001
2/19/2018	<0.001						<0.001
2/20/2018			<0.001		<0.001		
2/21/2018		<0.001		<0.001		<0.001	
8/6/2018	<0.001						<0.001
8/7/2018		<0.001		<0.001		<0.001	
8/8/2018			<0.001		<0.001		
2/25/2019	<0.001						<0.001
2/26/2019		<0.001	<0.001	<0.001	<0.001	<0.001	
6/12/2019	<0.001		<0.001		<0.001		
6/13/2019		<0.001		<0.001		<0.001	<0.001
8/19/2019	5.5E-05 (J)				<0.001		
8/20/2019		<0.001	<0.001				<0.001
8/21/2019				<0.001		5.3E-05 (J)	
10/8/2019	<0.001						<0.001
10/9/2019		<0.001	<0.001			<0.001	
10/10/2019				<0.001	<0.001		
3/17/2020	<0.001	<0.001		<0.001			<0.001
3/18/2020			<0.001		<0.001	<0.001	
8/26/2020	<0.001						
8/27/2020		<0.001				<0.001	<0.001
8/28/2020			<0.001	<0.001	<0.001		
9/22/2020	<0.001	<0.001	<0.001	<0.001	<0.001		
9/23/2020						<0.001	<0.001
3/1/2021		<0.001	<0.001		<0.001		
3/2/2021	<0.001			<0.001		<0.001	
3/3/2021							<0.001
8/18/2021		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021	<0.001						
2/8/2022	<0.001	<0.001		<0.001	<0.001		<0.001
2/9/2022			<0.001			<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.001	<0.001	
6/2/2016	<0.001						
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001					<0.001
7/25/2016						<0.001	
7/26/2016	<0.001				<0.001		
7/27/2016		<0.001	<0.001	<0.001			<0.001
9/13/2016					<0.001	<0.001	
9/15/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001				<0.001
11/1/2016					<0.001		
11/2/2016	<0.001						<0.001
11/3/2016		<0.001	<0.001	<0.001			
11/4/2016						<0.001	
1/10/2017	<0.001						
1/11/2017		<0.001	<0.001	<0.001	<0.001		
1/13/2017							<0.001
1/16/2017						<0.001	
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001			<0.001	<0.001	
3/6/2017							<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	
5/2/2017		<0.001					
6/27/2017					<0.001	<0.001	
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001					<0.001
6/30/2017	<0.001						
3/27/2018	<0.001					<0.001	
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001		<0.001
2/26/2019	<0.001						
2/27/2019					<0.001	<0.001	
3/5/2019		<0.001		<0.001			<0.001
3/6/2019			<0.001				
4/2/2019		<0.001					
4/3/2019			<0.001	<0.001			<0.001
9/25/2019		<0.001					<0.001
9/26/2019			<0.001	<0.001			
2/10/2020					<0.001	5.5E-05 (J)	
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020	8.9E-05 (J)						<0.001
3/18/2020	<0.001					<0.001	
3/19/2020					<0.001		
3/24/2020		<0.001	<0.001	<0.001			<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
9/24/2020							<0.001
9/25/2020	<0.001						
2/9/2021			<0.001	<0.001			<0.001
2/10/2021	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.001	
6/2/2016			<0.001		<0.001		
6/7/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016					0.0001 (J)		
7/28/2016	<0.001						
9/14/2016		<0.001				<0.001	
9/15/2016					<0.001		
9/19/2016	<0.001		<0.001				
11/1/2016			<0.001		<0.001	<0.001	
11/3/2016	<0.001						
11/4/2016		<0.001					
12/15/2016		<0.001					
1/11/2017					<0.001	<0.001	
1/13/2017	<0.001						
1/16/2017		<0.001	<0.001				
2/21/2017			<0.001				
3/1/2017						<0.001	
3/2/2017					<0.001		
3/3/2017		<0.001					
3/6/2017	<0.001						
4/26/2017	<0.001		<0.001		<0.001	<0.001	
4/28/2017		<0.001					
5/26/2017		<0.001					
6/28/2017		<0.001			<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017			<0.001				
10/11/2017				<0.001			
10/12/2017							<0.001
11/20/2017				<0.001			<0.001
1/10/2018							<0.001
1/11/2018				<0.001			
2/19/2018							<0.001
2/20/2018				<0.001			
3/27/2018			<0.001				
3/28/2018		<0.001			<0.001	<0.001	
3/29/2018	<0.001						
4/3/2018				<0.001			<0.001
6/28/2018				<0.001			<0.001
8/7/2018				<0.001			<0.001
9/24/2018				<0.001			<0.001
9/25/2018	<0.001						
2/26/2019			<0.001				
2/27/2019		<0.001			<0.001	<0.001	
3/5/2019	<0.001						
4/2/2019	<0.001						
8/21/2019				<0.001			<0.001
9/24/2019	<0.001						
2/11/2020		<0.001				<0.001	
2/12/2020	<0.001		<0.001	<0.001	<0.001		<0.001
3/19/2020		<0.001	<0.001		<0.001	<0.001	
3/24/2020	<0.001						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/25/2020				<0.001			
9/23/2020		<0.001			<0.001	0.00016 (J)	
9/24/2020	<0.001		<0.001	<0.001			<0.001
2/9/2021	<0.001						
2/10/2021		<0.001		<0.001	<0.001	<0.001	<0.001
2/11/2021			<0.001				
2/8/2022				<0.001			<0.001
2/9/2022	<0.001	<0.001			<0.001	<0.001	
2/11/2022			<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.001	<0.001	<0.001
7/26/2016		<0.001	<0.001	<0.001
8/30/2016	<0.001			
9/14/2016		<0.001	<0.001	<0.001
11/2/2016		<0.001	<0.001	
11/4/2016				<0.001
11/14/2016	<0.001			
1/12/2017			<0.001	<0.001
1/13/2017		<0.001		
2/24/2017	<0.001			
3/6/2017		<0.001		
3/7/2017			<0.001	<0.001
5/1/2017		<0.001	<0.001	
5/2/2017				<0.001
5/8/2017	<0.001			
6/27/2017			<0.001	<0.001
6/29/2017		<0.001		
7/11/2017	<0.001			
10/10/2017	<0.001			
3/29/2018		<0.001	<0.001	<0.001
4/2/2018	<0.001			
9/19/2018	<0.001			
3/4/2019		<0.001	<0.001	<0.001
4/3/2019		<0.001	<0.001	<0.001
8/20/2019	5.8E-05 (J)			
9/24/2019			<0.001	<0.001
9/25/2019		<0.001		
10/8/2019	8.4E-05 (J)			
2/12/2020		<0.001	<0.001	<0.001
3/17/2020	<0.001			
3/24/2020			<0.001	<0.001
3/25/2020		<0.001		
8/27/2020	<0.001			
9/22/2020		<0.001	<0.001	<0.001
2/8/2021			<0.001	<0.001
2/9/2021		<0.001		
8/19/2021	<0.001			
2/8/2022	<0.001			
2/10/2022			<0.001	<0.001
2/11/2022		<0.001		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	0.0055						
9/11/2007	0.004						
3/20/2008	<0.01						
8/27/2008	0.0029						
3/3/2009	<0.01						
9/9/2009							<0.01
11/18/2009	<0.01						<0.01
1/5/2010							<0.01
3/3/2010	<0.01						<0.01
9/7/2010							<0.01
9/8/2010	<0.01						
11/22/2010			<0.01		<0.01		
1/4/2011			<0.01		<0.01		
2/17/2011			<0.01		<0.01		
3/10/2011	<0.01						<0.01
3/11/2011			<0.01		<0.01		
3/28/2011			<0.01		<0.01		
9/7/2011			<0.01	<0.01	<0.01	<0.01	
9/8/2011	<0.01	<0.01					<0.01
3/4/2012					<0.01		
3/5/2012	<0.01	<0.01		<0.01		<0.01	<0.01
3/6/2012			<0.01				
9/5/2012		<0.01		<0.01		<0.01	<0.01
9/10/2012	<0.01				<0.01		
9/11/2012			<0.01				
2/5/2013		<0.01				<0.01	<0.01
2/6/2013	<0.01		<0.01	<0.01	<0.01		
8/12/2013	<0.01						
8/13/2013		<0.01	<0.01	<0.01			<0.01
8/14/2013					<0.01	<0.01	
2/4/2014		<0.01	<0.01		<0.01		<0.01
2/5/2014	<0.01			<0.01		<0.01	
8/4/2014				<0.01	<0.01	0.0022 (J)	
8/5/2014	<0.01	0.0011 (J)	<0.01				0.0015 (J)
2/2/2015		0.0051	<0.01		<0.01		
2/3/2015				<0.01		<0.01	0.00093 (J)
2/4/2015	<0.01						
8/3/2015	0.0013 (J)			<0.01 (D)	<0.01 (D)	0.0019 (JD)	
8/4/2015		<0.01 (D)	<0.01				0.0036 (J)
2/16/2016	<0.01	0.00075 (J)		<0.01	<0.01	0.0011 (J)	0.0011 (J)
2/17/2016			<0.01				
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018	<0.01						0.0029 (J)
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
2/25/2019	<0.01						<0.01
2/26/2019		<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019	0.0032 (J)		0.00079 (J)		0.00088 (J)		
6/13/2019		<0.01		0.0021 (J)		<0.01	<0.01
10/8/2019	<0.01						<0.01
10/9/2019		<0.01	<0.01			<0.01	
10/10/2019				0.0011 (J)	<0.01		
3/17/2020	<0.01	<0.01		<0.01			0.00098 (J)
3/18/2020			<0.01		<0.01	<0.01	
9/22/2020	<0.01	<0.01	<0.01	<0.01	<0.01		
9/23/2020						<0.01	<0.01
3/1/2021		<0.01	<0.01		<0.01		
3/2/2021	<0.01			<0.01		<0.01	
3/3/2021							<0.01
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
9/9/1998	0.01						
9/20/1999	0.017						
9/12/2001	0.017						
9/3/2002	0.015						
7/29/2003	0.022						
12/5/2003	0.0087						
9/22/2004	<0.01						
5/1/2007		0.0081					
9/11/2007		0.0049					
3/20/2008		0.004					
8/27/2008		0.0042					
3/3/2009		0.0058					
11/18/2009		0.0038					
3/3/2010		0.0085					
9/8/2010		0.0065					
11/22/2010				0.0047		<0.01	
1/4/2011				0.0038		<0.01	
2/17/2011				0.0074		<0.01	
3/10/2011		0.0029					
3/11/2011				0.0038		0.025 (o)	
3/28/2011				<0.01		<0.01	
9/7/2011				0.0059	0.0064	<0.01	0.0064
9/8/2011		0.004	0.0048				
3/4/2012						<0.01	
3/5/2012		0.0059	0.0038		0.0043		0.0034
3/6/2012				0.0032			
9/5/2012			0.0051		0.0069		0.0035
9/10/2012		0.0052				<0.01	
9/11/2012				0.0029			
2/5/2013			<0.01				0.0027
2/6/2013		0.0038		0.0036	<0.01	<0.01	
8/12/2013		0.0075					
8/13/2013			<0.01	0.0066	0.011		
8/14/2013						<0.01	0.0041
2/4/2014			0.0037	0.011		0.0034	
2/5/2014		0.018 (o)			0.026 (o)		0.011
8/4/2014					0.012	0.0013 (J)	0.011
8/5/2014		0.0037	0.0019 (J)	0.0032			
2/2/2015			0.0051	0.0031		<0.01	
2/3/2015					0.0061		0.0044
2/4/2015		0.0057					
8/3/2015		0.0043			0.0037 (D)	<0.01 (D)	0.011 (D)
8/4/2015			0.0017 (JD)	0.0017 (J)			
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014
2/17/2016				0.0034			
2/22/2017		0.0042 (J)		0.0024 (J)			
2/23/2017			0.0024 (J)		0.0031 (J)		
2/24/2017						0.0028 (J)	0.0043 (J)
5/8/2017		0.0025 (J)					
5/9/2017			0.0016 (J)		0.0025 (J)		
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)
7/17/2017		0.0032 (J)					0.0055 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)	
2/19/2018		<0.01					
2/20/2018				<0.01		<0.01	
2/21/2018			<0.01		0.003 (J)		0.0102
8/6/2018		0.0037 (J)					
8/7/2018			0.0044 (J)		0.0036 (J)		0.015
8/8/2018				0.0021 (J)		0.0033 (J)	
2/25/2019		0.013					
2/26/2019			0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015
6/12/2019		<0.01		0.0019 (J)		<0.01	
6/13/2019			<0.01		0.0069 (J)		0.015
10/8/2019		0.0078 (J)					
10/9/2019			0.0078 (J)	0.0069 (J)			0.025
10/10/2019					0.0079 (J)	0.006 (J)	
1/21/2020							0.015
3/17/2020		<0.01	<0.01		<0.01		
3/18/2020				<0.01		<0.01	0.023
9/22/2020		0.033	0.0029 (J)	0.003 (J)	0.0036 (J)	<0.01	
9/23/2020							0.018
3/1/2021			<0.01	<0.01		<0.01	
3/2/2021		0.031			0.0069 (J)		0.022
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026
8/20/2021		0.014					
2/8/2022		0.014	<0.01		0.0098 (J)	<0.01	
2/9/2022				<0.01			0.025

Time Series

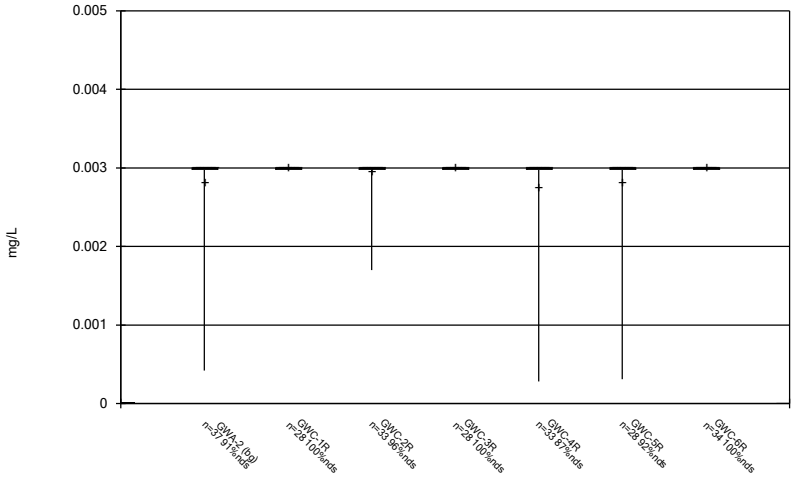
Constituent: Zinc (mg/L) Analysis Run 4/28/2022 8:17 AM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R
9/9/2009	0.003
11/18/2009	<0.01
1/5/2010	0.0027
3/3/2010	<0.01
9/7/2010	<0.01
3/10/2011	<0.01
9/8/2011	<0.01
3/5/2012	0.0053
9/5/2012	0.0033
2/5/2013	<0.01
8/13/2013	0.0038
2/4/2014	0.0046
8/5/2014	0.0019 (J)
2/3/2015	0.0026
8/4/2015	0.0035
2/16/2016	0.002 (J)
2/23/2017	0.0038 (J)
5/10/2017	0.0027 (J)
7/18/2017	0.0024 (J)
2/19/2018	<0.01
8/6/2018	0.004 (J)
2/25/2019	0.0028 (J)
6/13/2019	<0.01
10/8/2019	0.006 (J)
3/17/2020	<0.01
9/23/2020	<0.01
3/3/2021	<0.01
8/18/2021	<0.01
2/8/2022	<0.01

FIGURE B.

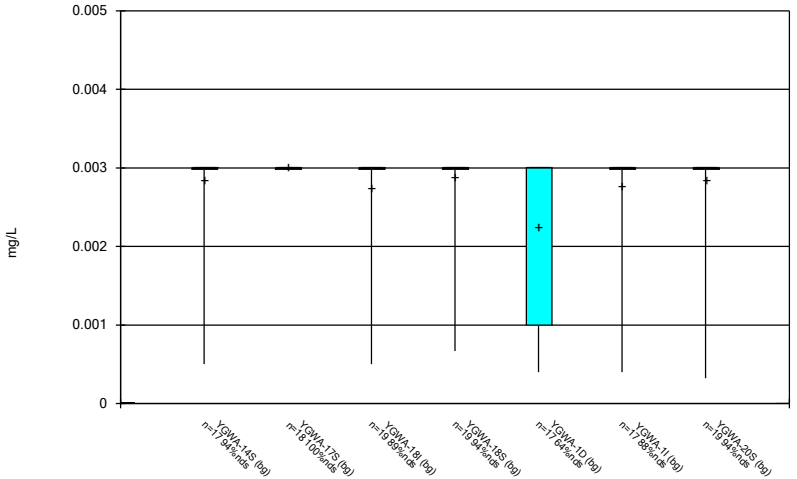
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/28/2022 8:17 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

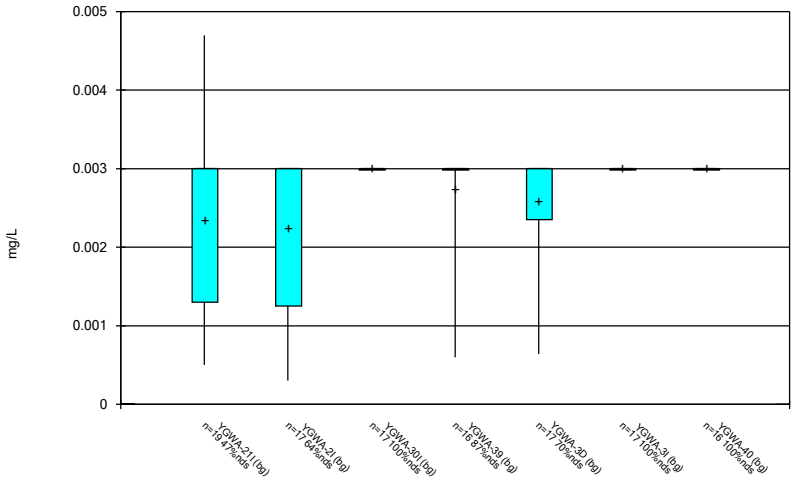
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/28/2022 8:17 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

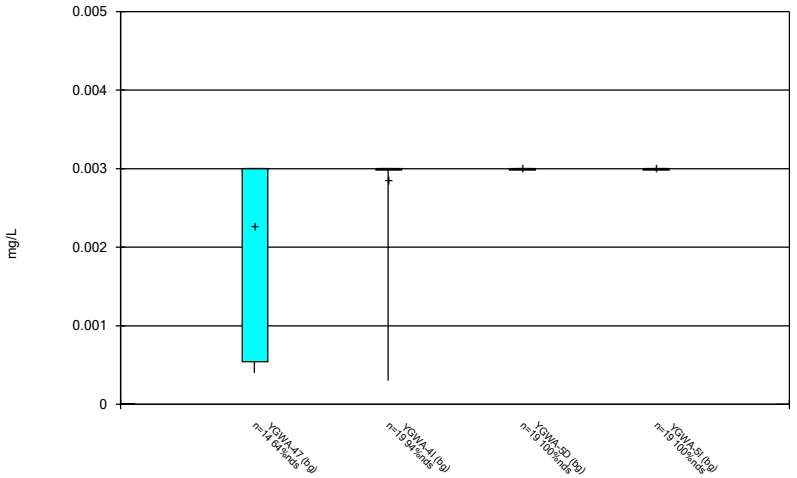
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/28/2022 8:17 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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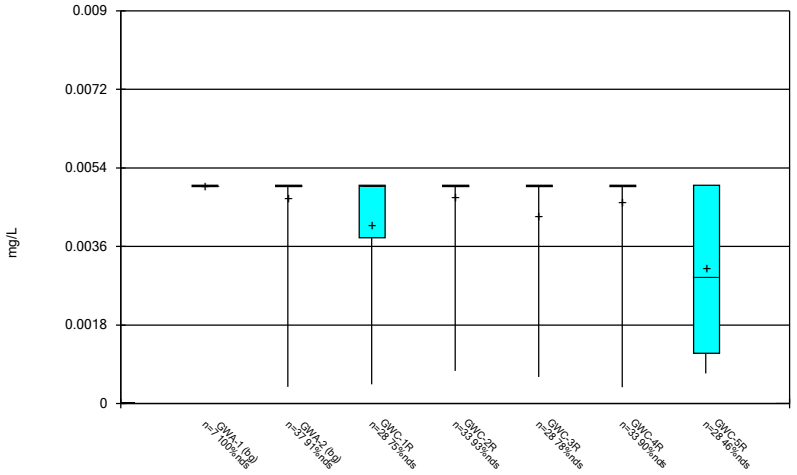
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

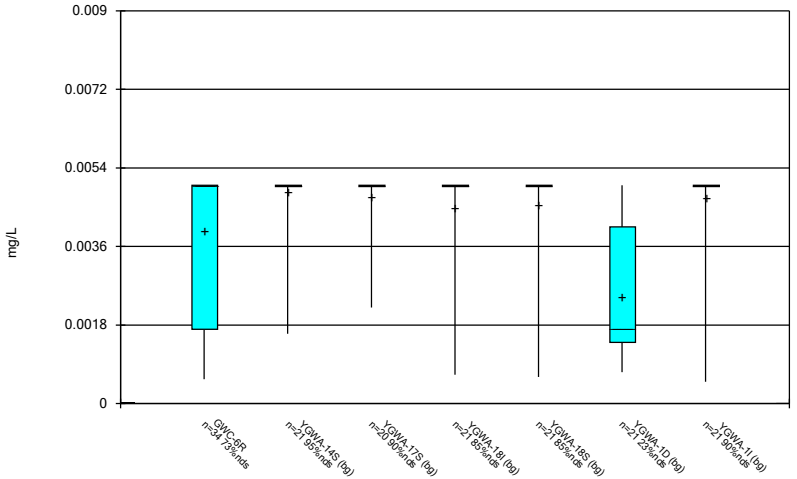
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

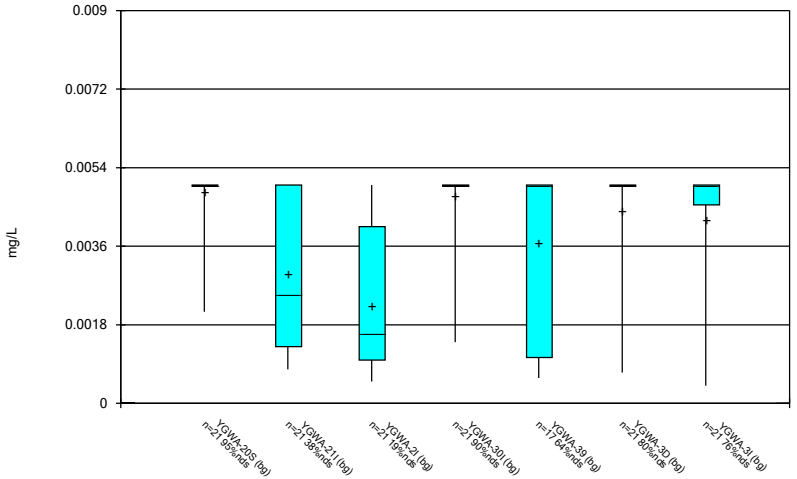
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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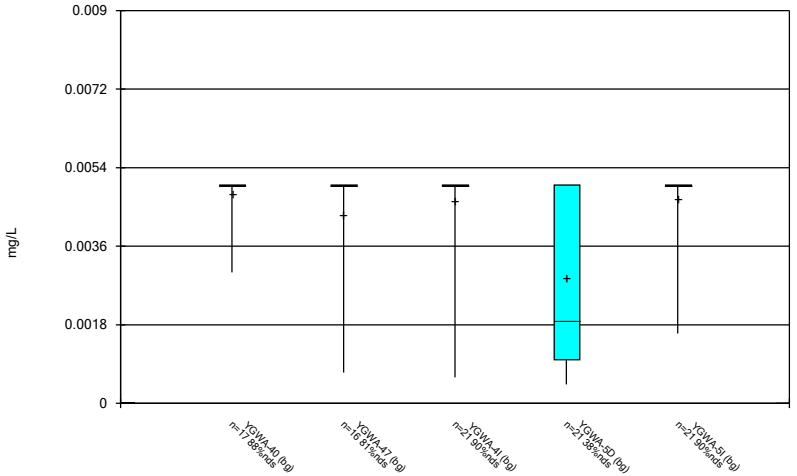
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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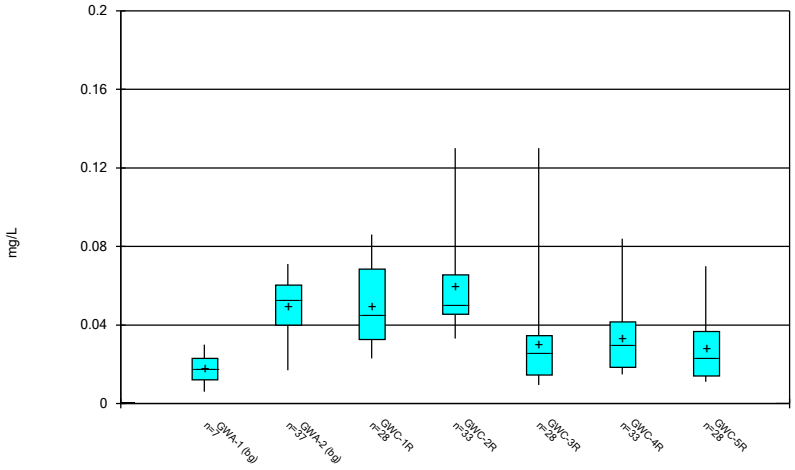
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

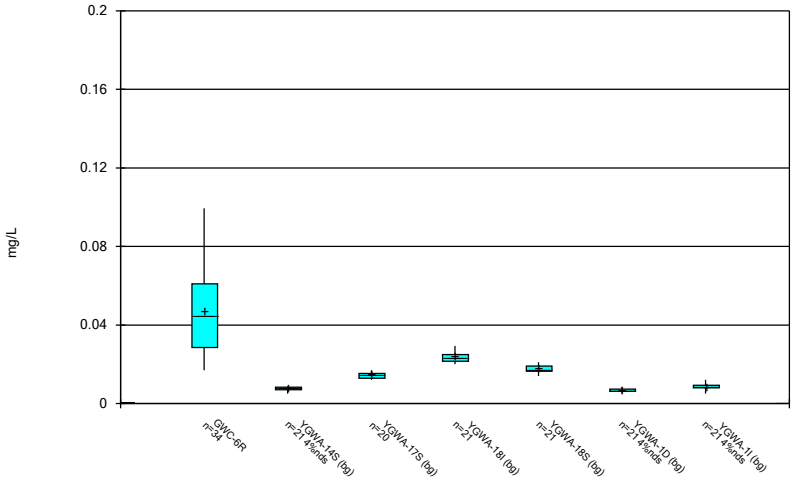
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

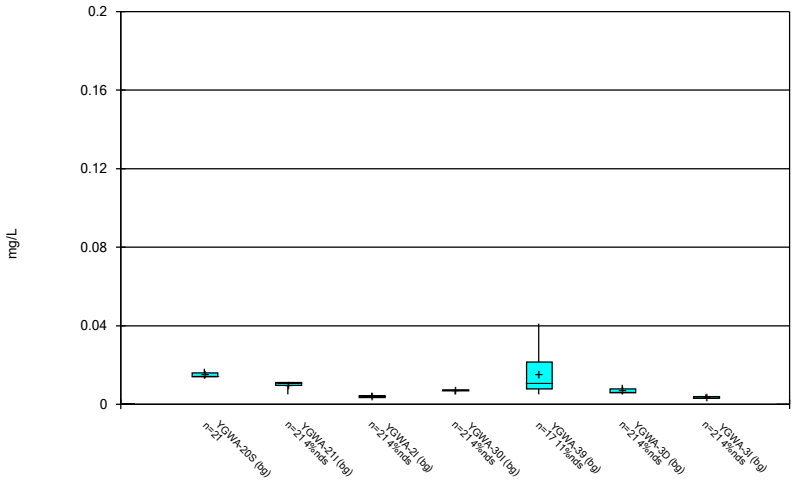
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

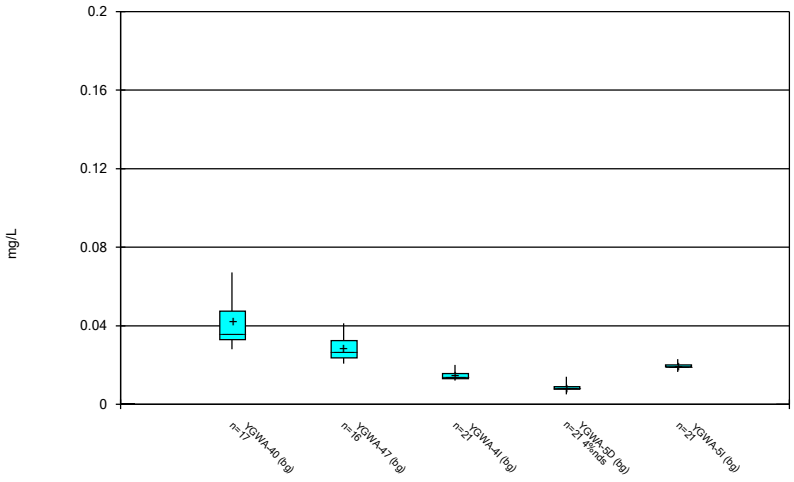
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

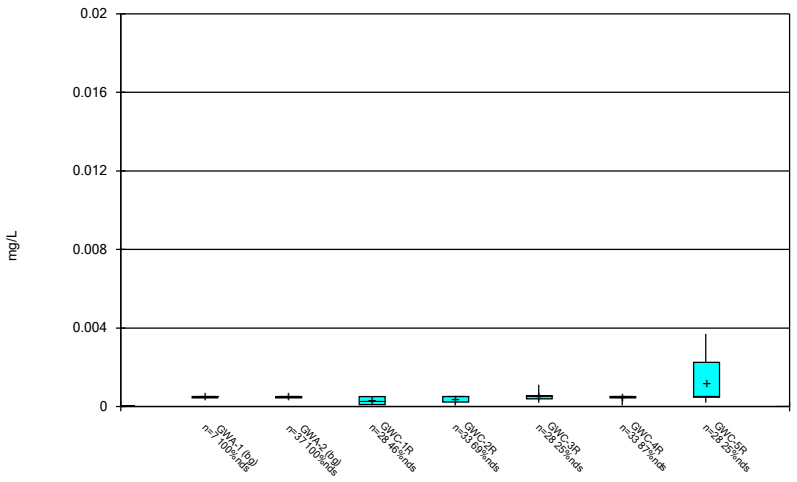
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

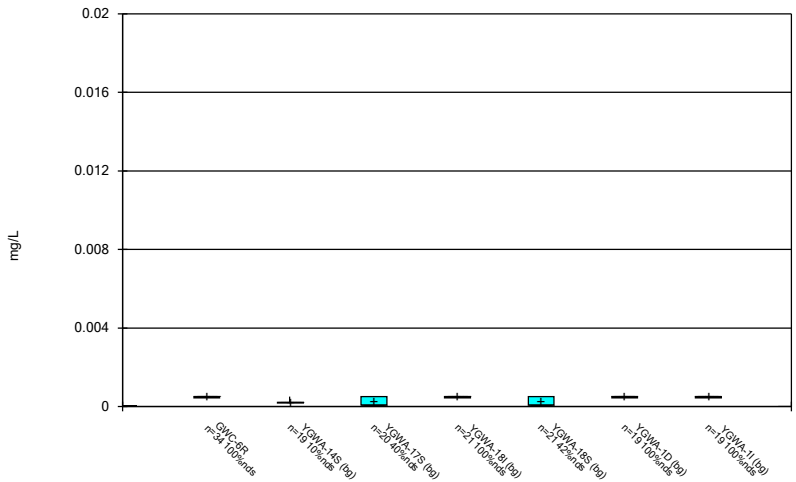
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

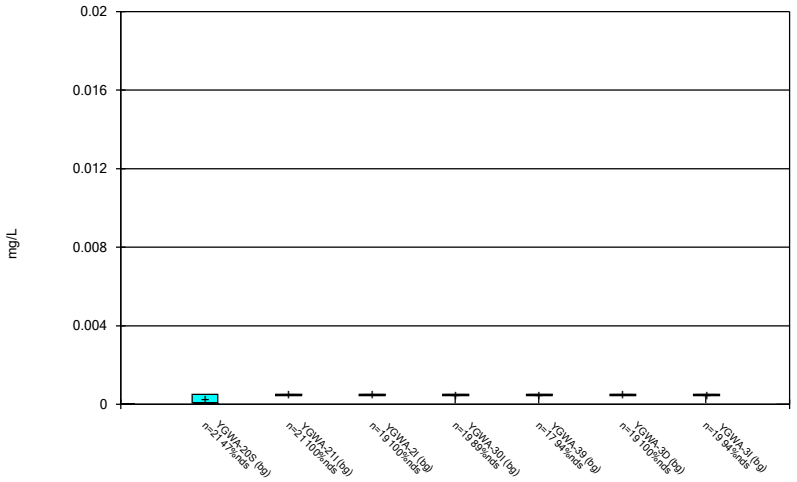
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

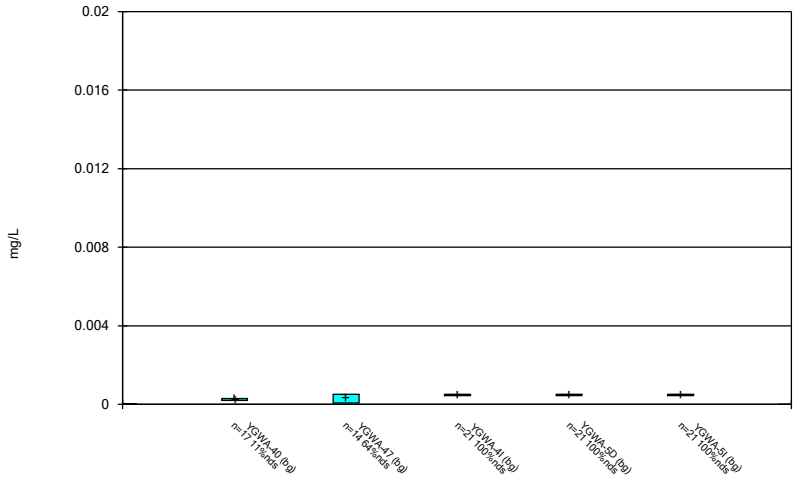
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

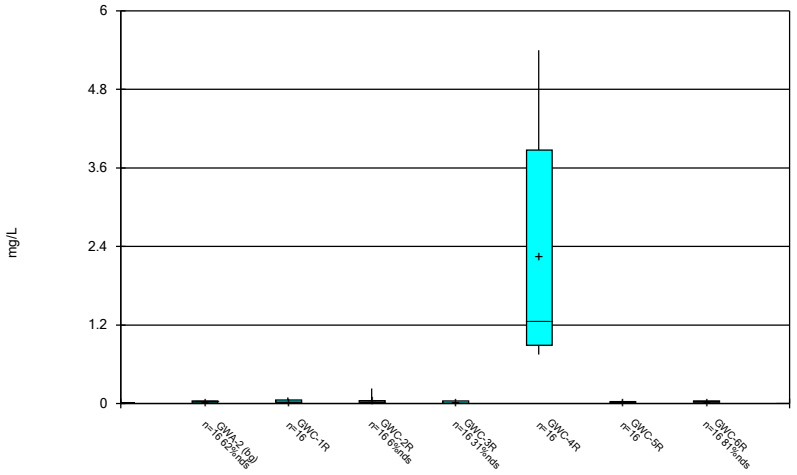
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

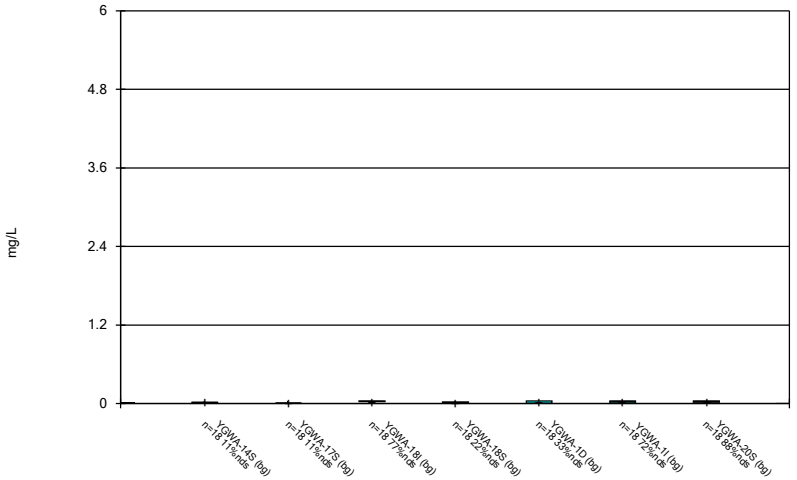
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

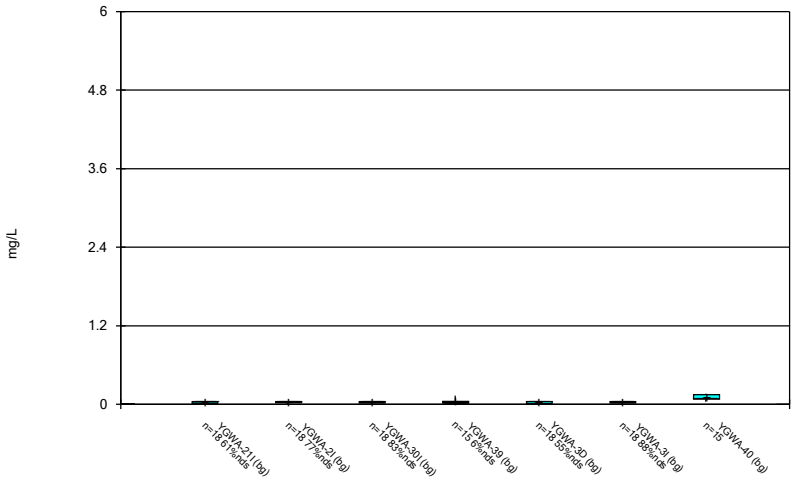
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

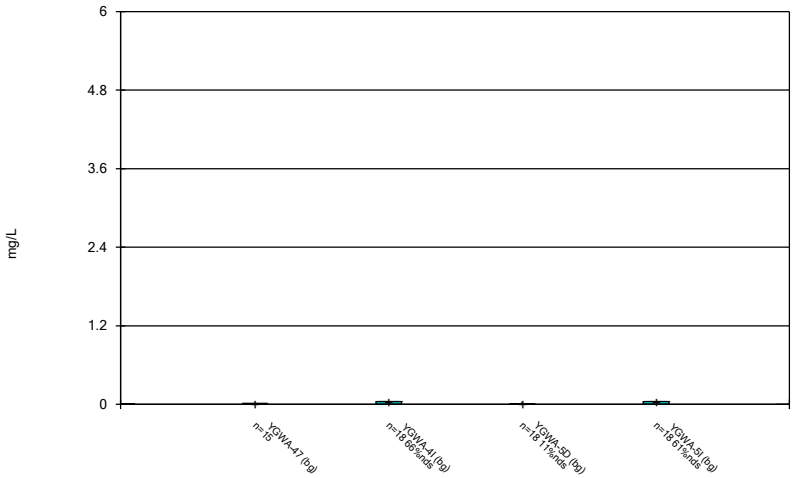
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

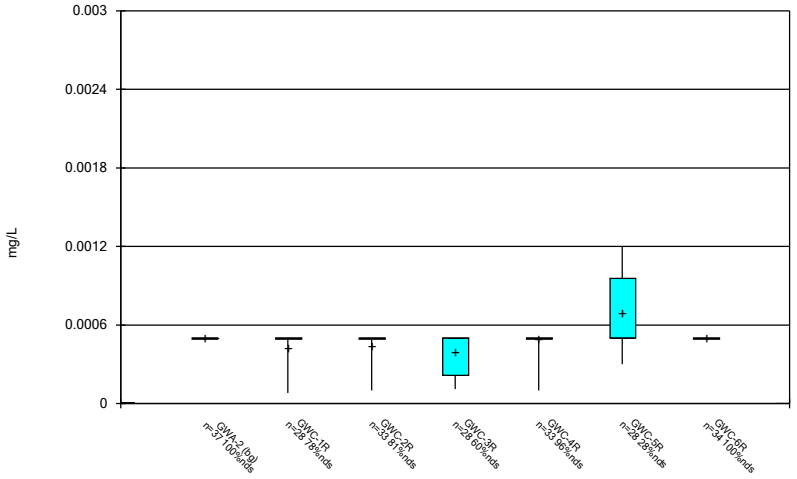
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Boron Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

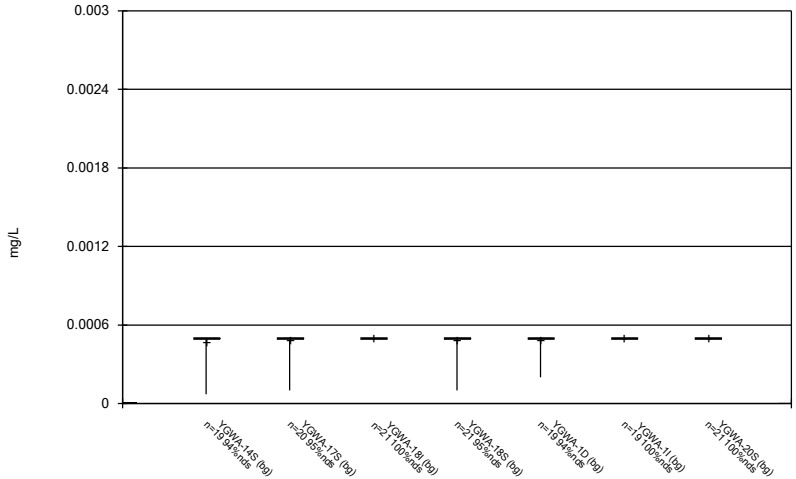
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

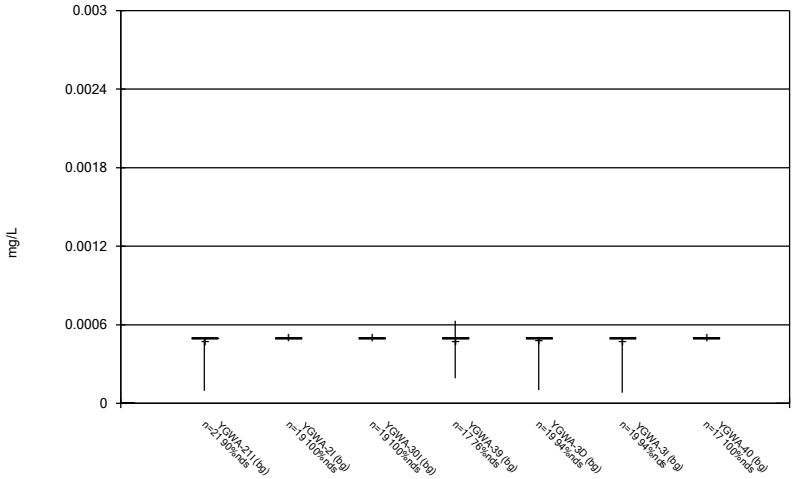
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

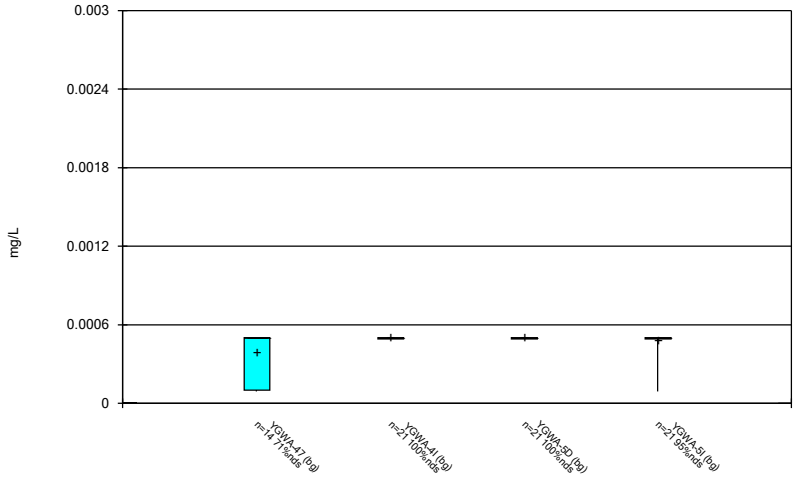
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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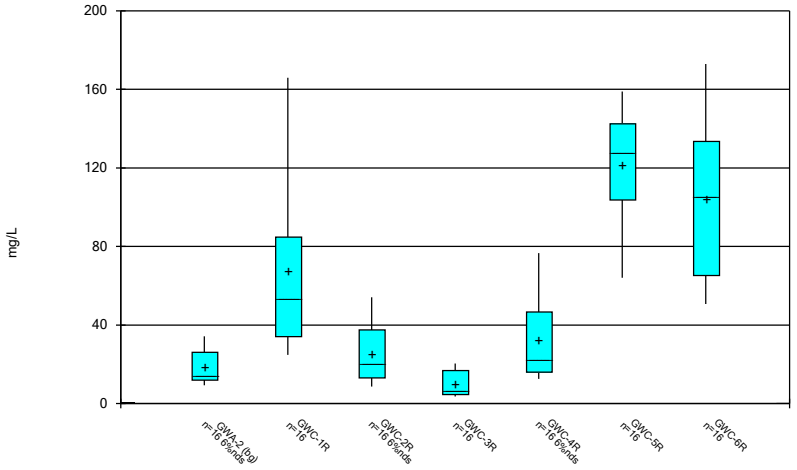
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

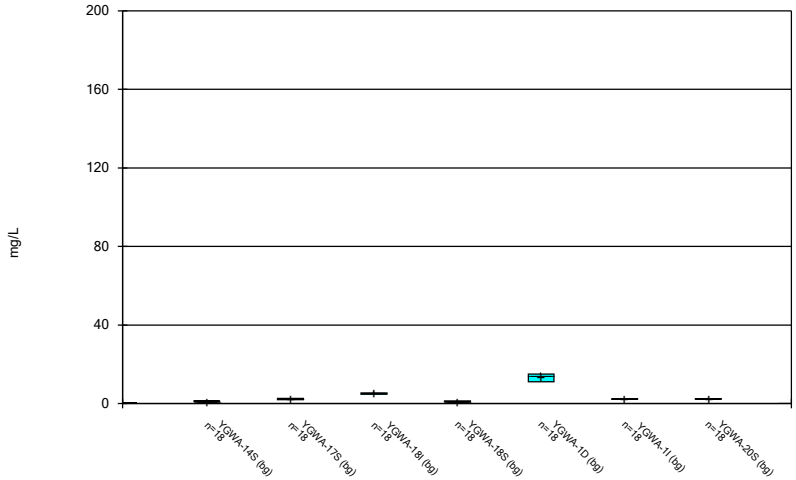
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

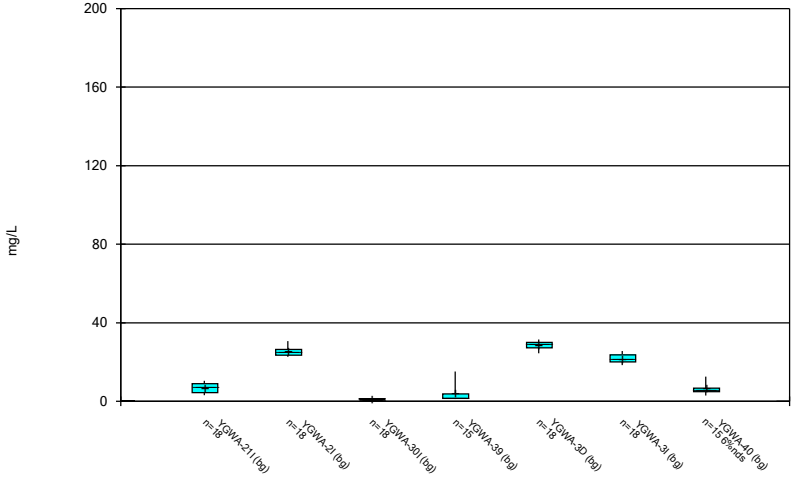
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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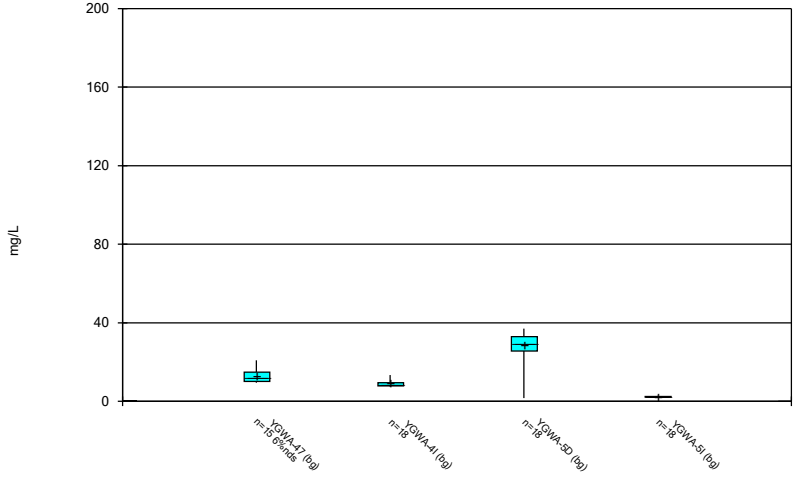
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

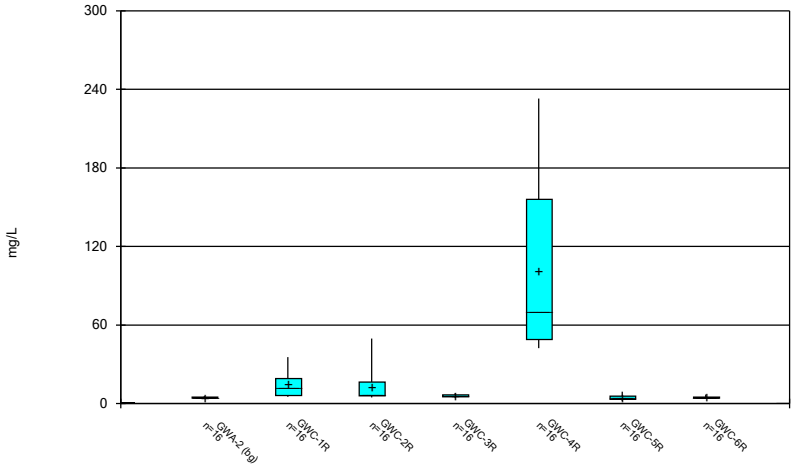
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

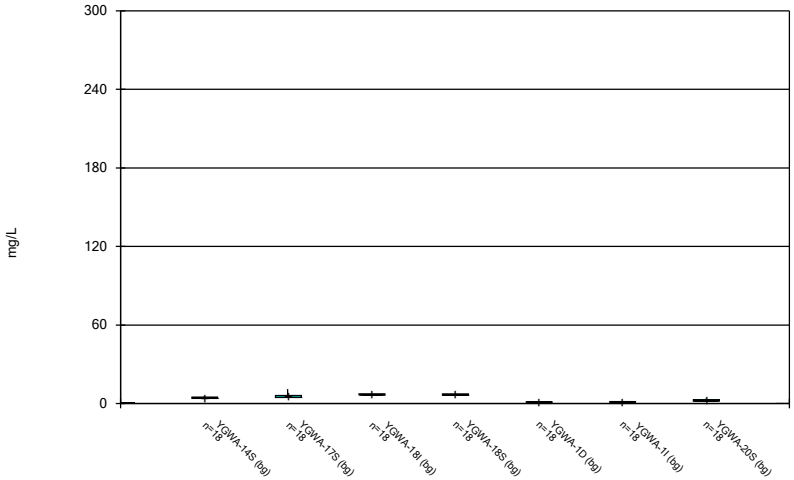
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

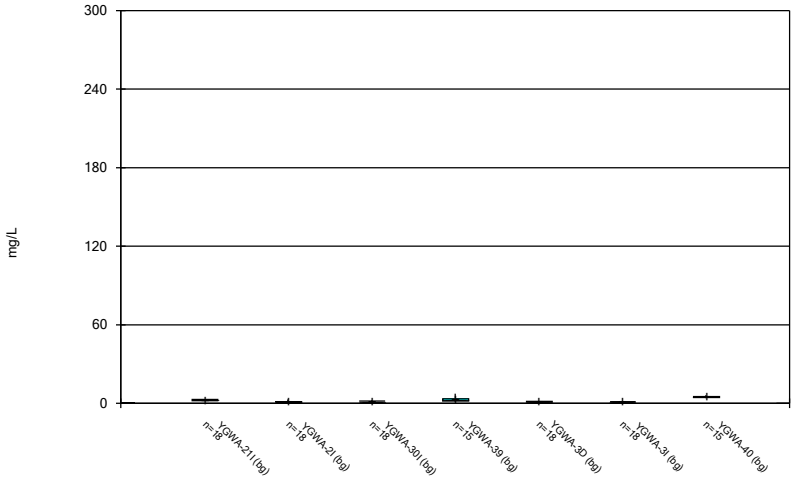
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

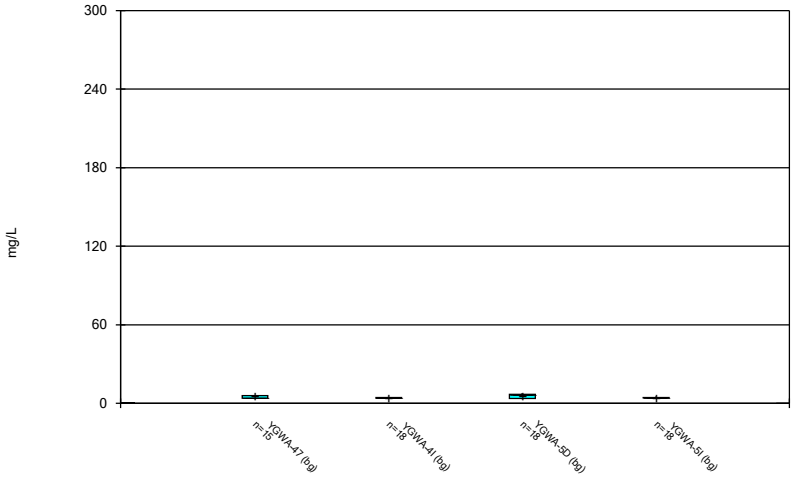
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

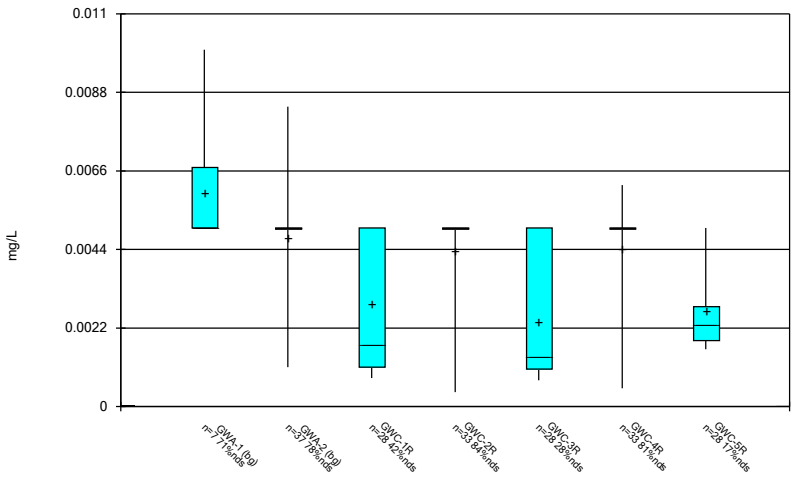
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

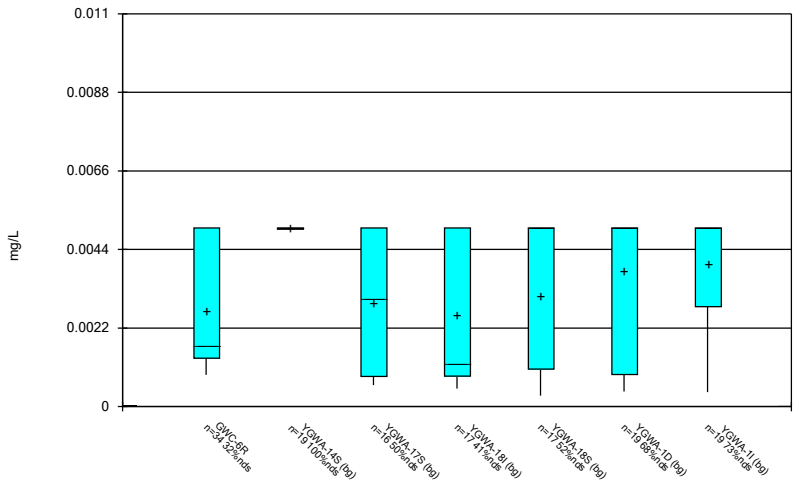
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

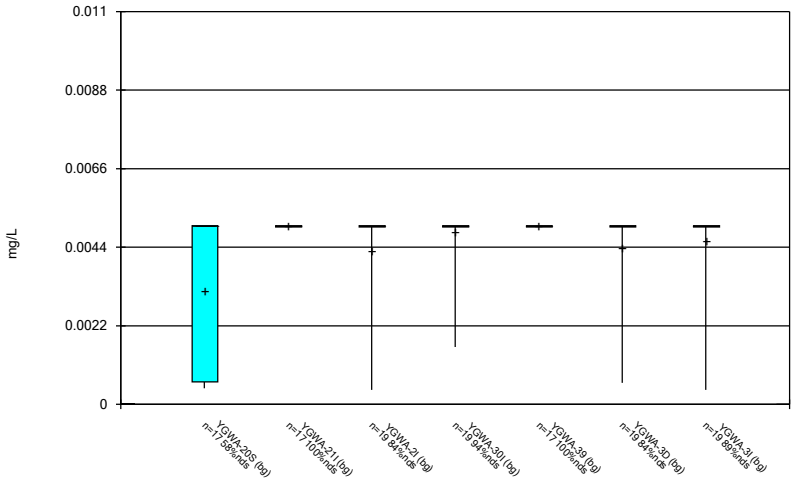
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

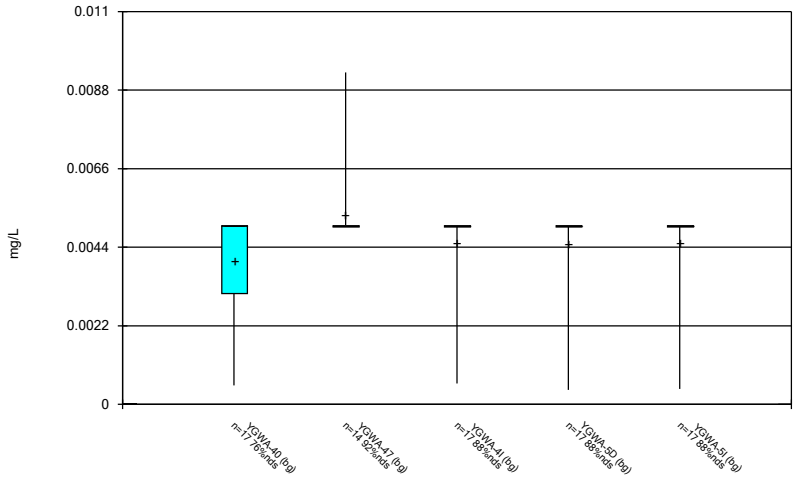
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

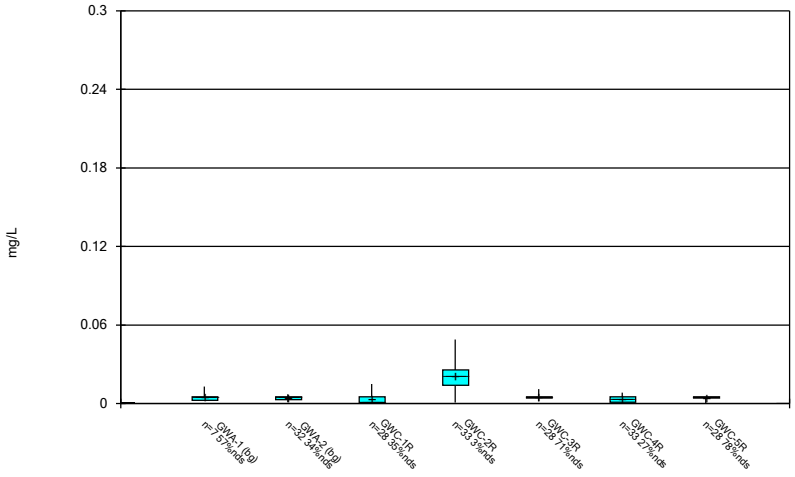
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

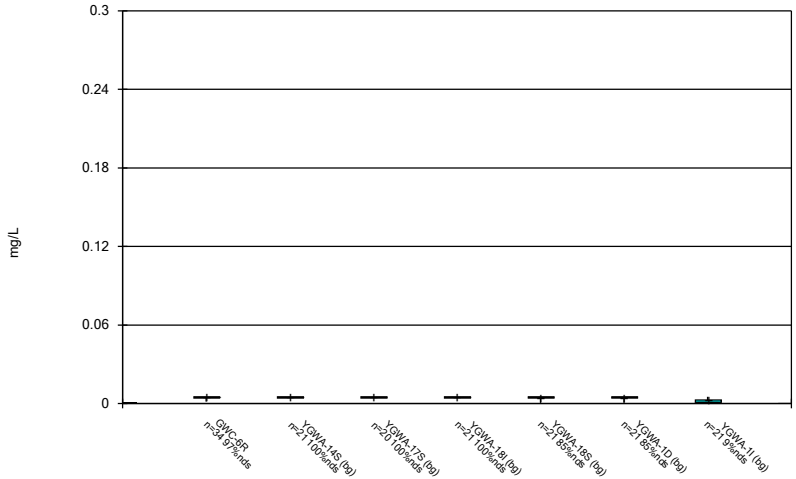
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

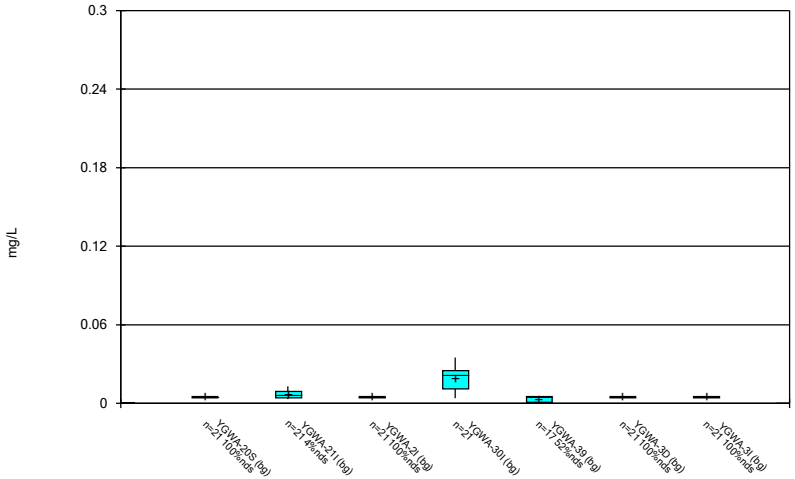
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

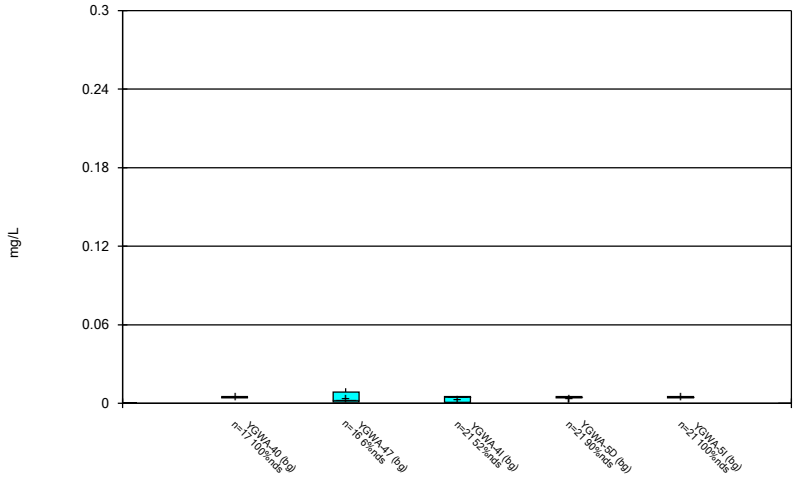
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

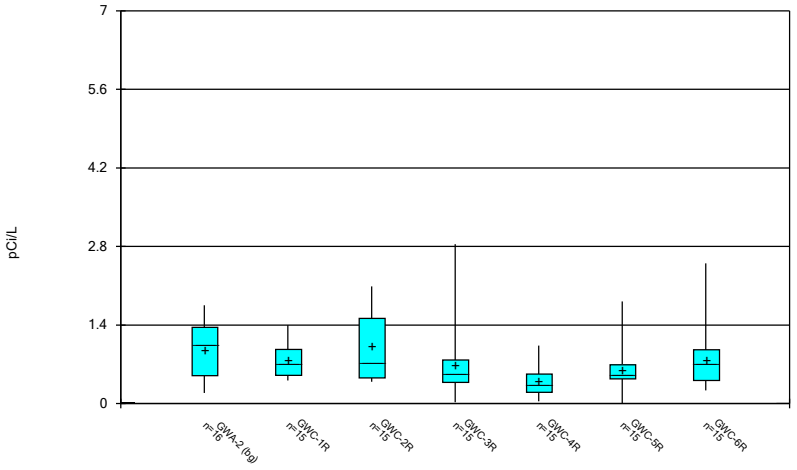
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

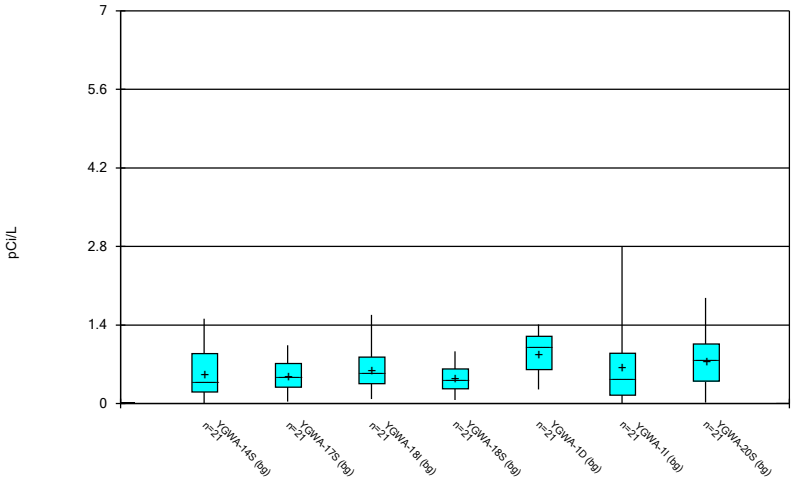
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

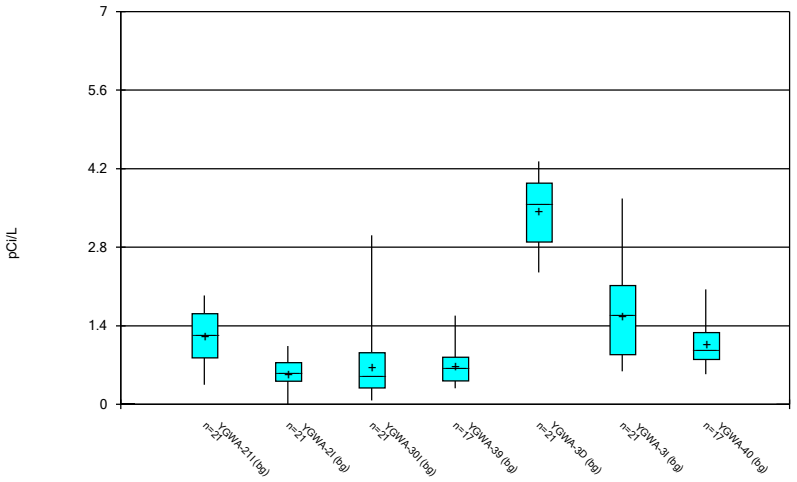
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

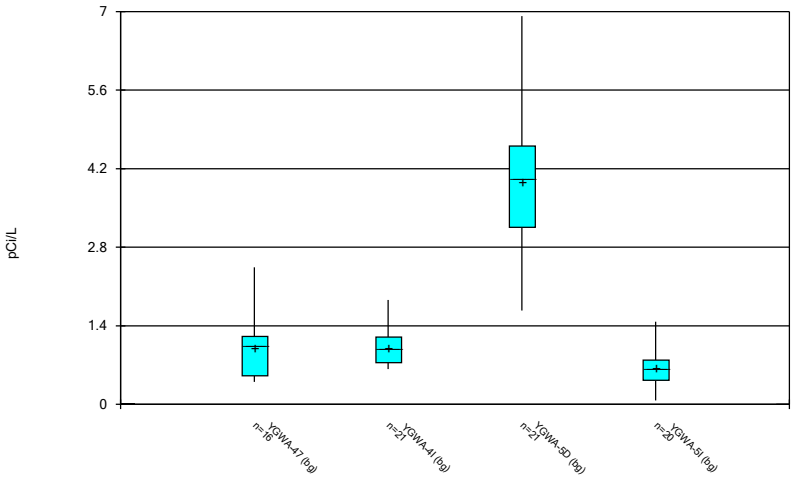
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

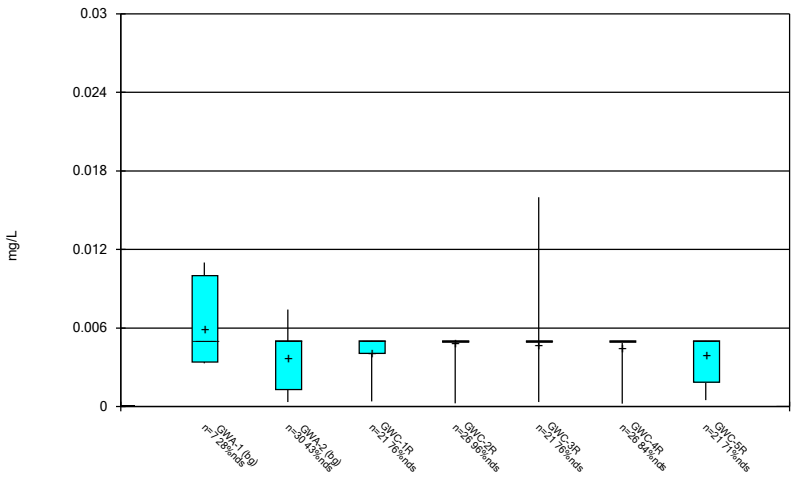
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Copper Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

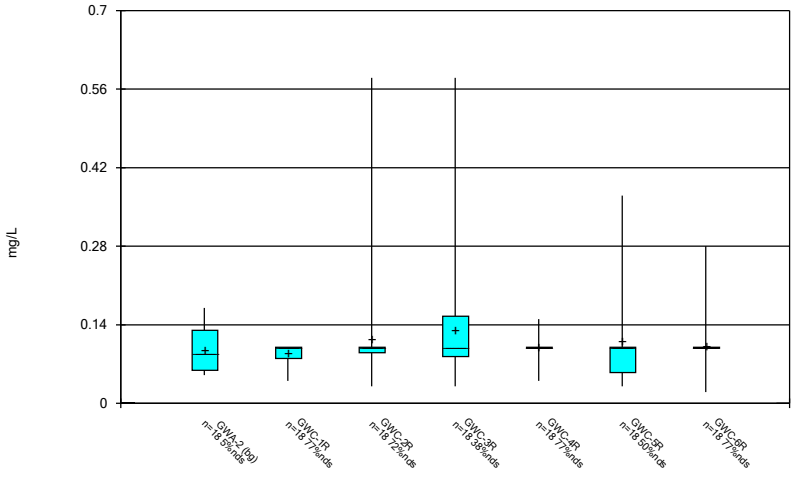
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot

Constituent: Copper Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

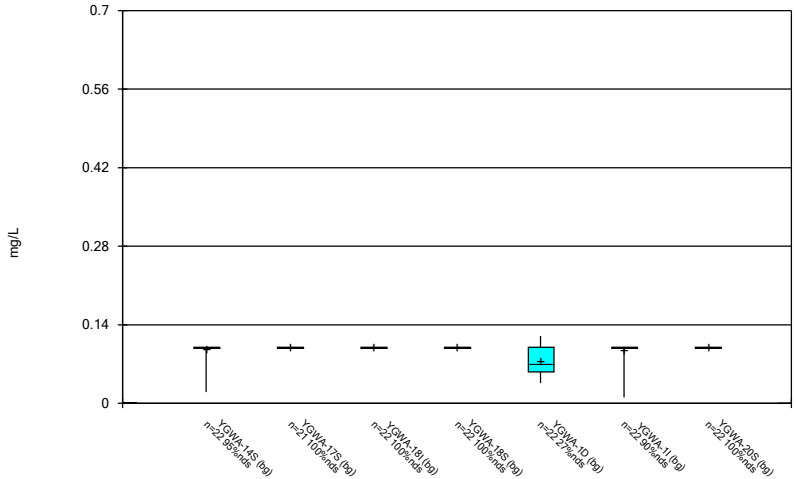
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

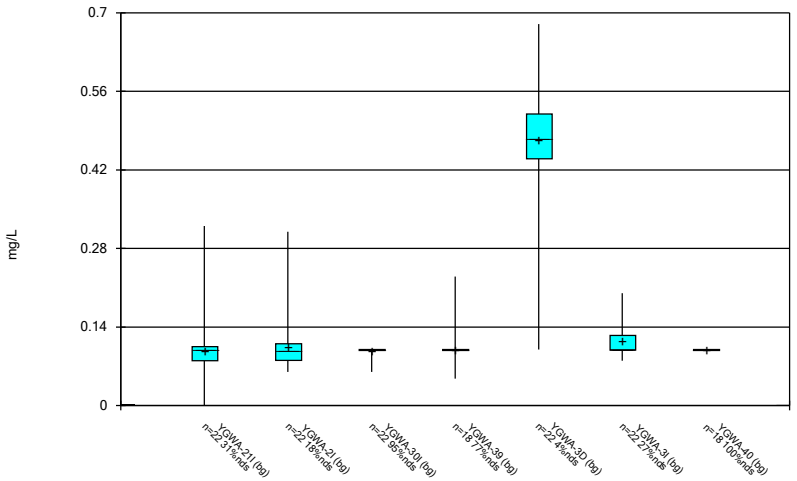
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

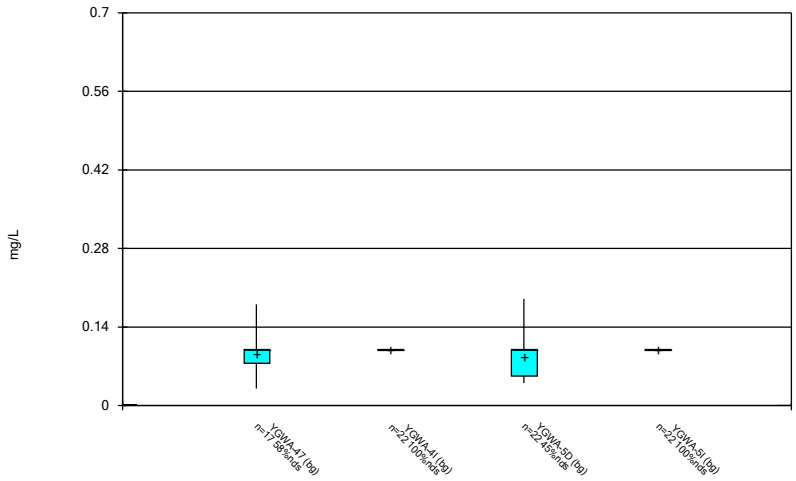
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

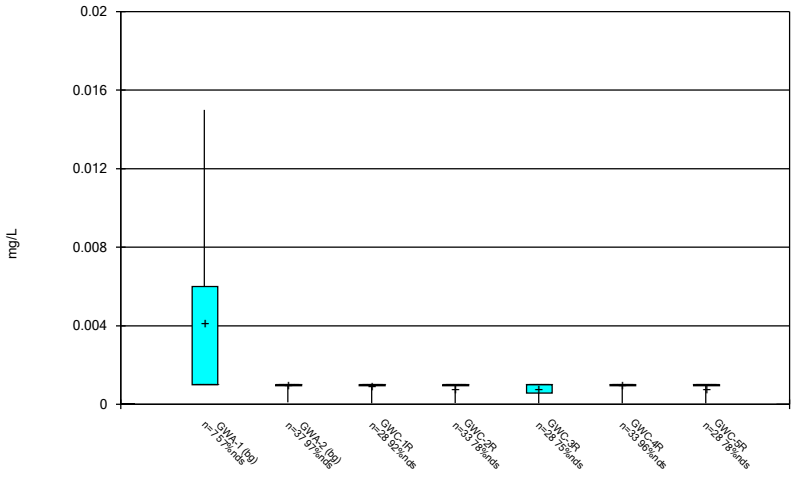
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

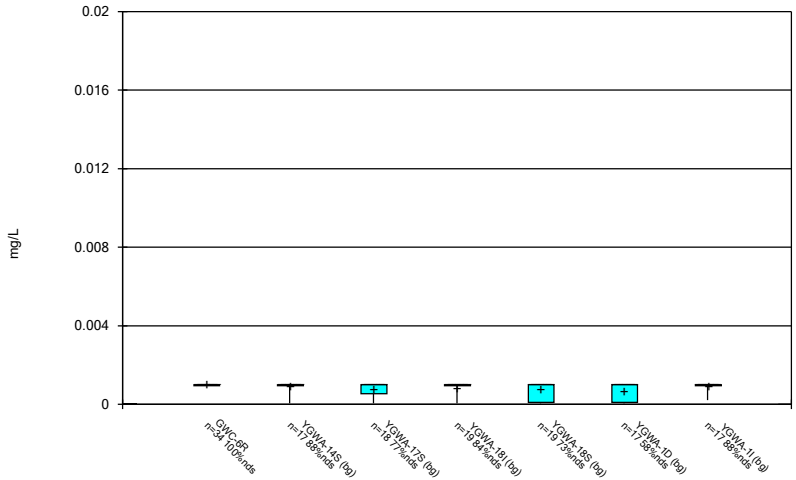
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

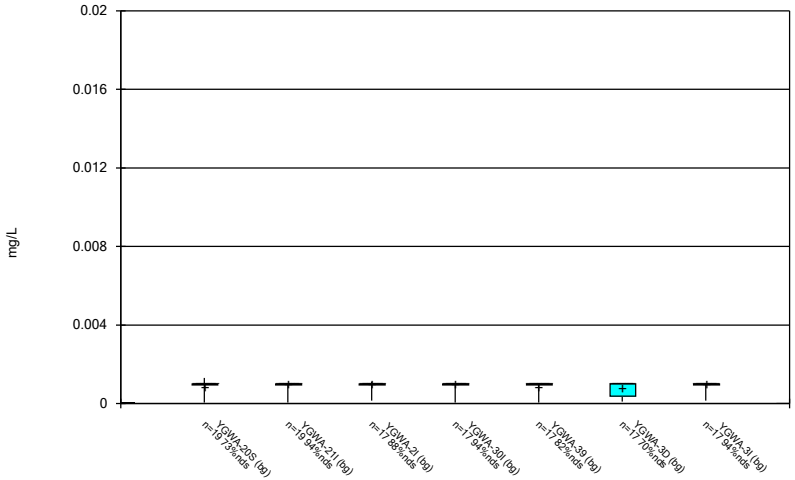
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

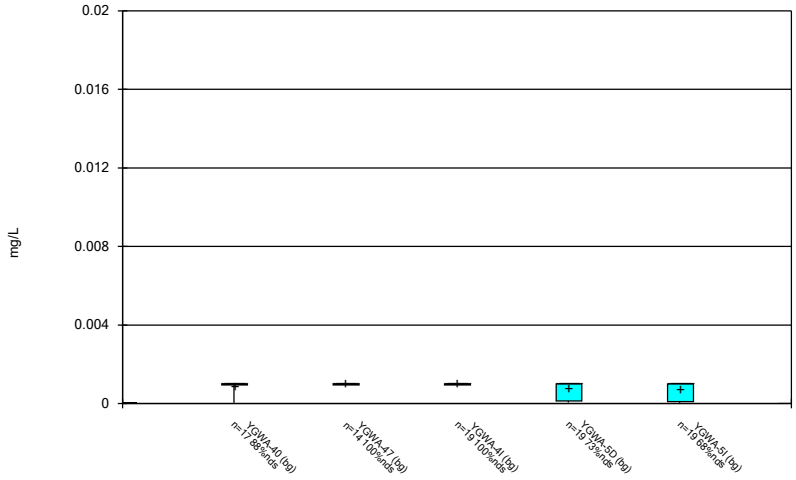
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

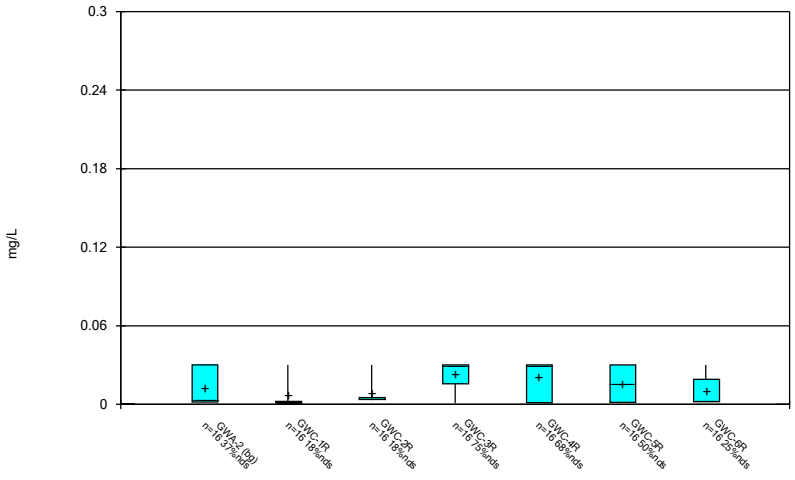
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

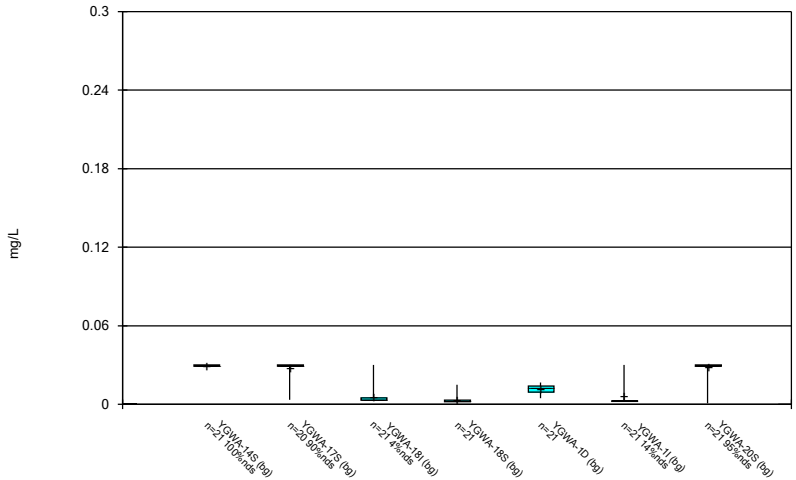
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

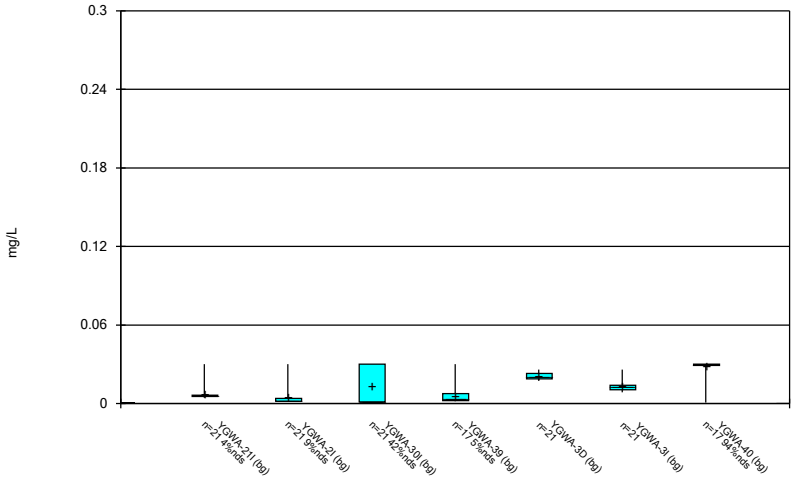
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

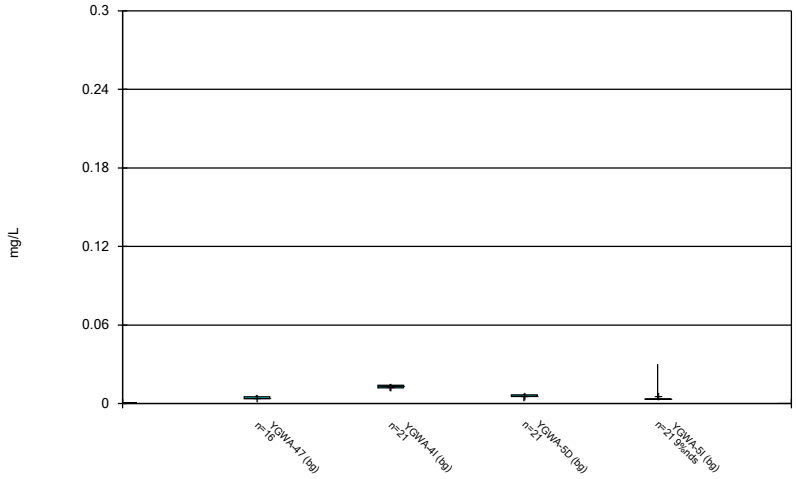
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

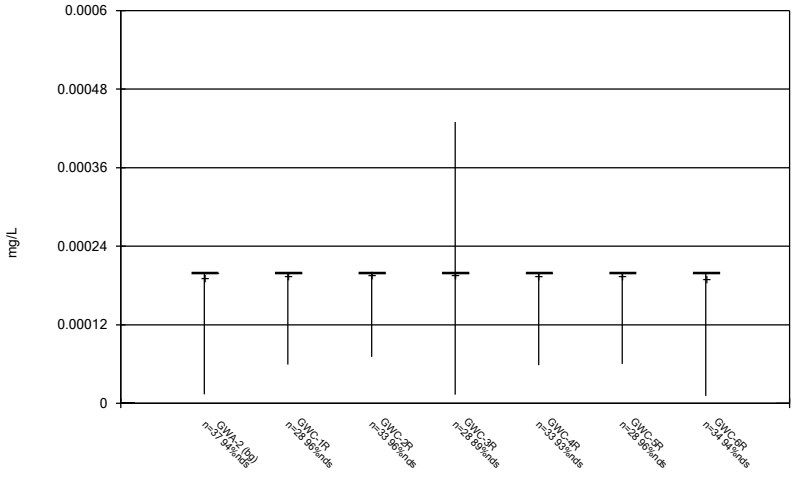
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/28/2022 8:18 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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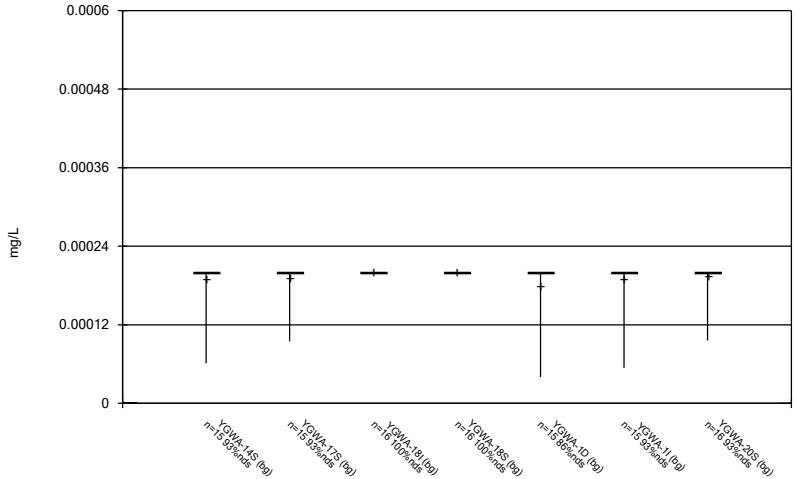
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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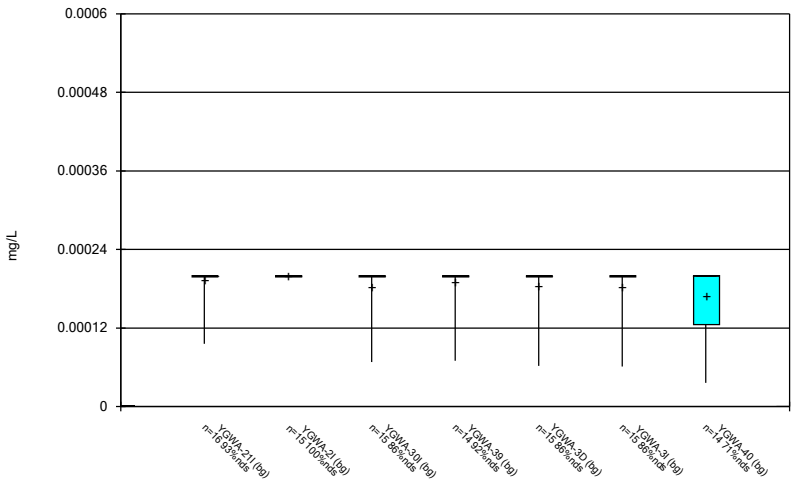
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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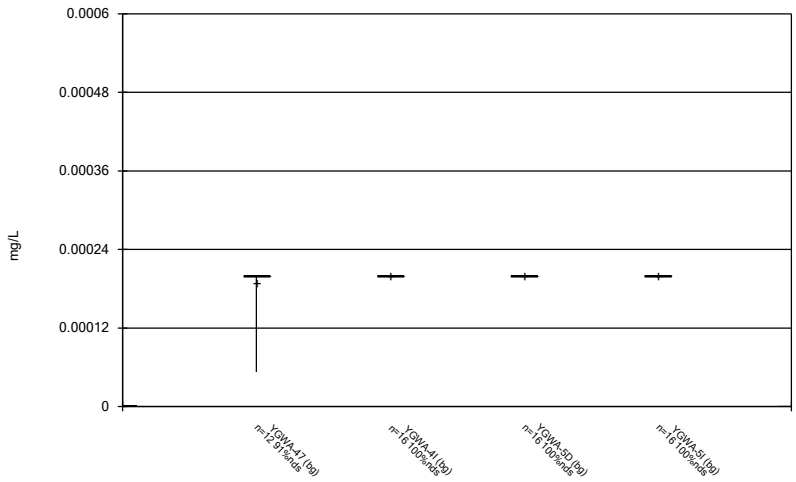
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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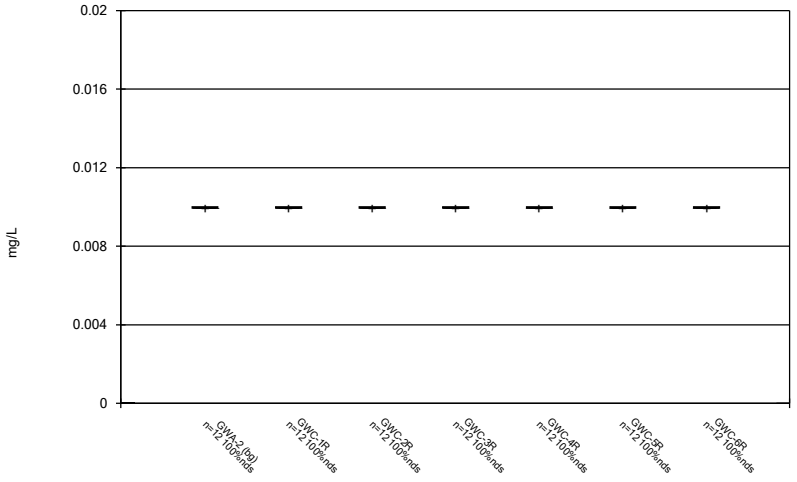
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

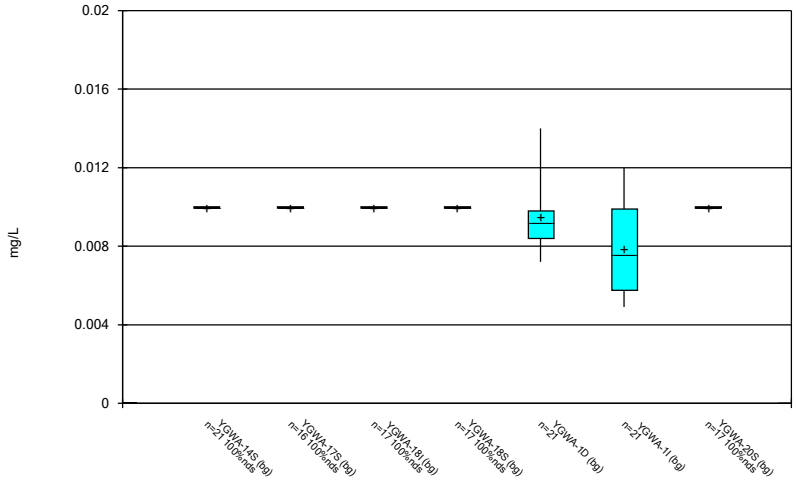
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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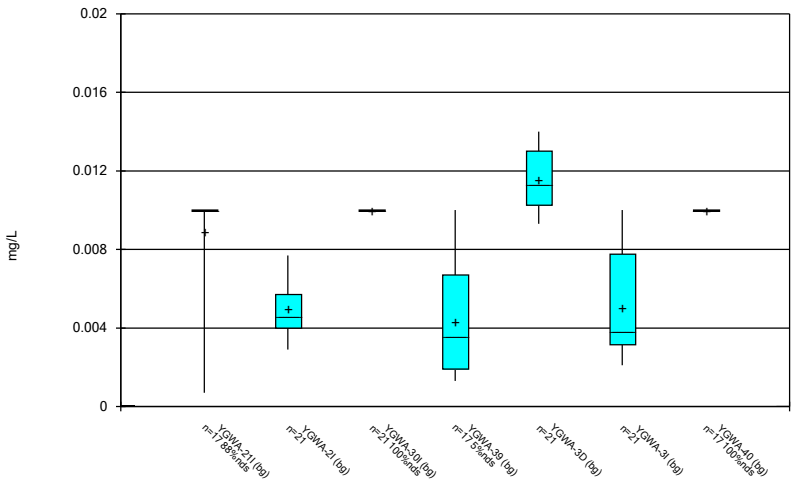
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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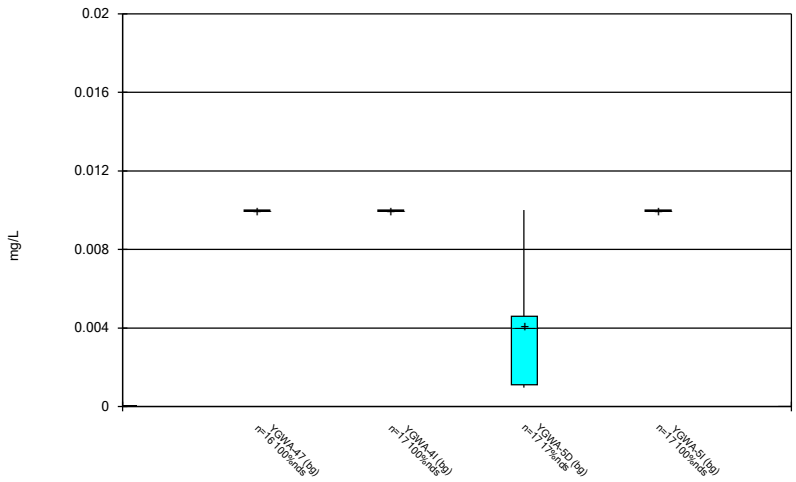
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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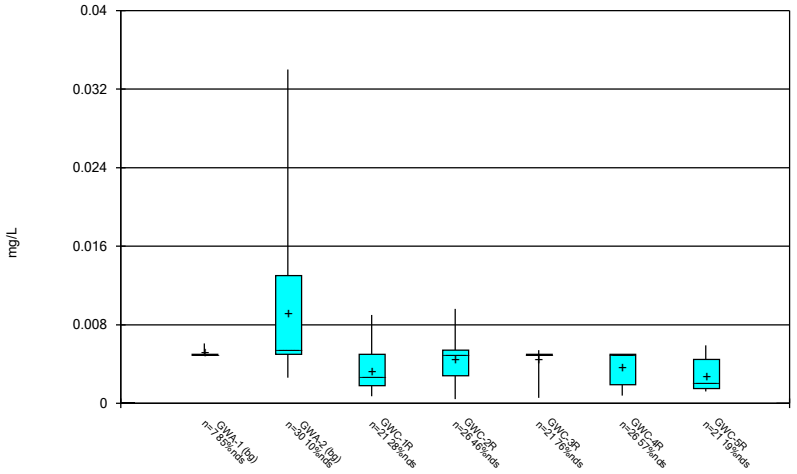
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

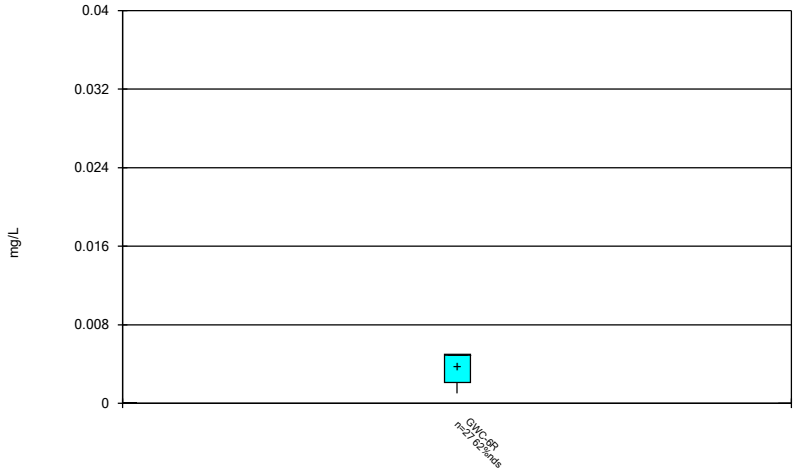
Box & Whiskers Plot



Constituent: Nickel Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

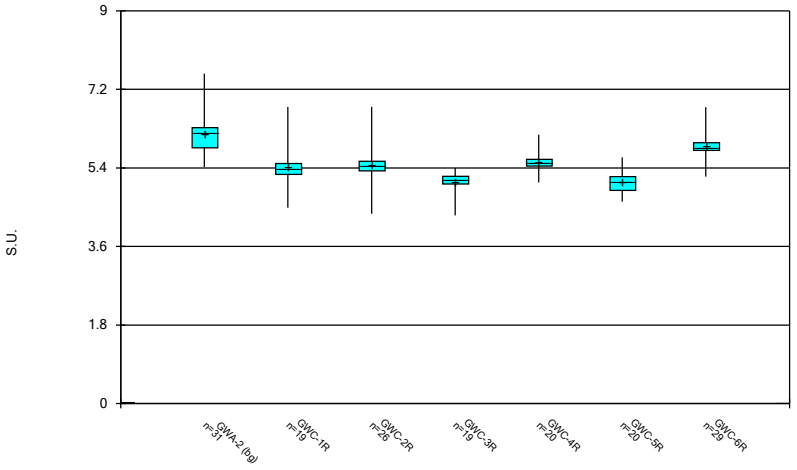
Box & Whiskers Plot



Constituent: Nickel Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

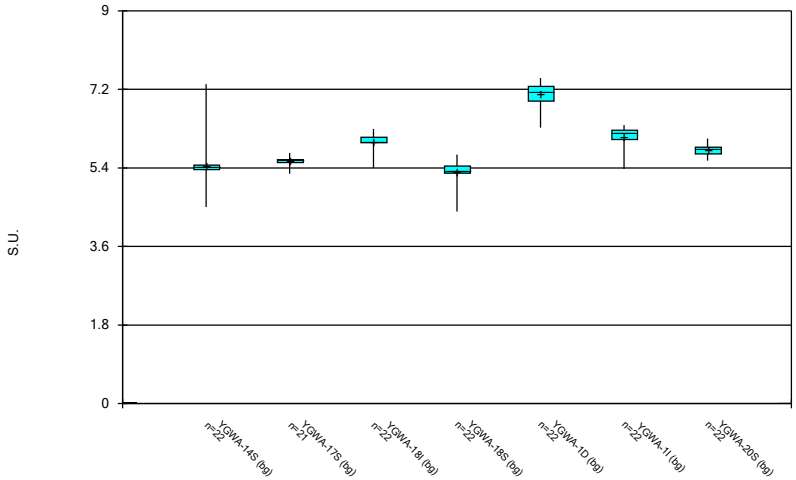
Box & Whiskers Plot



Constituent: pH Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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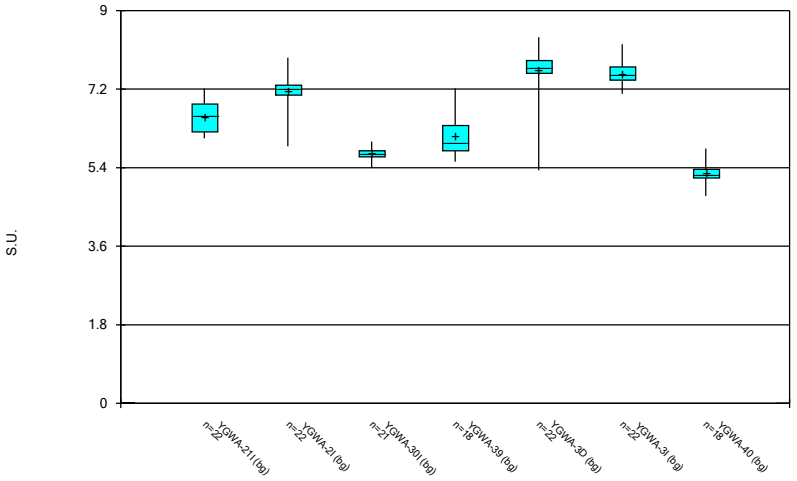
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

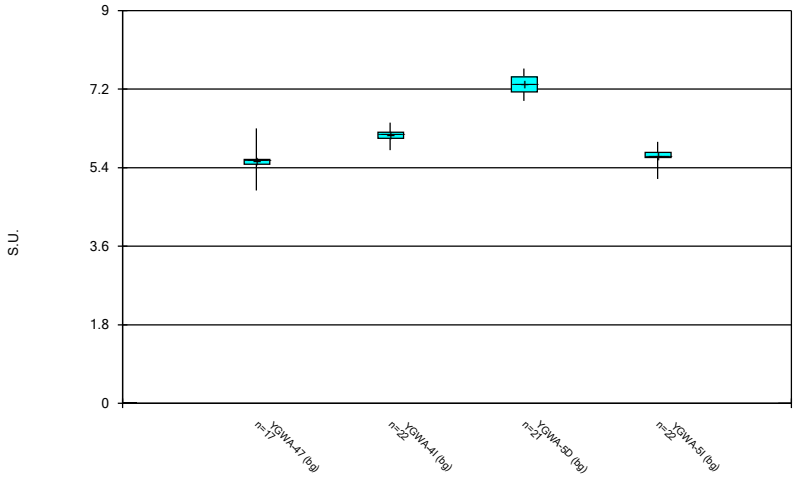
Box & Whiskers Plot



Constituent: pH Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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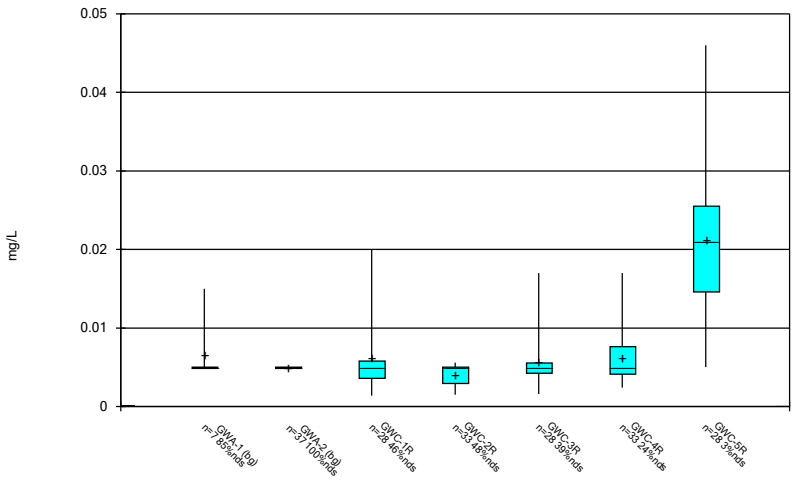
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

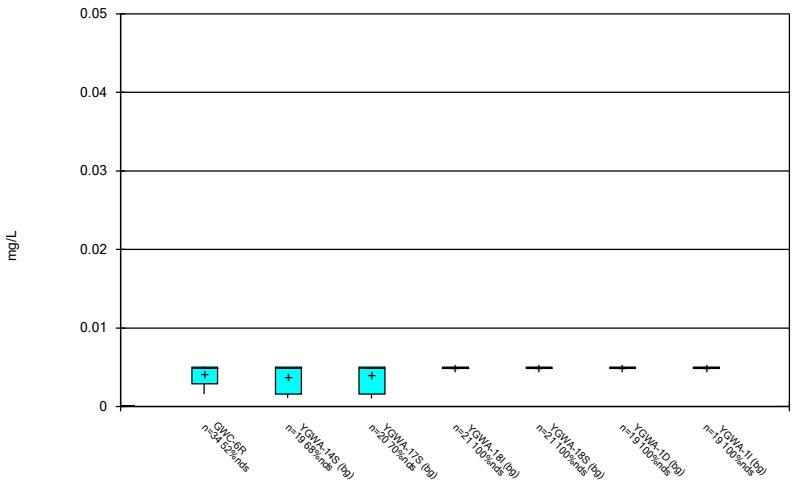
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/28/2022 8:19 AM View: Descriptive
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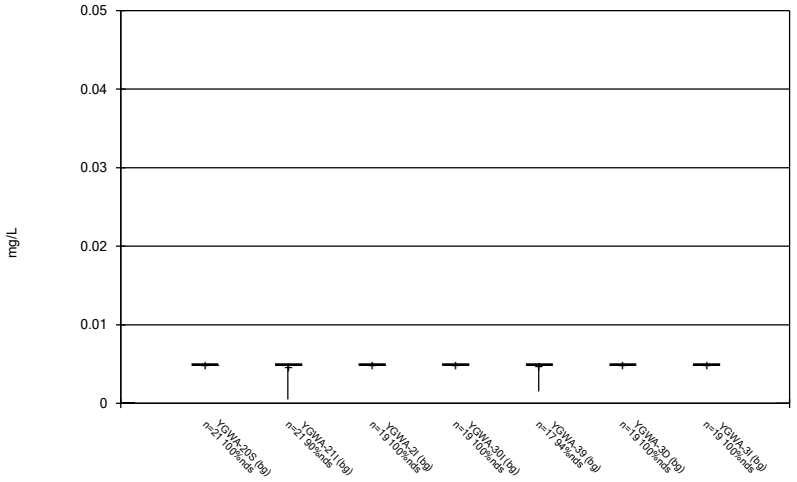
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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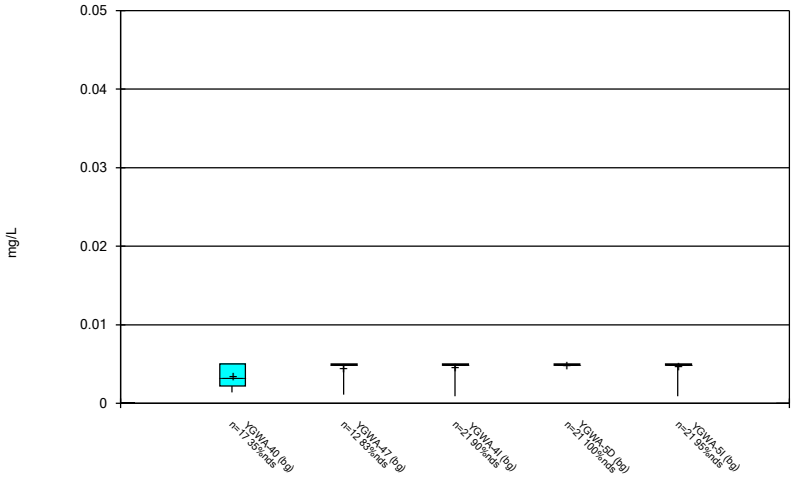

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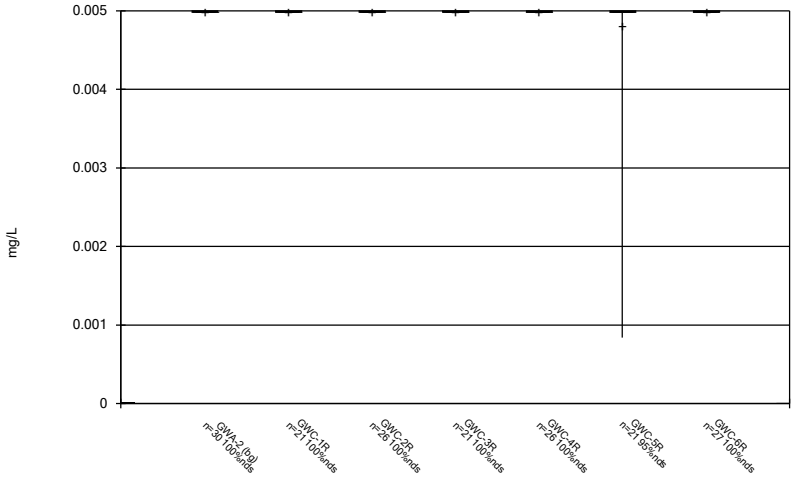
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

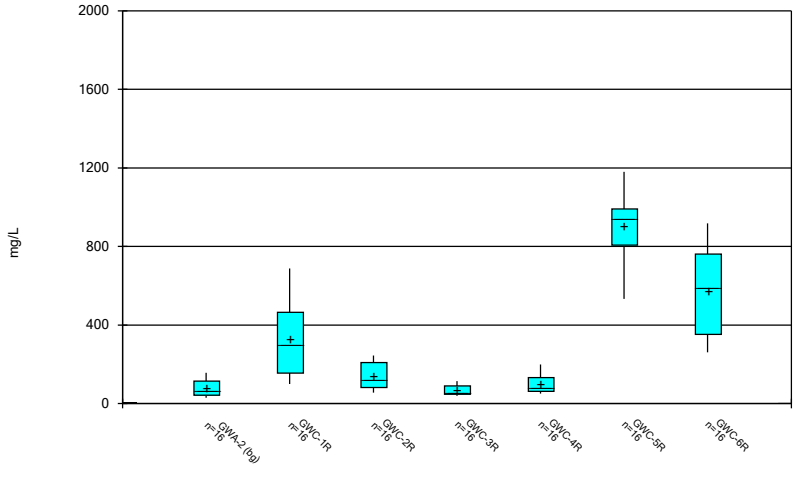
Box & Whiskers Plot



Constituent: Silver Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

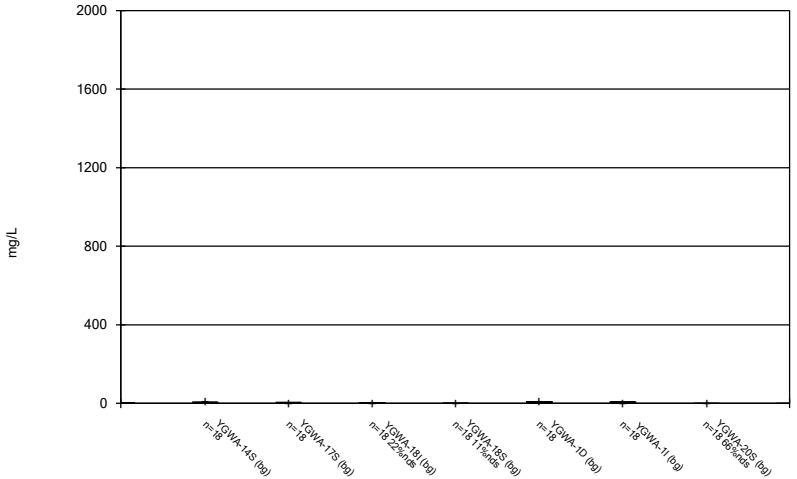
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

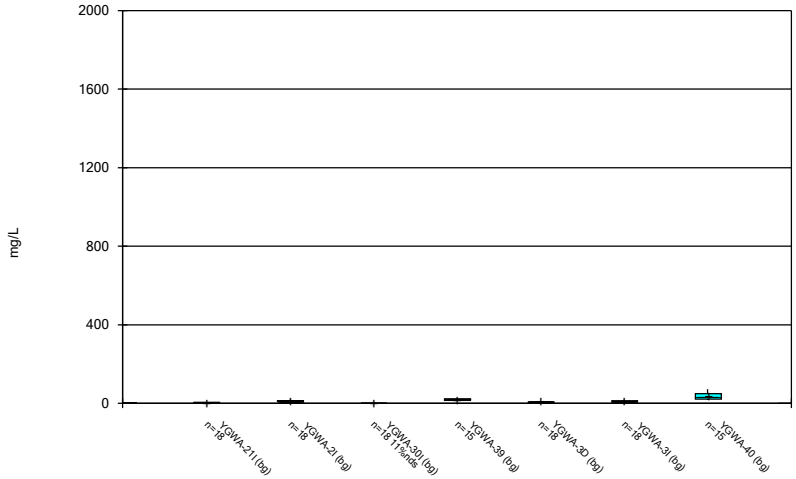
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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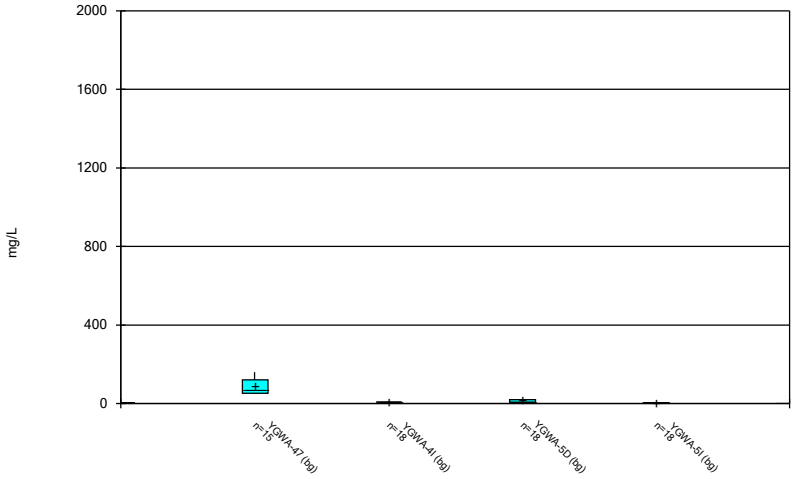
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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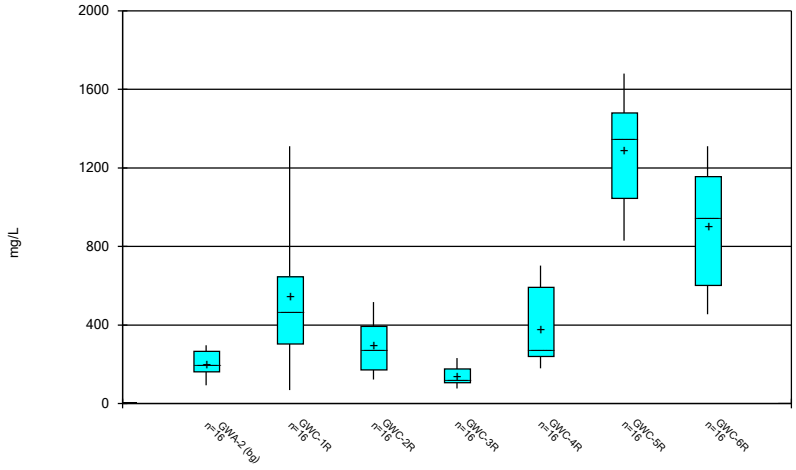
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

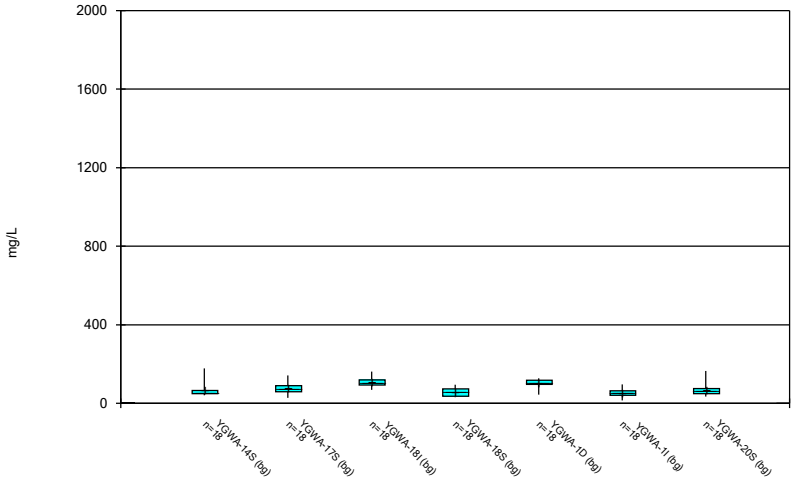
Box & Whiskers Plot



Constituent: TDS Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

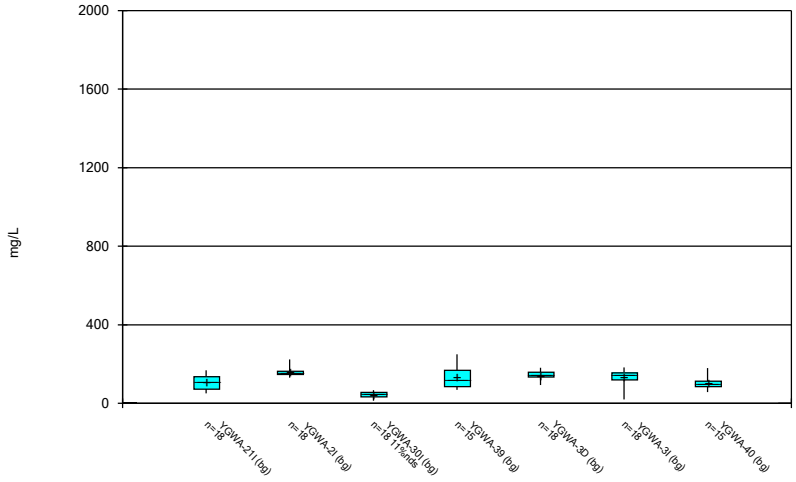
Box & Whiskers Plot



Constituent: TDS Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

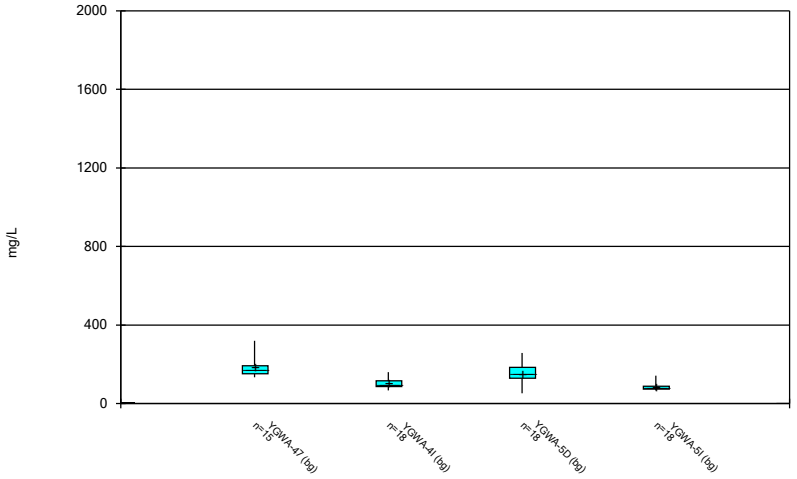
Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: TDS Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

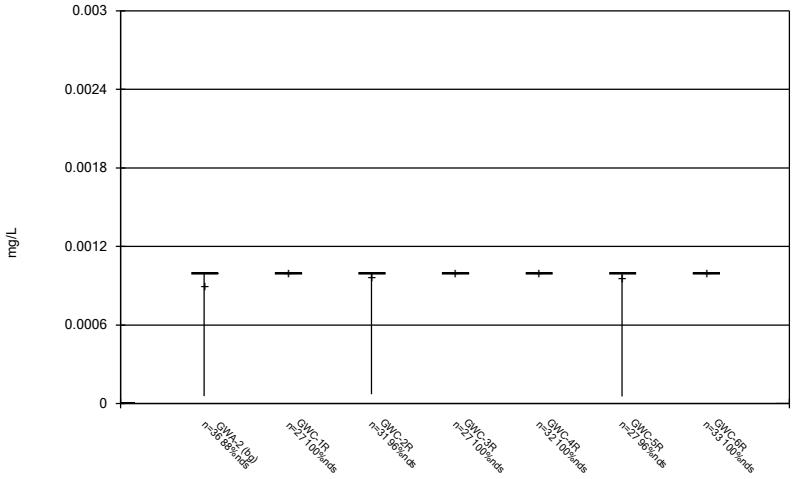
Box & Whiskers Plot



Constituent: TDS Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

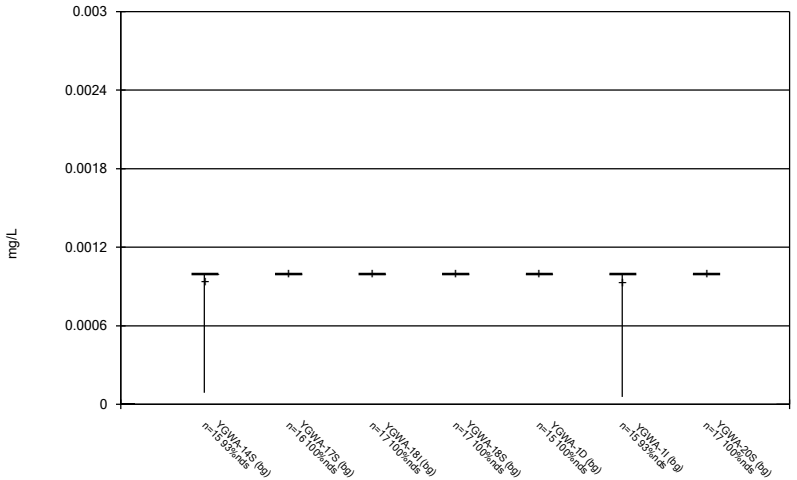
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

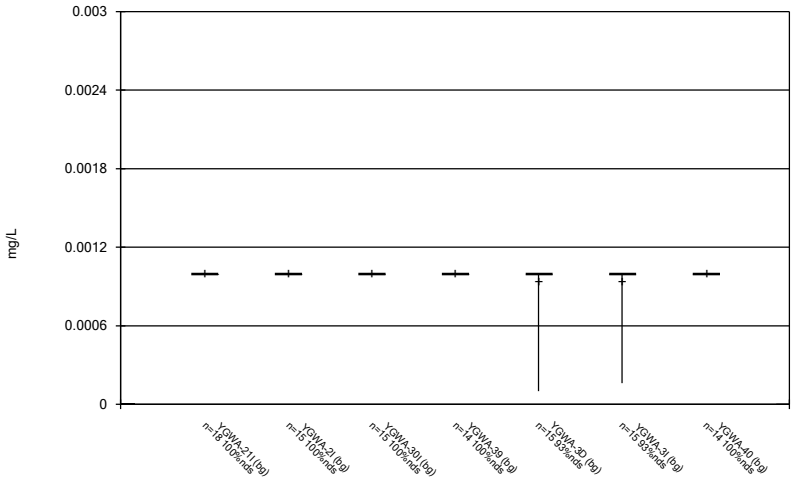
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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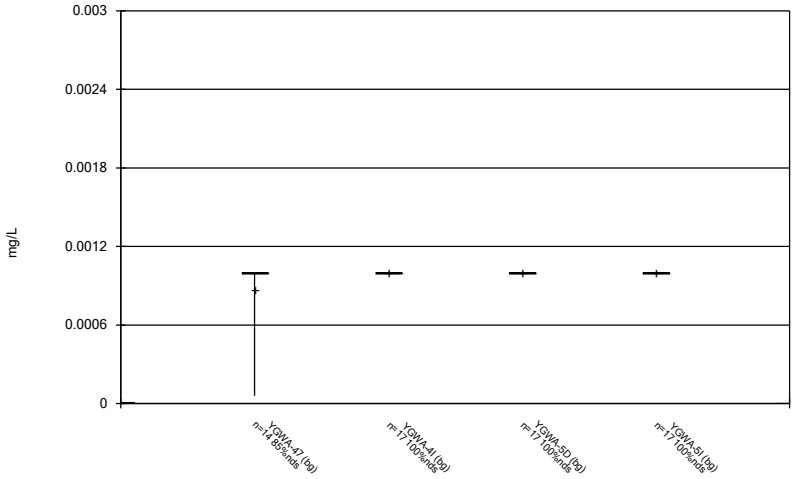
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

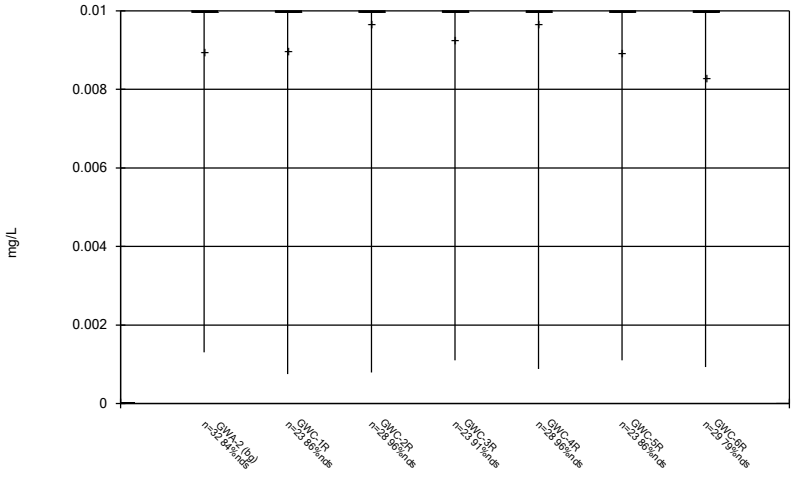
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

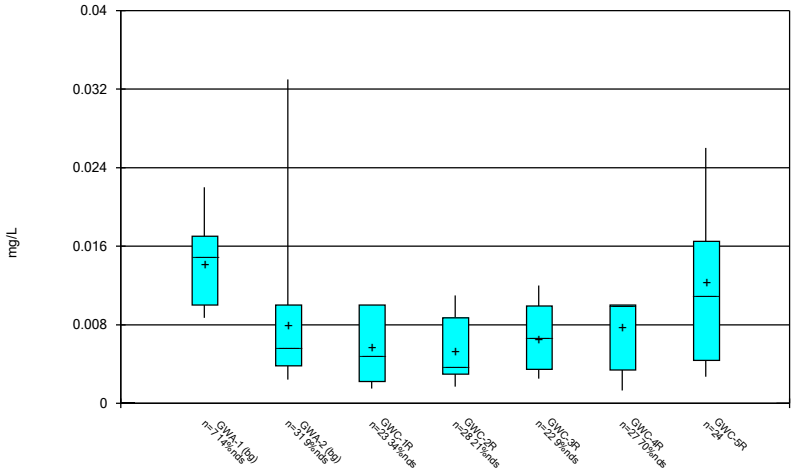
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

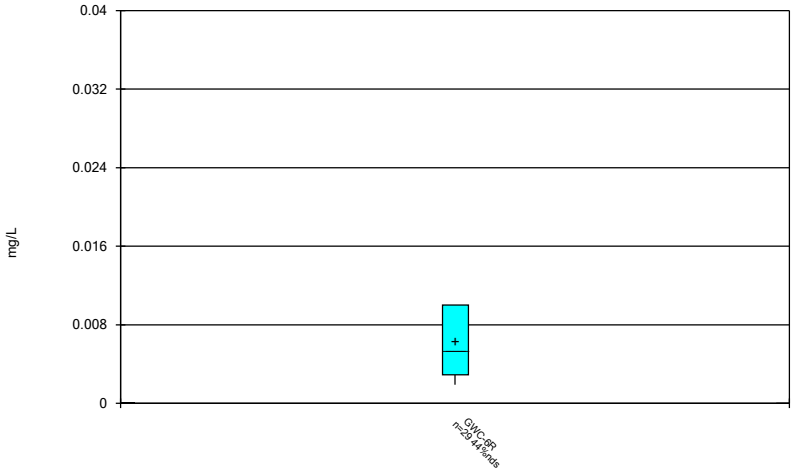
Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 4/28/2022 8:19 AM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/17/2022, 12:51 PM

	GWA-2 Cobalt (mg/L)	GWA-2 Zinc (mg/L)	GWC-3R Zinc (mg/L)	GWC-4R Zinc (mg/L)
3/11/2011				0.025 (o)
2/5/2014		0.018 (o)	0.026 (o)	
8/26/2020	0.2 (o)			
9/22/2020	0.16 (o)			
3/2/2021	0.21 (o)			
8/20/2021	0.074 (o)			
2/8/2022	0.072 (o)			

Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	GWC-1R	Yes	0.0005,0.0009,0.00044	NP	28	0.004084	0.001663	sqrt(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-14S (bg)	Yes	0.003,0.003	NP	19	0.0004911	0.0008844	ln(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-40 (bg)	Yes	0.003,0.003	NP	17	0.0005565	0.0009205	ln(x)	ShapiroWilk
Chromium (mg/L)	GWC-5R	Yes	0.01,0.01,0.01,0.01,0.01	NP	28	0.003557	0.003078	ln(x)	ShapiroWilk
Cobalt (mg/L)	GWA-1 (bg)	Yes	0.013	NP	7	0.003629	0.004135	ln(x)	ShapiroWilk
Copper (mg/L)	GWC-1R	Yes	0.00079,0.0004,0.00067,0.00072	NP	21	0.00408	0.001758	normal	ShapiroWilk
Fluoride (mg/L)	GWC-2R	Yes	0.03,0.04,0.05,0.58	NP	18	0.1156	0.1182	ln(x)	ShapiroWilk
Lithium (mg/L)	GWC-1R	Yes	0.05,0.05,0.05	NP	16	0.01064	0.01953	ln(x)	ShapiroWilk
Lithium (mg/L)	GWC-2R	Yes	0.05,0.05,0.05	NP	16	0.01271	0.01851	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-18I (bg)	Yes	0.05	NP	21	0.006367	0.01013	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-18S (bg)	Yes	0.015	NP	21	0.003157	0.002887	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-1I (bg)	Yes	0.05,0.05,0.05	NP	21	0.009181	0.01708	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-21I (bg)	Yes	0.05	NP	21	0.007957	0.009654	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-2I (bg)	Yes	0.25,0.25	NP	21	0.02619	0.07442	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-5I (bg)	Yes	0.05,0.05	NP	21	0.007662	0.01408	ln(x)	ShapiroWilk
pH (S.U.)	GWC-1R	Yes	4.49,6.8	NP	19	5.401	0.4226	ln(x)	ShapiroWilk
pH (S.U.)	GWC-2R	Yes	4.35,6.37,6.8	NP	26	5.468	0.4282	ln(x)	ShapiroWilk
pH (S.U.)	GWC-4R	Yes	6.16	NP	20	5.534	0.2008	ln(x)	ShapiroWilk
pH (S.U.)	GWC-6R	Yes	5.31,6.79,5.2	NP	29	5.906	0.2903	ln(x)	ShapiroWilk
pH (S.U.)	YGWA-14S (bg)	Yes	5.02,7.32,4.5	NP	22	5.441	0.473	ln(x)	ShapiroWilk
pH (S.U.)	YGWA-17S (bg)	Yes	5.27	NP	21	5.554	0.08599	x^6	ShapiroWilk
pH (S.U.)	YGWA-18I (bg)	Yes	5.4	NP	22	6.003	0.1681	x^6	ShapiroWilk
pH (S.U.)	YGWA-18S (bg)	Yes	4.4	NP	22	5.312	0.2587	x^6	ShapiroWilk
pH (S.U.)	YGWA-2I (bg)	Yes	7.92,5.89	NP	22	7.167	0.3433	x^6	ShapiroWilk
pH (S.U.)	YGWA-3D (bg)	Yes	5.34	NP	22	7.625	0.5523	x^6	ShapiroWilk
pH (S.U.)	YGWA-47 (bg)	Yes	4.88	NP	16	5.516	0.2008	x^6	ShapiroWilk
pH (S.U.)	YGWA-5I (bg)	Yes	5.14	NP	22	5.672	0.1556	x^6	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.002818	0.0006356	unknown	ShapiroWilk
Antimony (mg/L)	GWC-1R	n/a	n/a	NP	28	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	GWC-2R	n/a	n/a	NP	33	0.002961	0.0002263	unknown	ShapiroWilk
Antimony (mg/L)	GWC-3R	n/a	n/a	NP	28	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	GWC-4R	n/a	n/a	NP	33	0.002755	0.0007019	unknown	ShapiroWilk
Antimony (mg/L)	GWC-5R	n/a	n/a	NP	28	0.002816	0.0006761	unknown	ShapiroWilk
Antimony (mg/L)	GWC-6R	n/a	n/a	NP	34	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	17	0.002853	0.0006063	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	18	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	19	0.00274	0.0007789	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	19	0.002877	0.0005345	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-1D (bg)	No	n/a	NP	17	0.002246	0.001078	x^(1/3)	ShapiroWilk
Antimony (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	17	0.002771	0.0006872	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	19	0.002859	0.0006148	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-21I (bg)	No	n/a	NP	19	0.002358	0.00111	sqrt(x)	ShapiroWilk
Antimony (mg/L)	YGWA-2I (bg)	No	n/a	NP	17	0.002245	0.001095	sqrt(x)	ShapiroWilk
Antimony (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	17	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	16	0.00275	0.0006986	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-3D (bg)	No	n/a	NP	17	0.002585	0.0007909	x^3	ShapiroWilk
Antimony (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	17	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	16	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	14	0.002269	0.001169	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	19	0.002858	0.0006194	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	19	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	19	0.003	0	unknown	ShapiroWilk
Arsenic (mg/L)	GWA-1 (bg)	n/a	n/a	NP	7	0.009	0	unknown	ShapiroWilk
Arsenic (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.00472	0.001024	unknown	ShapiroWilk
Arsenic (mg/L)	**GWC-1R**	**Yes**	**0.0005,0.0009,0.00044**	**NP**	**28**	**0.004084**	**0.001663**	**sqrt(x)**	**ShapiroWilk**
Arsenic (mg/L)	GWC-2R	n/a	n/a	NP	33	0.004753	0.0009884	unknown	ShapiroWilk
Arsenic (mg/L)	GWC-3R	n/a	n/a	NP	28	0.004279	0.001438	unknown	ShapiroWilk
Arsenic (mg/L)	GWC-4R	n/a	n/a	NP	33	0.004614	0.001246	unknown	ShapiroWilk
Arsenic (mg/L)	GWC-5R	No	n/a	NP	28	0.003099	0.001881	ln(x)	ShapiroWilk
Arsenic (mg/L)	GWC-6R	No	n/a	NP	34	0.003938	0.001816	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	21	0.004838	0.0007419	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	20	0.00473	0.0008317	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	21	0.004489	0.001307	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	21	0.004553	0.001175	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-1D (bg)	No	n/a	NP	21	0.002446	0.001549	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	21	0.004705	0.001032	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	21	0.004862	0.0006328	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-21I (bg)	No	n/a	NP	21	0.002959	0.001755	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-2I (bg)	No	n/a	NP	21	0.002242	0.001668	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	21	0.004743	0.0008606	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.003664	0.001963	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	21	0.004402	0.001377	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-3I (bg)	No	n/a	NP	21	0.004199	0.001609	x^5	ShapiroWilk
Arsenic (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.004788	0.000602	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	16	0.00432	0.001521	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	21	0.004619	0.001211	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-5D (bg)	No	n/a	NP	21	0.002876	0.001978	ln(x)	ShapiroWilk
Arsenic (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	21	0.004695	0.0009646	unknown	ShapiroWilk
Barium (mg/L)	GWA-1 (bg)	No	n/a	NP	7	0.01771	0.007761	normal	ShapiroWilk
Barium (mg/L)	GWA-2 (bg)	No	n/a	NP	37	0.0496	0.01232	x^2	ShapiroWilk
Barium (mg/L)	GWC-1R	No	n/a	NP	28	0.0497	0.01913	ln(x)	ShapiroWilk
Barium (mg/L)	GWC-2R	No	n/a	NP	33	0.05968	0.02332	ln(x)	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	GWC-3R	No	n/a	NP	28	0.03015	0.02349	ln(x)	ShapiroWilk
Barium (mg/L)	GWC-4R	No	n/a	NP	33	0.03319	0.01703	ln(x)	ShapiroWilk
Barium (mg/L)	GWC-5R	No	n/a	NP	28	0.02859	0.01736	ln(x)	ShapiroWilk
Barium (mg/L)	GWC-6R	No	n/a	NP	34	0.04692	0.02092	sqrt(x)	ShapiroWilk
Barium (mg/L)	YGWA-14S (bg)	No	n/a	NP	21	0.007638	0.0009255	x^4	ShapiroWilk
Barium (mg/L)	YGWA-17S (bg)	No	n/a	NP	20	0.01442	0.001475	x^(1/3)	ShapiroWilk
Barium (mg/L)	YGWA-18I (bg)	No	n/a	NP	21	0.0238	0.002505	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-18S (bg)	No	n/a	NP	21	0.01754	0.001726	normal	ShapiroWilk
Barium (mg/L)	YGWA-1D (bg)	No	n/a	NP	21	0.006762	0.0008738	normal	ShapiroWilk
Barium (mg/L)	YGWA-1I (bg)	No	n/a	NP	21	0.008729	0.001472	normal	ShapiroWilk
Barium (mg/L)	YGWA-20S (bg)	No	n/a	NP	21	0.0152	0.001292	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-21I (bg)	No	n/a	NP	21	0.009843	0.00192	x^6	ShapiroWilk
Barium (mg/L)	YGWA-2I (bg)	No	n/a	NP	21	0.003952	0.0008177	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	21	0.007014	0.0006118	unknown	ShapiroWilk
Barium (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.01534	0.01129	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-3D (bg)	No	n/a	NP	21	0.00689	0.00144	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-3I (bg)	No	n/a	NP	21	0.003495	0.0006399	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-40 (bg)	No	n/a	NP	17	0.0419	0.01206	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-47 (bg)	No	n/a	NP	16	0.02836	0.006116	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-4I (bg)	No	n/a	NP	21	0.01457	0.001822	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-5D (bg)	No	n/a	NP	21	0.00841	0.001618	ln(x)	ShapiroWilk
Barium (mg/L)	YGWA-5I (bg)	No	n/a	NP	21	0.01946	0.001357	ln(x)	ShapiroWilk
Beryllium (mg/L)	GWA-1 (bg)	n/a	n/a	NP	7	0.001	0	unknown	ShapiroWilk
Beryllium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	GWC-1R	No	n/a	NP	28	0.001476	0.001446	ln(x)	ShapiroWilk
Beryllium (mg/L)	GWC-2R	No	n/a	NP	33	0.002143	0.00132	ln(x)	ShapiroWilk
Beryllium (mg/L)	GWC-3R	No	n/a	NP	28	0.001166	0.001107	ln(x)	ShapiroWilk
Beryllium (mg/L)	GWC-4R	n/a	n/a	NP	33	0.002646	0.0009684	unknown	ShapiroWilk
Beryllium (mg/L)	GWC-5R	No	n/a	NP	28	0.001846	0.001265	x^2	ShapiroWilk
Beryllium (mg/L)	GWC-6R	n/a	n/a	NP	34	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	**YGWA-14S (bg)**	**Yes**	**0.003,0.003**	**NP**	**19**	**0.0004911**	**0.0008844**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	YGWA-17S (bg)	No	n/a	NP	20	0.001253	0.001463	ln(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-18S (bg)	No	n/a	NP	21	0.001334	0.001478	ln(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-20S (bg)	No	n/a	NP	21	0.001468	0.001497	ln(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	19	0.0004536	0.000139	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	17	0.0004736	0.0001089	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	19	0.0004768	0.0001012	unknown	ShapiroWilk
Beryllium (mg/L)	**YGWA-40 (bg)**	**Yes**	**0.003,0.003**	**NP**	**17**	**0.0005565**	**0.0009205**	**ln(x)**	**ShapiroWilk**
Beryllium (mg/L)	YGWA-47 (bg)	No	n/a	NP	14	0.0003418	0.0002203	ln(x)	ShapiroWilk
Beryllium (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	GWC-1R	n/a	n/a	NP	28	0.001995	0.0009856	unknown	ShapiroWilk
Cadmium (mg/L)	GWC-2R	n/a	n/a	NP	33	0.0004342	0.0001421	unknown	ShapiroWilk
Cadmium (mg/L)	GWC-3R	No	n/a	NP	28	0.001601	0.001139	ln(x)	ShapiroWilk
Cadmium (mg/L)	GWC-4R	n/a	n/a	NP	33	0.0004879	0.00006963	unknown	ShapiroWilk
Cadmium (mg/L)	GWC-5R	No	n/a	NP	28	0.0008286	0.000281	x^3	ShapiroWilk
Cadmium (mg/L)	GWC-6R	n/a	n/a	NP	34	0.0005	0	unknown	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Cadmium (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	19	0.0004774	0.00009865	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	20	0.00048	0.00008944	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	21	0.000481	0.00008729	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	19	0.0004842	0.00006882	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	21	0.0004765	0.00008936	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	19	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.002006	0.000921	ln(x)	ShapiroWilk
Cadmium (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	19	0.0004789	0.00009177	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	19	0.0004779	0.00009635	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-47 (bg)	No	n/a	NP	14	0.000385	0.0001887	ln(x)	ShapiroWilk
Cadmium (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	21	0.0005	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	21	0.0004805	0.00008947	unknown	ShapiroWilk
Chromium (mg/L)	GWA-1 (bg)	n/a	n/a	NP	7	0.007386	0.001158	unknown	ShapiroWilk
Chromium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.004714	0.001176	unknown	ShapiroWilk
Chromium (mg/L)	GWC-1R	No	n/a	NP	28	0.005007	0.004419	ln(x)	ShapiroWilk
Chromium (mg/L)	GWC-2R	n/a	n/a	NP	33	0.004365	0.001536	unknown	ShapiroWilk
Chromium (mg/L)	GWC-3R	No	n/a	NP	28	0.002357	0.001737	ln(x)	ShapiroWilk
Chromium (mg/L)	GWC-4R	n/a	n/a	NP	33	0.004405	0.001551	unknown	ShapiroWilk
Chromium (mg/L)	**GWC-5R**	**Yes**	**0.01,0.01,0.01,0.01,0.01**	**NP**	**28**	**0.003557**	**0.003078**	**ln(x)**	**ShapiroWilk**
Chromium (mg/L)	GWC-6R	No	n/a	NP	34	0.004267	0.004039	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-17S (bg)	No	n/a	NP	16	0.002915	0.002155	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-18I (bg)	No	n/a	NP	17	0.002575	0.002099	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-18S (bg)	No	n/a	NP	17	0.003105	0.002087	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-1D (bg)	No	n/a	NP	19	0.003789	0.001929	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-1I (bg)	No	n/a	NP	19	0.004017	0.00177	normal	ShapiroWilk
Chromium (mg/L)	YGWA-20S (bg)	No	n/a	NP	17	0.003191	0.002231	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	17	0.005	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	19	0.004283	0.001701	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	19	0.004821	0.00078	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	17	0.005	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	19	0.004384	0.001468	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	19	0.004595	0.001239	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-40 (bg)	No	n/a	NP	17	0.003996	0.001871	ln(x)	ShapiroWilk
Chromium (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	14	0.005307	0.001149	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	17	0.004522	0.001354	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	17	0.0045	0.001417	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	17	0.004519	0.001367	unknown	ShapiroWilk
Cobalt (mg/L)	**GWA-1 (bg)**	**Yes**	**0.013**	**NP**	**7**	**0.003629**	**0.004135**	**ln(x)**	**ShapiroWilk**
Cobalt (mg/L)	GWA-2 (bg)	No	n/a	NP	33	0.007885	0.01195	ln(x)	ShapiroWilk
Cobalt (mg/L)	GWC-1R	No	n/a	NP	28	0.00478	0.004769	ln(x)	ShapiroWilk
Cobalt (mg/L)	GWC-2R	No	n/a	NP	33	0.02087	0.01144	normal	ShapiroWilk
Cobalt (mg/L)	GWC-3R	n/a	n/a	NP	28	0.005529	0.002088	unknown	ShapiroWilk
Cobalt (mg/L)	GWC-4R	No	n/a	NP	33	0.004538	0.003802	ln(x)	ShapiroWilk
Cobalt (mg/L)	GWC-5R	n/a	n/a	NP	28	0.004023	0.001905	unknown	ShapiroWilk
Cobalt (mg/L)	GWC-6R	n/a	n/a	NP	34	0.004894	0.0006174	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	20	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Cobalt (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	21	0.004372	0.001578	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	21	0.004387	0.001539	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1I (bg)	No	n/a	NP	21	0.00243	0.00263	ln(x)	ShapiroWilk
Cobalt (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-21I (bg)	No	n/a	NP	21	0.007071	0.002868	sqrt(x)	ShapiroWilk
Cobalt (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-30I (bg)	No	n/a	NP	21	0.01919	0.00908	x^2	ShapiroWilk
Cobalt (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.002973	0.002229	ln(x)	ShapiroWilk
Cobalt (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-47 (bg)	No	n/a	NP	16	0.004717	0.004238	ln(x)	ShapiroWilk
Cobalt (mg/L)	YGWA-4I (bg)	No	n/a	NP	21	0.003048	0.002155	ln(x)	ShapiroWilk
Cobalt (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	21	0.004558	0.001396	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWA-2 (bg)	No	n/a	NP	15	0.9801	0.5049	x^2	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-1R	No	n/a	NP	14	0.7939	0.3436	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-2R	No	n/a	NP	14	1.053	0.5835	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-3R	No	n/a	NP	14	0.7206	0.7039	x^(1/3)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-4R	No	n/a	NP	14	0.41	0.2905	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-5R	No	n/a	NP	14	0.6058	0.4502	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	GWC-6R	No	n/a	NP	14	0.8079	0.5687	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-14S (bg)	No	n/a	NP	20	0.5693	0.4235	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-17S (bg)	No	n/a	NP	20	0.5175	0.2759	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-18I (bg)	No	n/a	NP	20	0.611	0.3994	x^(1/3)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-18S (bg)	No	n/a	NP	20	0.4719	0.2218	x^(1/3)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1D (bg)	No	n/a	NP	20	0.8807	0.359	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1I (bg)	No	n/a	NP	20	0.6663	0.6827	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-20S (bg)	No	n/a	NP	20	0.7708	0.4835	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	No	n/a	NP	20	1.183	0.4458	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-2I (bg)	No	n/a	NP	20	0.5282	0.2711	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-30I (bg)	No	n/a	NP	20	0.6872	0.624	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-39 (bg)	No	n/a	NP	16	0.6777	0.3313	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3D (bg)	No	n/a	NP	20	3.454	0.6459	x^3	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3I (bg)	No	n/a	NP	20	1.556	0.7856	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	No	n/a	NP	16	1.125	0.3967	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-47 (bg)	No	n/a	NP	15	1.029	0.5332	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-4I (bg)	No	n/a	NP	20	0.9909	0.3138	ln(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	No	n/a	NP	20	3.995	1.112	sqrt(x)	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-5I (bg)	No	n/a	NP	19	0.658	0.3419	sqrt(x)	ShapiroWilk
Copper (mg/L)	GWA-1 (bg)	No	n/a	NP	7	0.006243	0.003126	ln(x)	ShapiroWilk
Copper (mg/L)	GWA-2 (bg)	No	n/a	NP	30	0.01232	0.01137	ln(x)	ShapiroWilk
Copper (mg/L)	**GWC-1R**	**Yes**	**0.00079,0.0004,0.00067,0.00072**	**NP**	**21**	**0.00408**	**0.001758**	**normal**	**ShapiroWilk**
Copper (mg/L)	GWC-2R	n/a	n/a	NP	26	0.004817	0.0009335	unknown	ShapiroWilk
Copper (mg/L)	GWC-3R	n/a	n/a	NP	21	0.004702	0.003115	unknown	ShapiroWilk
Copper (mg/L)	GWC-4R	n/a	n/a	NP	26	0.004471	0.001486	unknown	ShapiroWilk
Copper (mg/L)	GWC-5R	No	n/a	NP	21	0.003925	0.001767	ln(x)	ShapiroWilk
Copper (mg/L)	GWC-6R	No	n/a	NP	27	0.003353	0.00179	ln(x)	ShapiroWilk
Fluoride (mg/L)	GWA-2 (bg)	No	n/a	NP	18	0.1058	0.06135	ln(x)	ShapiroWilk
Fluoride (mg/L)	GWC-1R	No	n/a	NP	18	0.08944	0.02071	ln(x)	ShapiroWilk
Fluoride (mg/L)	**GWC-2R**	**Yes**	**0.03,0.04,0.05,0.58**	**NP**	**18**	**0.1156**	**0.1182**	**ln(x)**	**ShapiroWilk**
Fluoride (mg/L)	GWC-3R	No	n/a	NP	18	0.1302	0.1216	ln(x)	ShapiroWilk
Fluoride (mg/L)	GWC-4R	n/a	n/a	NP	18	0.09889	0.01967	unknown	ShapiroWilk
Fluoride (mg/L)	GWC-5R	No	n/a	NP	18	0.1101	0.09489	ln(x)	ShapiroWilk
Fluoride (mg/L)	GWC-6R	n/a	n/a	NP	18	0.1011	0.04981	unknown	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Fluoride (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	22	0.09636	0.01706	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	21	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	22	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	22	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-1D (bg)	No	n/a	NP	22	0.1303	0.1081	ln(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	22	0.09409	0.02062	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	22	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-21I (bg)	No	n/a	NP	22	0.1615	0.1147	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-2I (bg)	No	n/a	NP	22	0.1405	0.09136	ln(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	22	0.09818	0.008528	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	18	0.09961	0.037	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-3D (bg)	No	n/a	NP	22	0.4905	0.0644	ln(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-3I (bg)	No	n/a	NP	22	0.114	0.02969	ln(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	18	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-47 (bg)	No	n/a	NP	17	0.09029	0.03346	sqrt(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	22	0.1	0	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-5D (bg)	No	n/a	NP	22	0.08655	0.03731	ln(x)	ShapiroWilk
Fluoride (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	22	0.1	0	unknown	ShapiroWilk
Lead (mg/L)	GWA-1 (bg)	No	n/a	NP	7	0.009314	0.003448	normal	ShapiroWilk
Lead (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.0009757	0.000148	unknown	ShapiroWilk
Lead (mg/L)	GWC-1R	n/a	n/a	NP	28	0.0009328	0.0002467	unknown	ShapiroWilk
Lead (mg/L)	GWC-2R	n/a	n/a	NP	33	0.0008038	0.0003841	unknown	ShapiroWilk
Lead (mg/L)	GWC-3R	No	n/a	NP	28	0.0007724	0.0004018	ln(x)	ShapiroWilk
Lead (mg/L)	GWC-4R	n/a	n/a	NP	33	0.0009709	0.0001669	unknown	ShapiroWilk
Lead (mg/L)	GWC-5R	n/a	n/a	NP	28	0.0008036	0.0003837	unknown	ShapiroWilk
Lead (mg/L)	GWC-6R	n/a	n/a	NP	34	0.001	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	17	0.0008911	0.0003077	unknown	ShapiroWilk
Lead (mg/L)	YGWA-17S (bg)	No	n/a	NP	18	0.0007925	0.0003995	ln(x)	ShapiroWilk
Lead (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	19	0.0008516	0.000352	unknown	ShapiroWilk
Lead (mg/L)	YGWA-18S (bg)	No	n/a	NP	19	0.000759	0.0004144	ln(x)	ShapiroWilk
Lead (mg/L)	YGWA-1D (bg)	No	n/a	NP	17	0.0006488	0.0004472	ln(x)	ShapiroWilk
Lead (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	17	0.0009171	0.0002361	unknown	ShapiroWilk
Lead (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	19	0.0008216	0.0004008	unknown	ShapiroWilk
Lead (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	19	0.0009498	0.0002189	unknown	ShapiroWilk
Lead (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	17	0.0009559	0.0002091	unknown	ShapiroWilk
Lead (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	17	0.0009439	0.0002314	unknown	ShapiroWilk
Lead (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	17	0.0008442	0.000348	unknown	ShapiroWilk
Lead (mg/L)	YGWA-3D (bg)	No	n/a	NP	17	0.0007782	0.0003654	ln(x)	ShapiroWilk
Lead (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	17	0.00095	0.0002062	unknown	ShapiroWilk
Lead (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.0008899	0.000311	unknown	ShapiroWilk
Lead (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	14	0.001	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	19	0.001	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-5D (bg)	No	n/a	NP	19	0.0007568	0.0004184	ln(x)	ShapiroWilk
Lead (mg/L)	YGWA-5I (bg)	No	n/a	NP	19	0.0007052	0.000446	ln(x)	ShapiroWilk
Lithium (mg/L)	GWA-2 (bg)	No	n/a	NP	16	0.09521	0.1238	ln(x)	ShapiroWilk
Lithium (mg/L)	**GWC-1R**	**Yes**	**0.05,0.05,0.05**	**NP**	**16**	**0.01064**	**0.01953**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	**GWC-2R**	**Yes**	**0.05,0.05,0.05**	**NP**	**16**	**0.01271**	**0.01851**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	GWC-3R	No	n/a	NP	16	0.02275	0.01297	ln(x)	ShapiroWilk
Lithium (mg/L)	GWC-4R	No	n/a	NP	16	0.02097	0.01384	ln(x)	ShapiroWilk
Lithium (mg/L)	GWC-5R	No	n/a	NP	16	0.02576	0.02504	ln(x)	ShapiroWilk
Lithium (mg/L)	GWC-6R	No	n/a	NP	16	0.06464	0.1105	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	21	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	20	0.02734	0.008172	unknown	ShapiroWilk
Lithium (mg/L)	**YGWA-18I (bg)**	**Yes**	**0.05**	**NP**	**21**	**0.006367**	**0.01013**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	**YGWA-18S (bg)**	**Yes**	**0.015**	**NP**	**21**	**0.003157**	**0.002887**	**ln(x)**	**ShapiroWilk**

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Lithium (mg/L)	YGWA-1D (bg)	No	n/a	NP	21	0.01169	0.003382	x^2	ShapiroWilk
Lithium (mg/L)	**YGWA-1I (bg)**	**Yes**	**0.05,0.05,0.05**	**NP**	**21**	**0.009181**	**0.01708**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	21	0.02861	0.006368	unknown	ShapiroWilk
Lithium (mg/L)	**YGWA-21I (bg)**	**Yes**	**0.05**	**NP**	**21**	**0.007957**	**0.009654**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	**YGWA-2I (bg)**	**Yes**	**0.25,0.25**	**NP**	**21**	**0.02619**	**0.07442**	**ln(x)**	**ShapiroWilk**
Lithium (mg/L)	YGWA-30I (bg)	No	n/a	NP	21	0.0221	0.02476	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.006947	0.01134	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-3D (bg)	No	n/a	NP	21	0.02067	0.002326	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-3I (bg)	No	n/a	NP	21	0.01316	0.004113	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.02828	0.007092	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-47 (bg)	No	n/a	NP	16	0.004475	0.0008828	ln(x)	ShapiroWilk
Lithium (mg/L)	YGWA-4I (bg)	No	n/a	NP	21	0.013	0.00138	x^5	ShapiroWilk
Lithium (mg/L)	YGWA-5D (bg)	No	n/a	NP	21	0.005719	0.001622	x^4	ShapiroWilk
Lithium (mg/L)	**YGWA-5I (bg)**	**Yes**	**0.05,0.05**	**NP**	**21**	**0.007662**	**0.01408**	**ln(x)**	**ShapiroWilk**
Mercury (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.0001916	0.00003651	unknown	ShapiroWilk
Mercury (mg/L)	GWC-1R	n/a	n/a	NP	28	0.000195	0.00002665	unknown	ShapiroWilk
Mercury (mg/L)	GWC-2R	n/a	n/a	NP	33	0.0001961	0.00002246	unknown	ShapiroWilk
Mercury (mg/L)	GWC-3R	n/a	n/a	NP	28	0.0001967	0.00006263	unknown	ShapiroWilk
Mercury (mg/L)	GWC-4R	n/a	n/a	NP	33	0.0001939	0.00002653	unknown	ShapiroWilk
Mercury (mg/L)	GWC-5R	n/a	n/a	NP	28	0.000195	0.00002646	unknown	ShapiroWilk
Mercury (mg/L)	GWC-6R	n/a	n/a	NP	34	0.0001905	0.00003902	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	15	0.0001907	0.00003589	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	15	0.000193	0.00002711	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	16	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	16	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	15	0.0001794	0.0000544	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	15	0.0001903	0.0000377	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	16	0.0001935	0.000026	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	16	0.0001935	0.000026	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	15	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	15	0.0001833	0.00004406	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	14	0.0001907	0.00003474	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	15	0.0001839	0.00004306	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	15	0.000183	0.00004507	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-40 (bg)	No	n/a	NP	14	0.000169	0.00005487	normal	ShapiroWilk
Mercury (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	12	0.0001877	0.00004244	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	16	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	16	0.0002	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	16	0.0002	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWA-2 (bg)	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-1R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-2R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-3R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-4R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-5R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	GWC-6R	n/a	n/a	NP	12	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	21	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-1D (bg)	No	n/a	NP	21	0.009457	0.001781	ln(x)	ShapiroWilk
Molybdenum (mg/L)	YGWA-1I (bg)	No	n/a	NP	21	0.007819	0.002031	sqrt(x)	ShapiroWilk
Molybdenum (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	17	0.008912	0.003072	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-2I (bg)	No	n/a	NP	21	0.004962	0.001338	ln(x)	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Molybdenum (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	21	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-39 (bg)	No	n/a	NP	17	0.004282	0.002895	ln(x)	ShapiroWilk
Molybdenum (mg/L)	YGWA-3D (bg)	No	n/a	NP	21	0.0115	0.00136	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-3I (bg)	No	n/a	NP	21	0.005019	0.002607	ln(x)	ShapiroWilk
Molybdenum (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-5D (bg)	No	n/a	NP	17	0.004074	0.003177	x^(1/3)	ShapiroWilk
Molybdenum (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	17	0.01	0	unknown	ShapiroWilk
Nickel (mg/L)	GWA-1 (bg)	n/a	n/a	NP	7	0.0043	0.0007937	unknown	ShapiroWilk
Nickel (mg/L)	GWA-2 (bg)	No	n/a	NP	30	0.009243	0.00766	ln(x)	ShapiroWilk
Nickel (mg/L)	GWC-1R	No	n/a	NP	21	0.004695	0.003814	ln(x)	ShapiroWilk
Nickel (mg/L)	GWC-2R	No	n/a	NP	26	0.004609	0.002417	normal	ShapiroWilk
Nickel (mg/L)	GWC-3R	n/a	n/a	NP	21	0.004546	0.001156	unknown	ShapiroWilk
Nickel (mg/L)	GWC-4R	No	n/a	NP	26	0.00652	0.004178	ln(x)	ShapiroWilk
Nickel (mg/L)	GWC-5R	No	n/a	NP	21	0.002376	0.001116	ln(x)	ShapiroWilk
Nickel (mg/L)	GWC-6R	No	n/a	NP	27	0.003841	0.001616	ln(x)	ShapiroWilk
pH (S.U.)	GWA-2 (bg)	No	n/a	NP	31	6.172	0.3927	ln(x)	ShapiroWilk
pH (S.U.)	**GWC-1R**	**Yes**	**4.49,6.8**	**NP**	**19**	**5.401**	**0.4226**	**ln(x)**	**ShapiroWilk**
pH (S.U.)	**GWC-2R**	**Yes**	**4.35,6.37,6.8**	**NP**	**26**	**5.468**	**0.4282**	**ln(x)**	**ShapiroWilk**
pH (S.U.)	GWC-3R	No	n/a	NP	19	5.073	0.244	x^6	ShapiroWilk
pH (S.U.)	**GWC-4R**	**Yes**	**6.16**	**NP**	**20**	**5.534**	**0.2008**	**ln(x)**	**ShapiroWilk**
pH (S.U.)	GWC-5R	No	n/a	NP	20	5.071	0.2289	ln(x)	ShapiroWilk
pH (S.U.)	**GWC-6R**	**Yes**	**5.31,6.79,5.2**	**NP**	**29**	**5.906**	**0.2903**	**ln(x)**	**ShapiroWilk**
pH (S.U.)	**YGWA-14S (bg)**	**Yes**	**5.02,7.32,4.5**	**NP**	**22**	**5.441**	**0.473**	**ln(x)**	**ShapiroWilk**
pH (S.U.)	**YGWA-17S (bg)**	**Yes**	**5.27**	**NP**	**21**	**5.554**	**0.08599**	**x^6**	**ShapiroWilk**
pH (S.U.)	**YGWA-18I (bg)**	**Yes**	**5.4**	**NP**	**22**	**6.003**	**0.1681**	**x^6**	**ShapiroWilk**
pH (S.U.)	**YGWA-18S (bg)**	**Yes**	**4.4**	**NP**	**22**	**5.312**	**0.2587**	**x^6**	**ShapiroWilk**
pH (S.U.)	YGWA-1D (bg)	No	n/a	NP	22	7.099	0.2646	x^6	ShapiroWilk
pH (S.U.)	YGWA-1I (bg)	No	n/a	NP	22	6.13	0.2184	x^6	ShapiroWilk
pH (S.U.)	YGWA-20S (bg)	No	n/a	NP	22	5.813	0.1192	x^2	ShapiroWilk
pH (S.U.)	YGWA-21I (bg)	No	n/a	NP	22	6.567	0.3522	x^2	ShapiroWilk
pH (S.U.)	**YGWA-2I (bg)**	**Yes**	**7.92,5.89**	**NP**	**22**	**7.167**	**0.3433**	**x^6**	**ShapiroWilk**
pH (S.U.)	YGWA-30I (bg)	No	n/a	NP	21	5.718	0.1261	x^5	ShapiroWilk
pH (S.U.)	YGWA-39 (bg)	No	n/a	NP	18	6.126	0.4676	ln(x)	ShapiroWilk
pH (S.U.)	**YGWA-3D (bg)**	**Yes**	**5.34**	**NP**	**22**	**7.625**	**0.5523**	**x^6**	**ShapiroWilk**
pH (S.U.)	YGWA-3I (bg)	No	n/a	NP	22	7.561	0.2229	ln(x)	ShapiroWilk
pH (S.U.)	YGWA-40 (bg)	No	n/a	NP	18	5.263	0.2316	ln(x)	ShapiroWilk
pH (S.U.)	**YGWA-47 (bg)**	**Yes**	**4.88**	**NP**	**16**	**5.516**	**0.2008**	**x^6**	**ShapiroWilk**
pH (S.U.)	YGWA-4I (bg)	No	n/a	NP	22	6.135	0.161	x^6	ShapiroWilk
pH (S.U.)	YGWA-5D (bg)	No	n/a	NP	21	7.317	0.2201	x^2	ShapiroWilk
pH (S.U.)	**YGWA-5I (bg)**	**Yes**	**5.14**	**NP**	**22**	**5.672**	**0.1556**	**x^6**	**ShapiroWilk**
Selenium (mg/L)	GWA-1 (bg)	n/a	n/a	NP	7	0.01243	0.001134	unknown	ShapiroWilk
Selenium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	37	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	GWC-1R	No	n/a	NP	28	0.008543	0.004697	sqrt(x)	ShapiroWilk
Selenium (mg/L)	GWC-2R	No	n/a	NP	33	0.006455	0.003573	ln(x)	ShapiroWilk
Selenium (mg/L)	GWC-3R	No	n/a	NP	28	0.00765	0.003791	normal	ShapiroWilk
Selenium (mg/L)	GWC-4R	No	n/a	NP	33	0.007352	0.003791	x^(1/3)	ShapiroWilk
Selenium (mg/L)	GWC-5R	No	n/a	NP	28	0.02153	0.008466	ln(x)	ShapiroWilk
Selenium (mg/L)	GWC-6R	No	n/a	NP	34	0.004109	0.001261	x^2	ShapiroWilk
Selenium (mg/L)	YGWA-14S (bg)	No	n/a	NP	19	0.003874	0.00171	ln(x)	ShapiroWilk
Selenium (mg/L)	YGWA-17S (bg)	No	n/a	NP	20	0.003915	0.001705	ln(x)	ShapiroWilk
Selenium (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk

Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Selenium (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	21	0.004613	0.00123	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	17	0.004794	0.0008489	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	19	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-40 (bg)	No	n/a	NP	17	0.003494	0.001375	ln(x)	ShapiroWilk
Selenium (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	12	0.0044	0.001407	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	21	0.004657	0.001094	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	21	0.004805	0.0008947	unknown	ShapiroWilk
Silver (mg/L)	GWA-2 (bg)	n/a	n/a	NP	30	0.005	0	unknown	ShapiroWilk
Silver (mg/L)	GWC-1R	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Silver (mg/L)	GWC-2R	n/a	n/a	NP	26	0.005	0	unknown	ShapiroWilk
Silver (mg/L)	GWC-3R	n/a	n/a	NP	21	0.005	0	unknown	ShapiroWilk
Silver (mg/L)	GWC-4R	n/a	n/a	NP	26	0.005	0	unknown	ShapiroWilk
Silver (mg/L)	GWC-5R	n/a	n/a	NP	21	0.004802	0.0009078	unknown	ShapiroWilk
Silver (mg/L)	GWC-6R	n/a	n/a	NP	27	0.005	0	unknown	ShapiroWilk
Thallium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	36	0.0008957	0.0002992	unknown	ShapiroWilk
Thallium (mg/L)	GWC-1R	n/a	n/a	NP	27	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	GWC-2R	n/a	n/a	NP	31	0.00097	0.000167	unknown	ShapiroWilk
Thallium (mg/L)	GWC-3R	n/a	n/a	NP	27	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	GWC-4R	n/a	n/a	NP	32	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	GWC-5R	n/a	n/a	NP	27	0.0009649	0.0001823	unknown	ShapiroWilk
Thallium (mg/L)	GWC-6R	n/a	n/a	NP	33	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-14S (bg)	n/a	n/a	NP	15	0.0009393	0.0002352	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-17S (bg)	n/a	n/a	NP	16	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-18I (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-18S (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1D (bg)	n/a	n/a	NP	15	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1I (bg)	n/a	n/a	NP	15	0.000937	0.000244	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-20S (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-21I (bg)	n/a	n/a	NP	18	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-2I (bg)	n/a	n/a	NP	15	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-30I (bg)	n/a	n/a	NP	15	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-39 (bg)	n/a	n/a	NP	14	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3D (bg)	n/a	n/a	NP	15	0.00094	0.0002324	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3I (bg)	n/a	n/a	NP	15	0.000944	0.0002169	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-40 (bg)	n/a	n/a	NP	14	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-47 (bg)	n/a	n/a	NP	14	0.0008673	0.0003374	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-4I (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-5D (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-5I (bg)	n/a	n/a	NP	17	0.001	0	unknown	ShapiroWilk
Vanadium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	32	0.008966	0.002504	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-1R	n/a	n/a	NP	23	0.008998	0.002744	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-2R	n/a	n/a	NP	28	0.009671	0.001741	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-3R	n/a	n/a	NP	23	0.00927	0.002425	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-4R	n/a	n/a	NP	28	0.009674	0.001724	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-5R	n/a	n/a	NP	23	0.008922	0.002852	unknown	ShapiroWilk
Vanadium (mg/L)	GWC-6R	n/a	n/a	NP	29	0.008311	0.0034	unknown	ShapiroWilk
Zinc (mg/L)	GWA-1 (bg)	No	n/a	NP	7	0.01396	0.005213	normal	ShapiroWilk
Zinc (mg/L)	GWA-2 (bg)	No	n/a	NP	31	0.008955	0.008056	ln(x)	ShapiroWilk
Zinc (mg/L)	GWC-1R	No	n/a	NP	23	0.00567	0.003546	ln(x)	ShapiroWilk

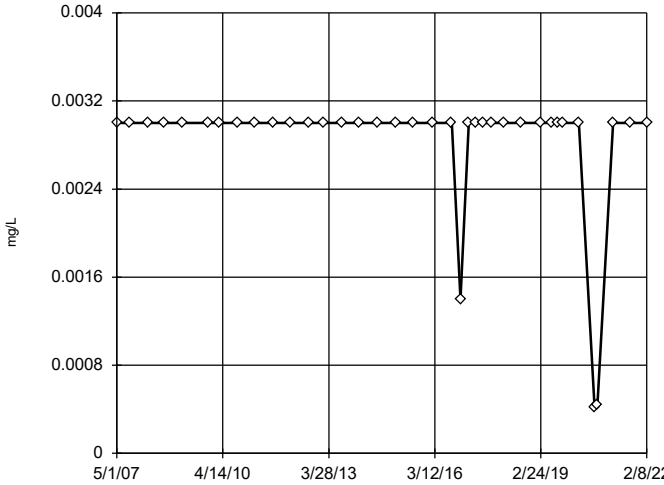
Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 2:53 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Zinc (mg/L)	GWC-2R	No	n/a	NP	28	0.005268	0.003227	ln(x)	ShapiroWilk
Zinc (mg/L)	GWC-3R	No	n/a	NP	22	0.007459	0.005022	ln(x)	ShapiroWilk
Zinc (mg/L)	GWC-4R	No	n/a	NP	27	0.00783	0.003508	x^(1/3)	ShapiroWilk
Zinc (mg/L)	GWC-5R	No	n/a	NP	24	0.01228	0.007752	sqrt(x)	ShapiroWilk
Zinc (mg/L)	GWC-6R	No	n/a	NP	29	0.006359	0.003445	ln(x)	ShapiroWilk

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

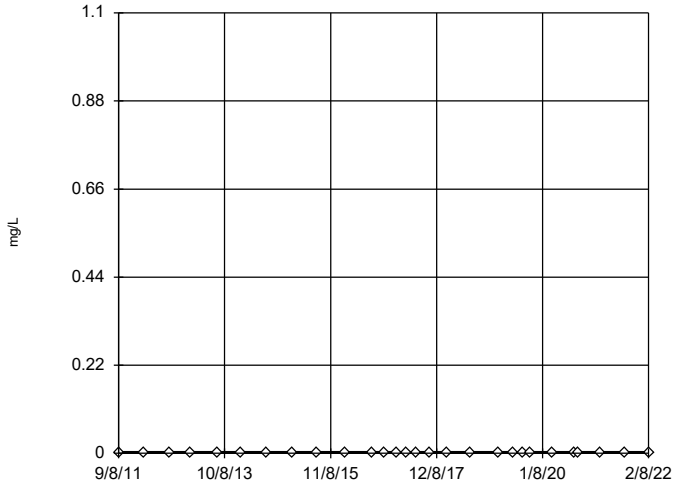
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

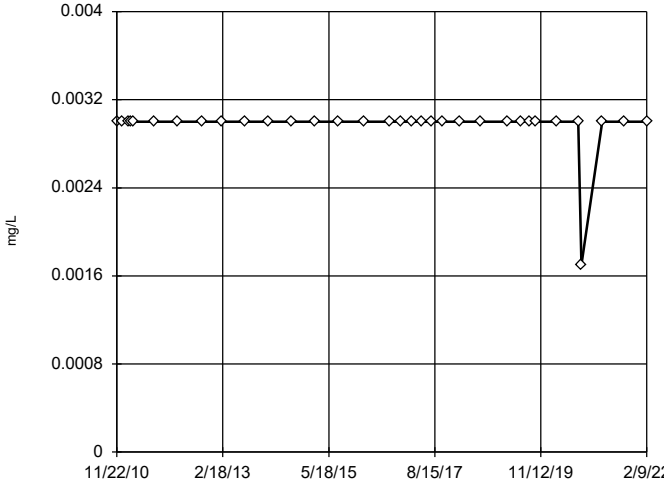
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

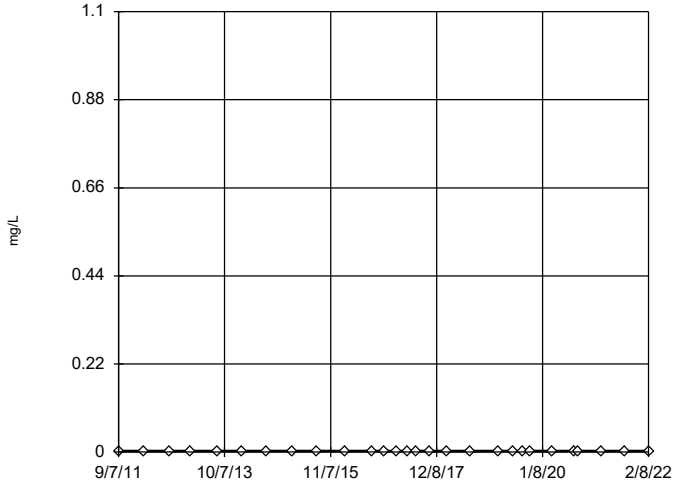
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

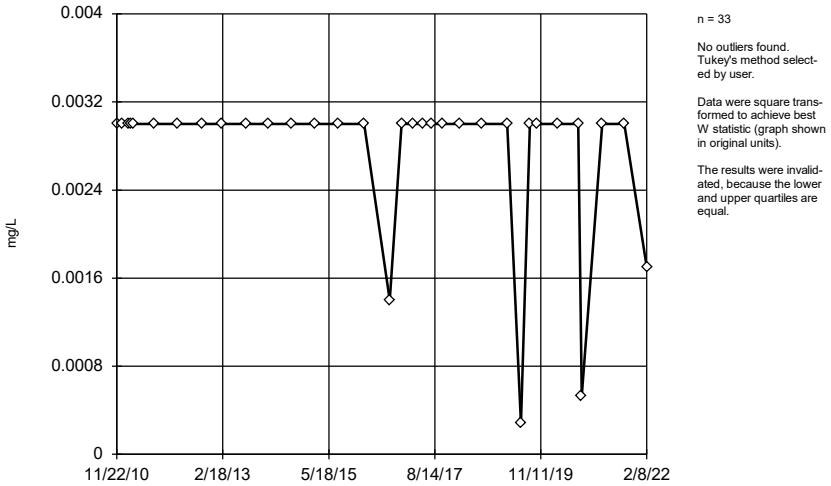
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

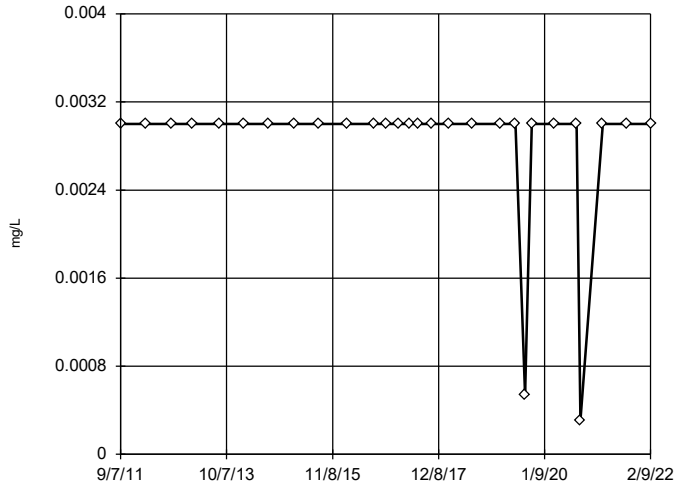
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

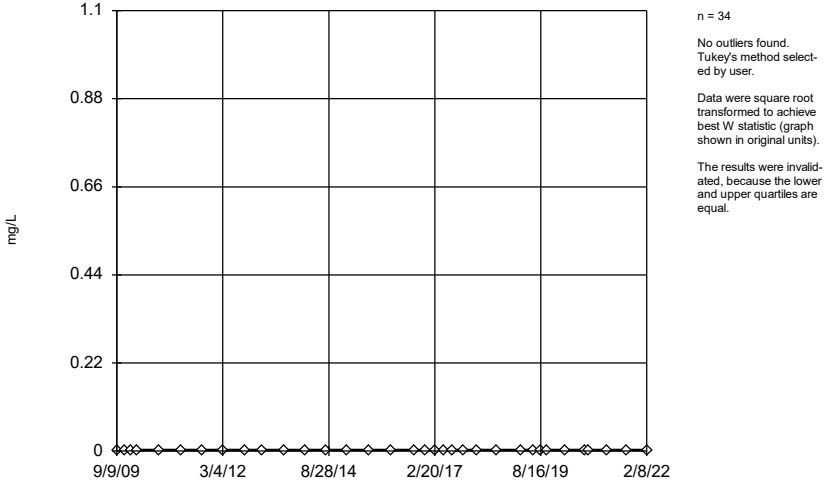
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

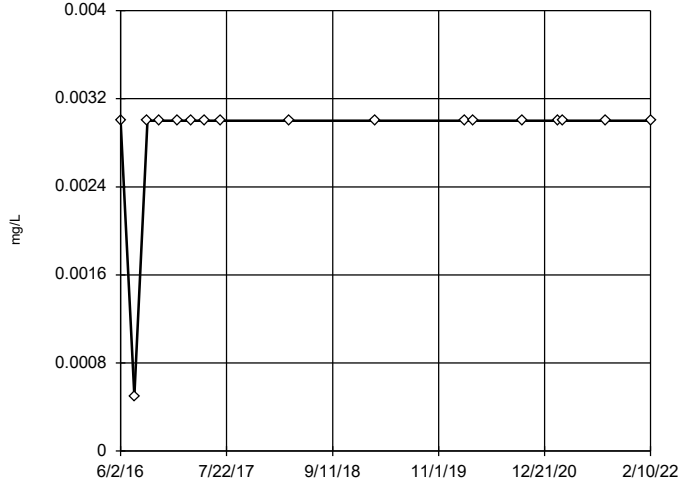
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

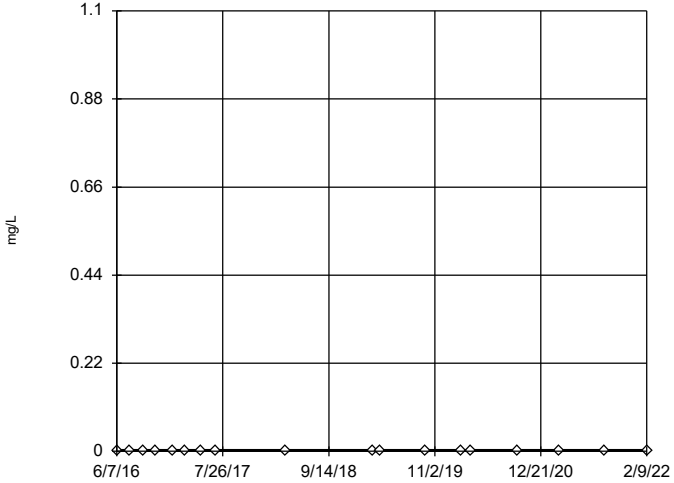
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-17S (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

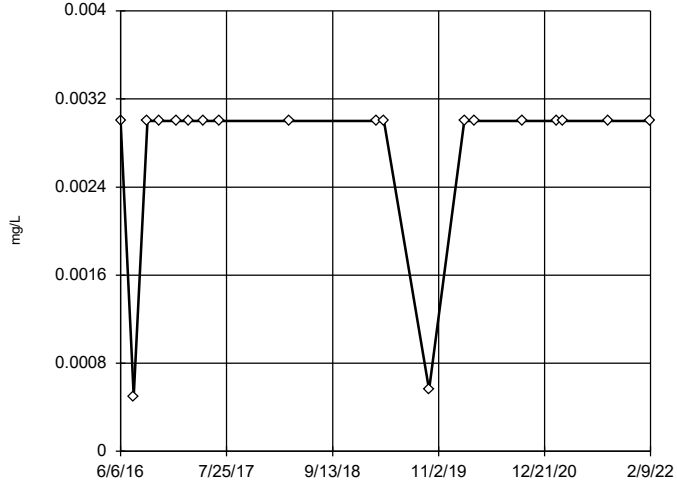
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

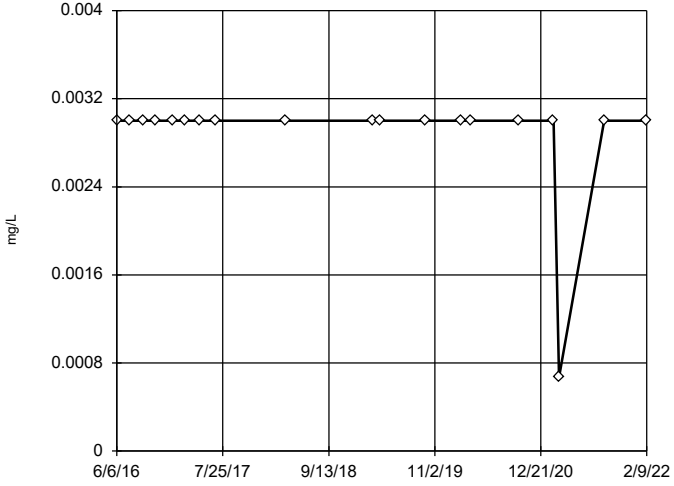
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

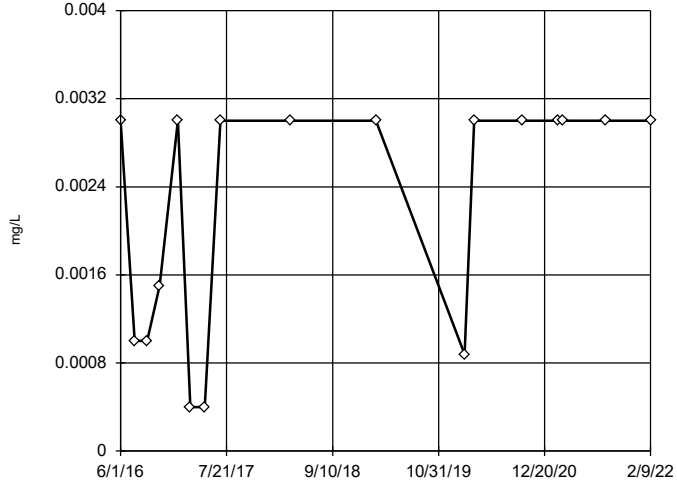
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 17

No outliers found. Tukey's method selected by user.

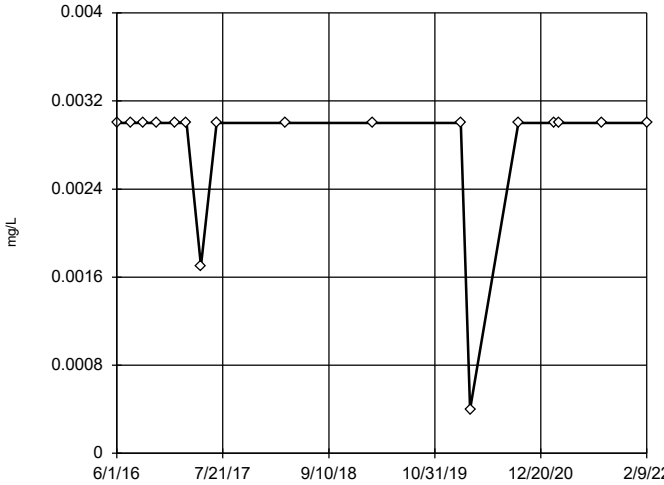
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02123, low cutoff = -0.00003489, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

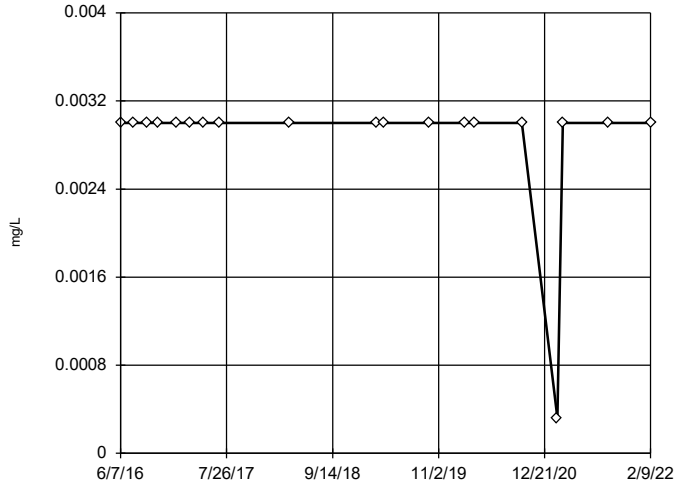
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

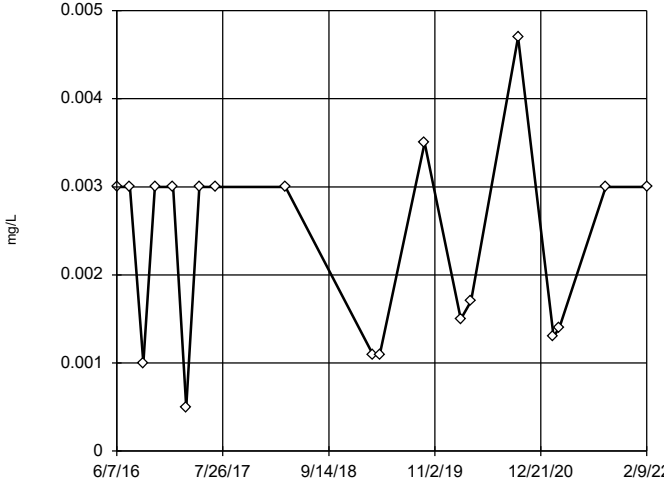
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

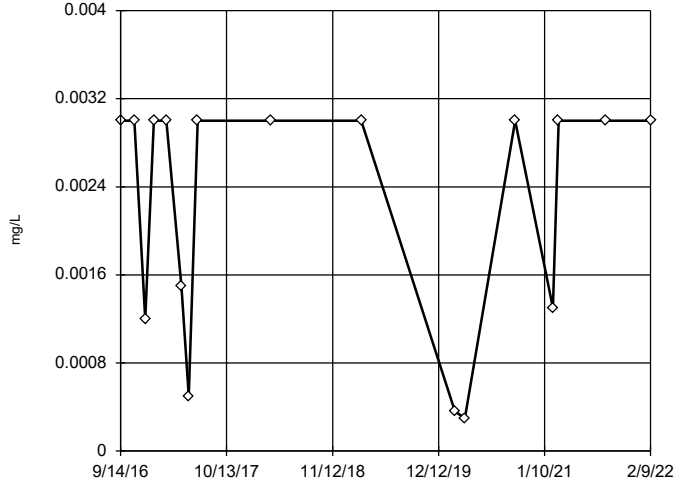
High cutoff = 0.0123, low cutoff = -0.0004038, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 17

No outliers found. Tukey's method selected by user.

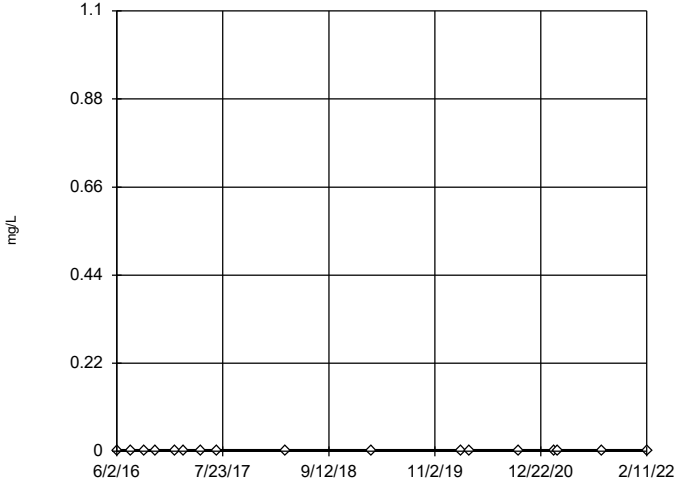
Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01278, low cutoff = -0.0005255, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-30I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

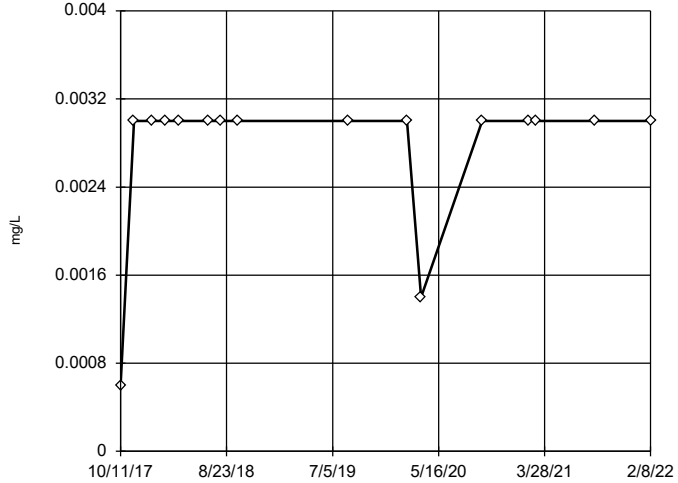
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

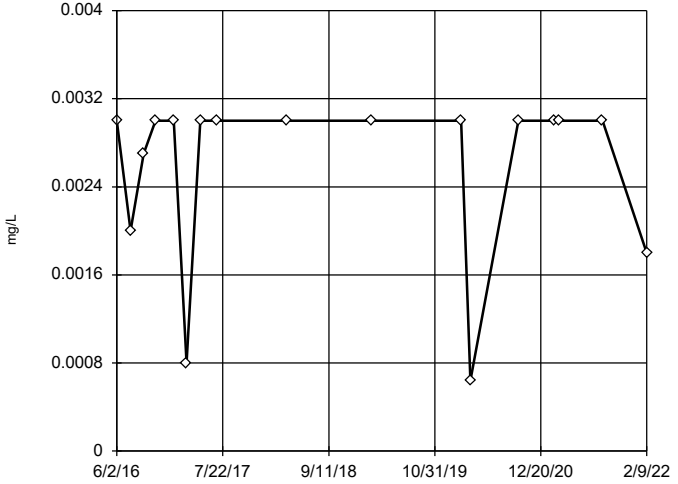
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.004051, low cutoff = -0.002949, based on IQR multiplier of 3.

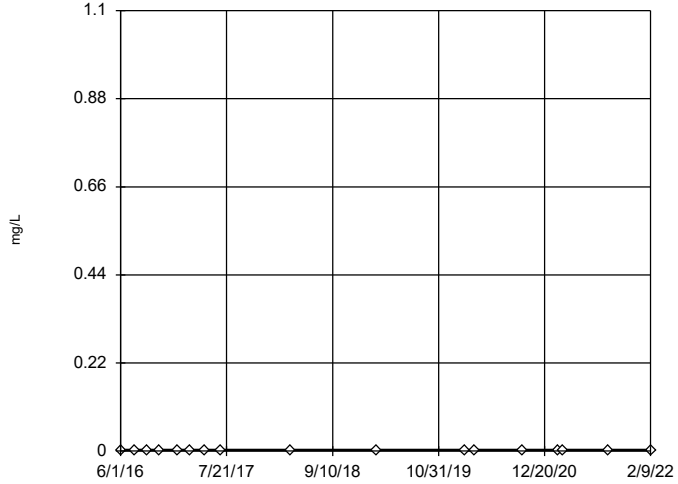
Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

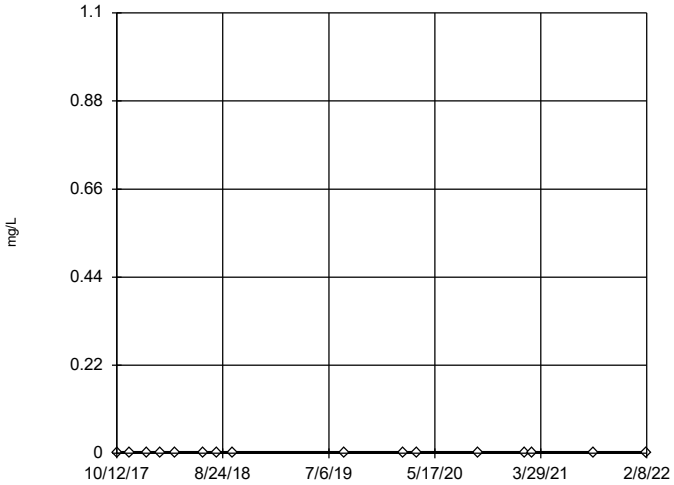
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-40 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

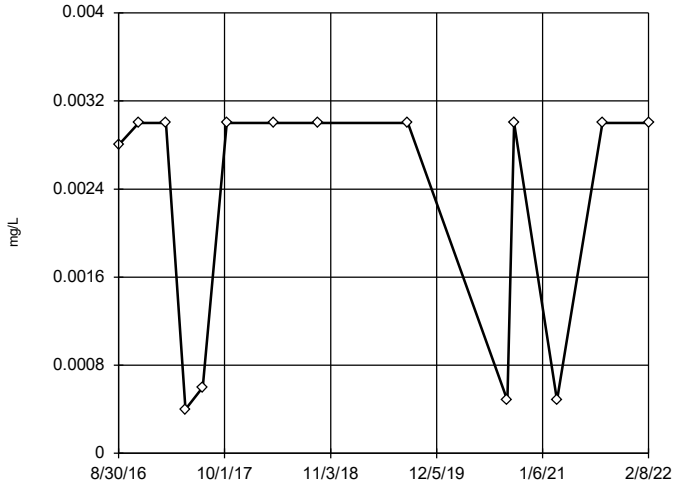
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

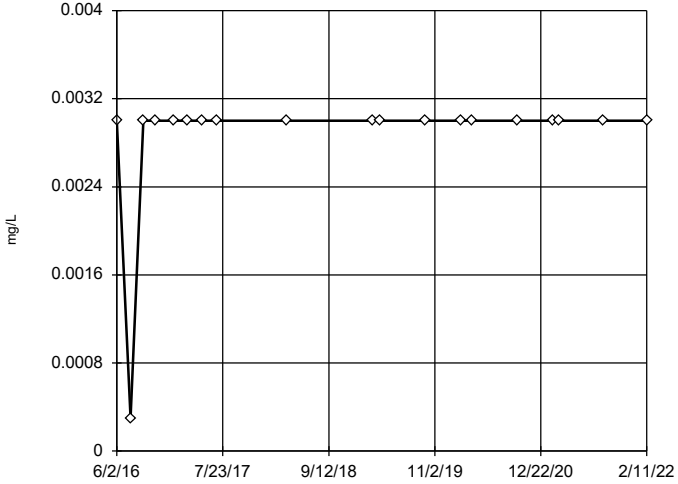
The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

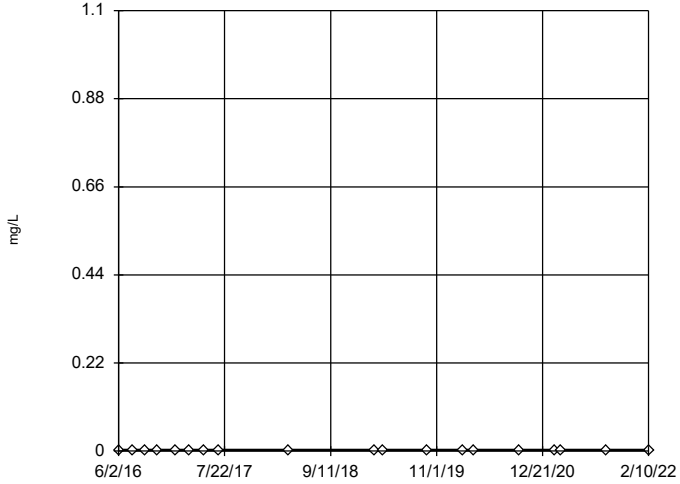
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 19

No outliers found. Tukey's method selected by user.

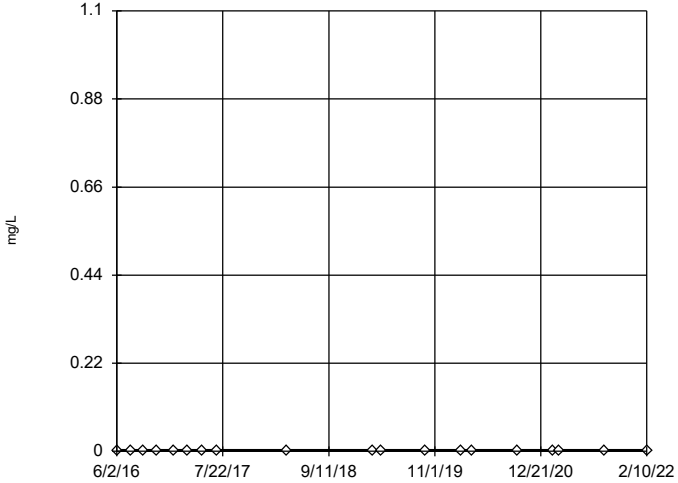
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5I (bg)



n = 19

No outliers found.
Tukey's method select-ed by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

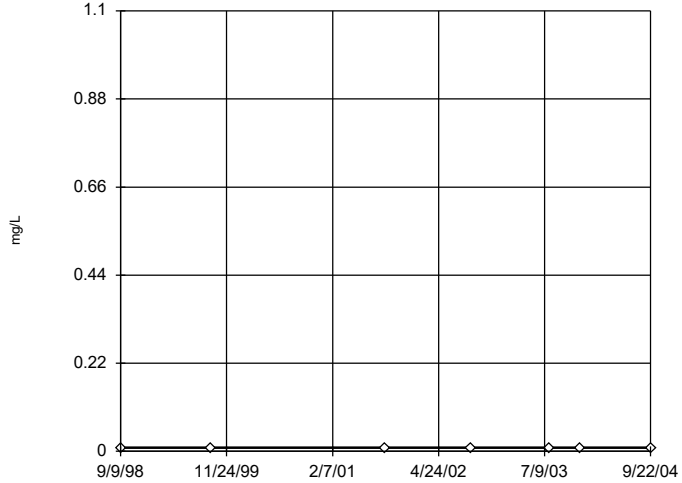
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found.
Tukey's method select-ed by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

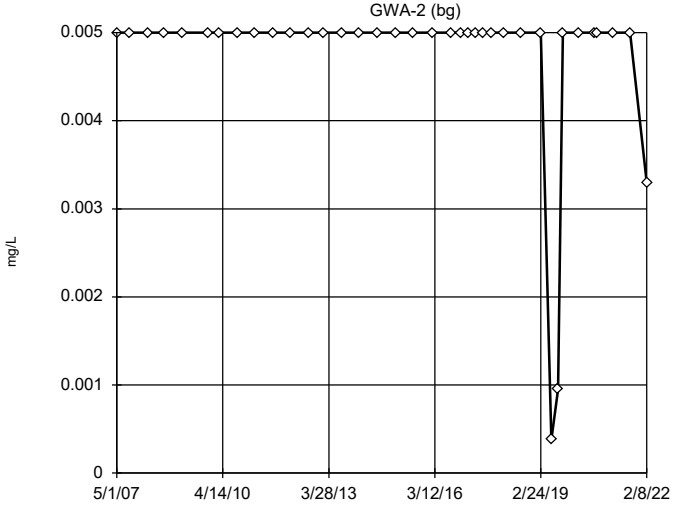
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found.
Tukey's method select-ed by user.

Data were cube transform-ed to achieve best W stat-istic (graph shown in original units).

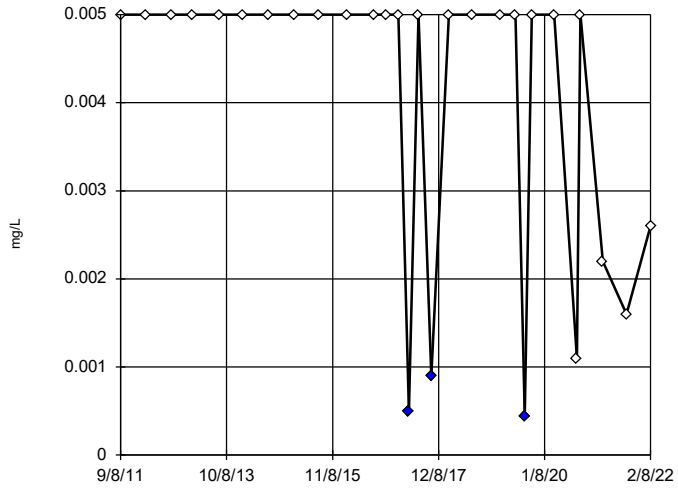
The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

Outliers are drawn as solid.
Tukey's method select-ed by user.

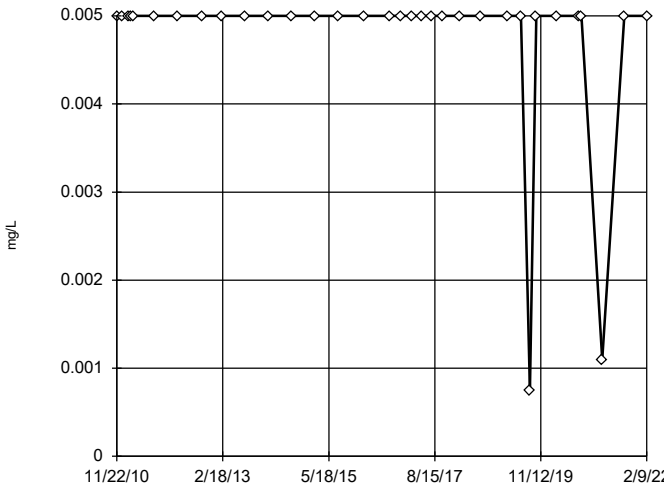
Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01006, low cutoff = 0.0009778, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

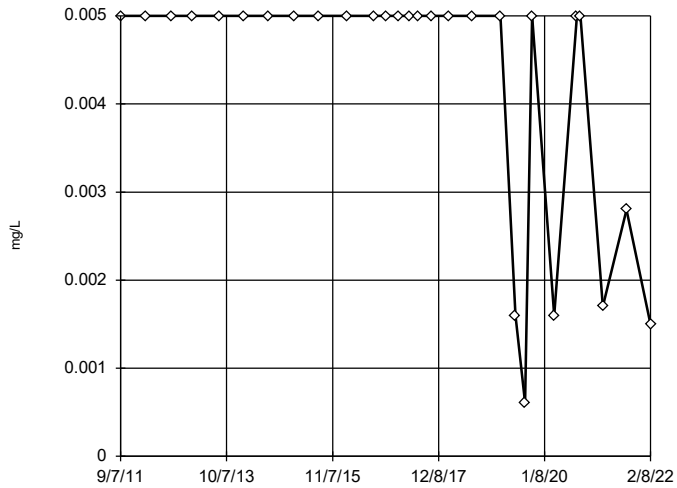
Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

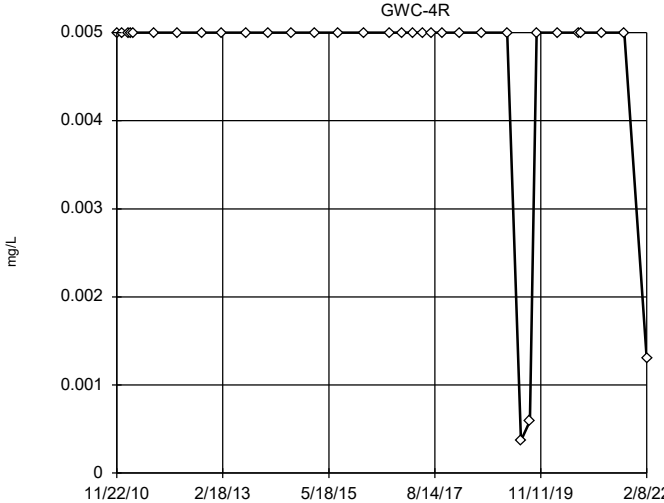
Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

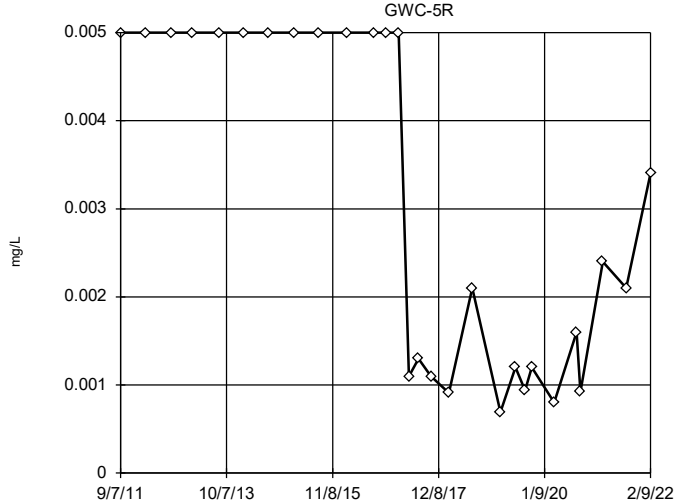
Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

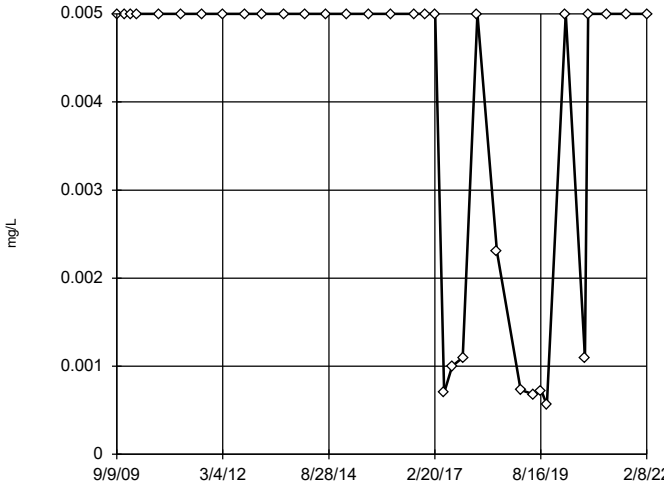
High cutoff = 0.4121, low cutoff = 0.00001394, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 3/16/2022 2:37 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1553, low cutoff = 0.00005121, based on IQR multiplier of 3.

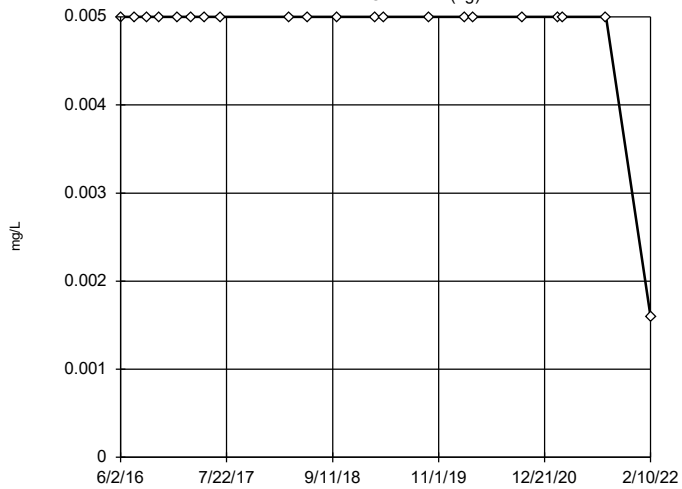
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

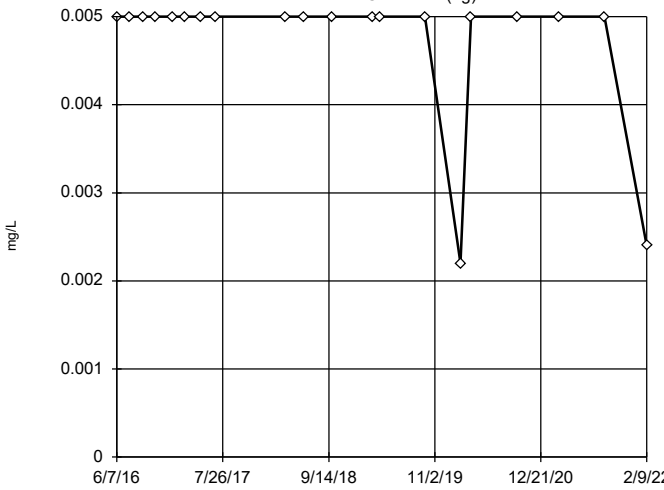
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

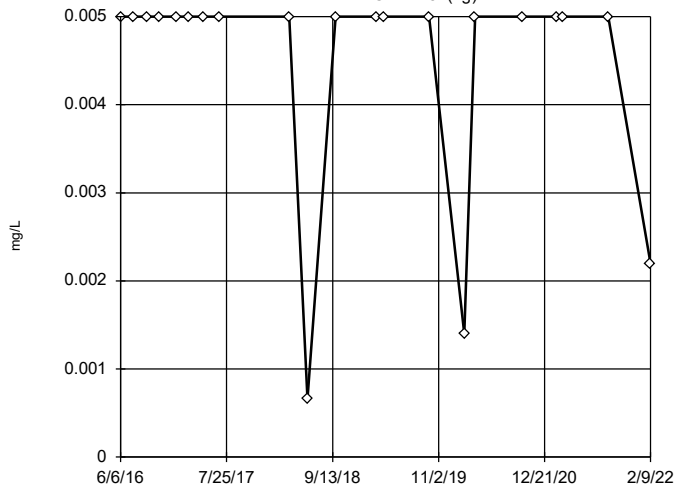
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

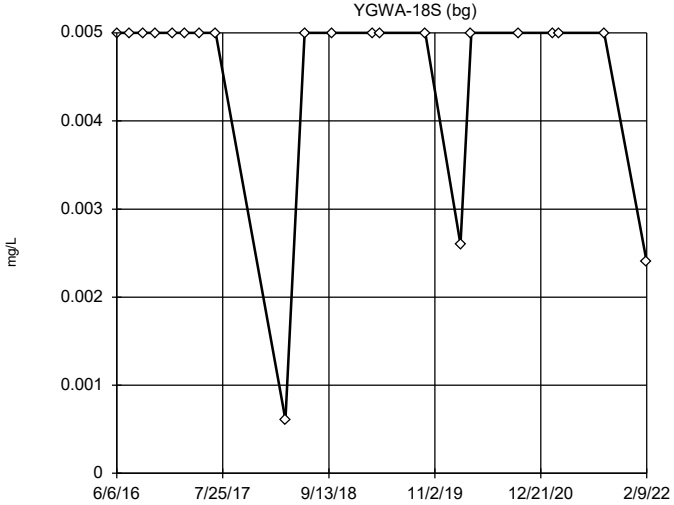
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

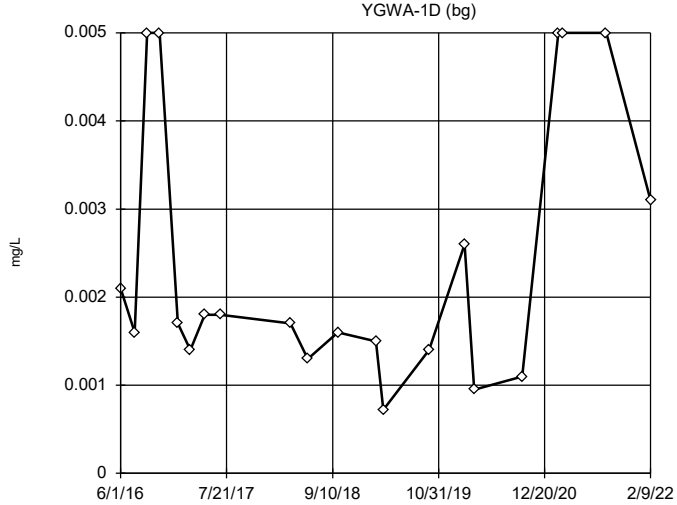
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.08755, low cutoff = 0.00006295, based on IQR multiplier of 3.

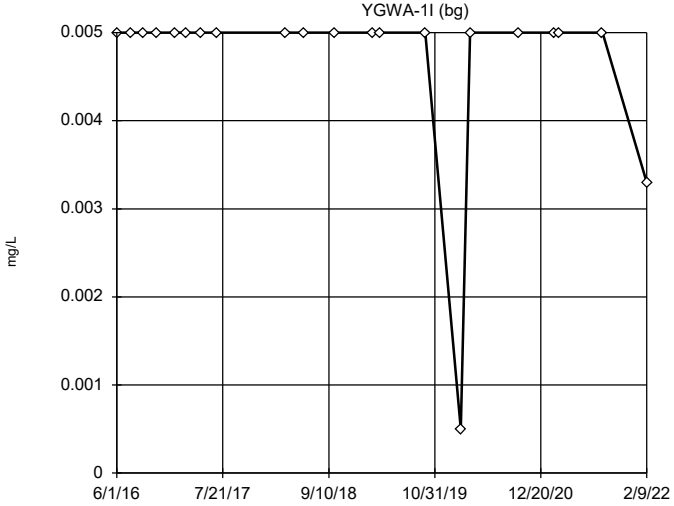
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

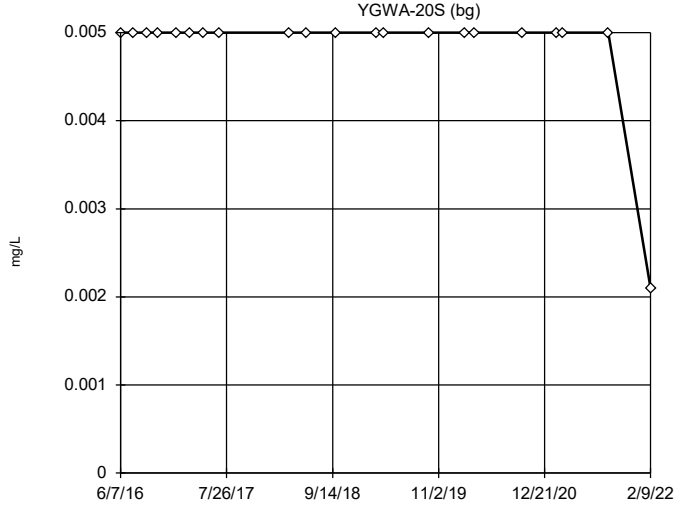
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

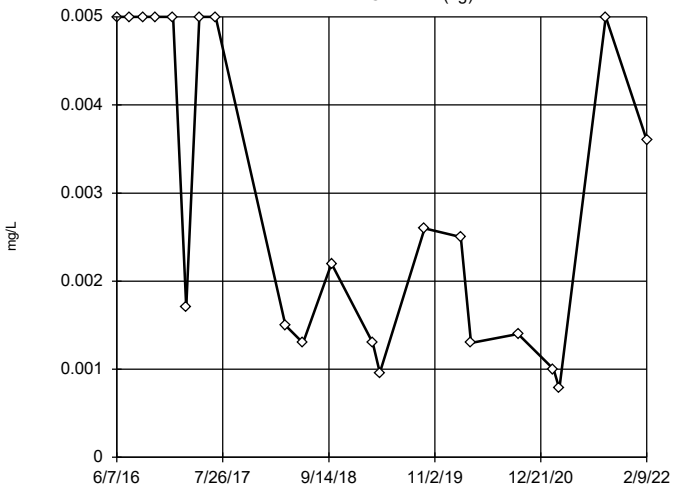
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2845, low cutoff = 0.00002285, based on IQR multiplier of 3.

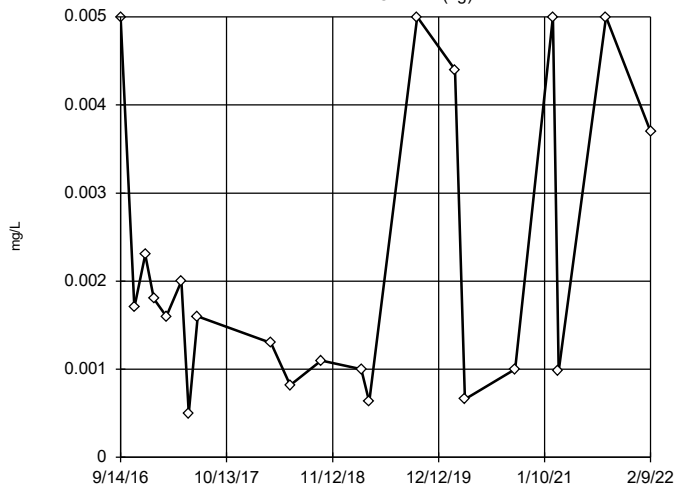
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2732, low cutoff = 0.00001462, based on IQR multiplier of 3.

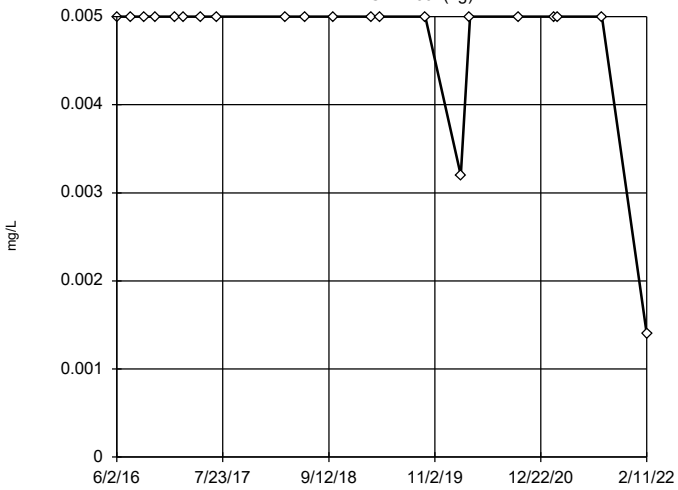
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

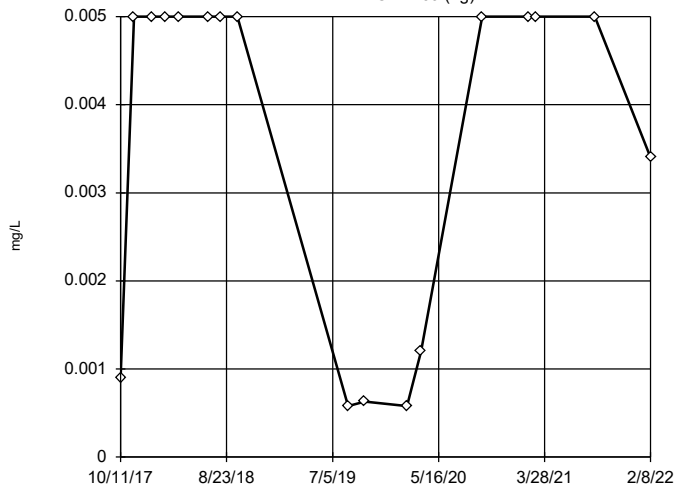
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

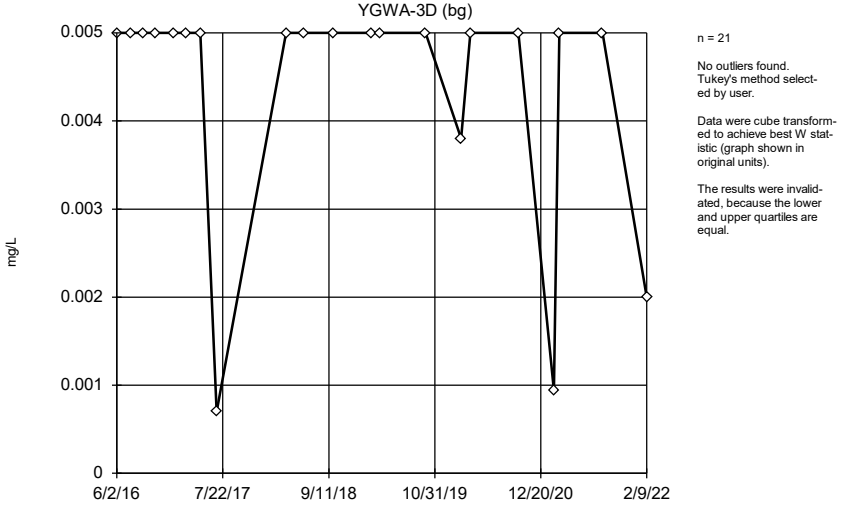
High cutoff = 0.5569, low cutoff = 0.000009331, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

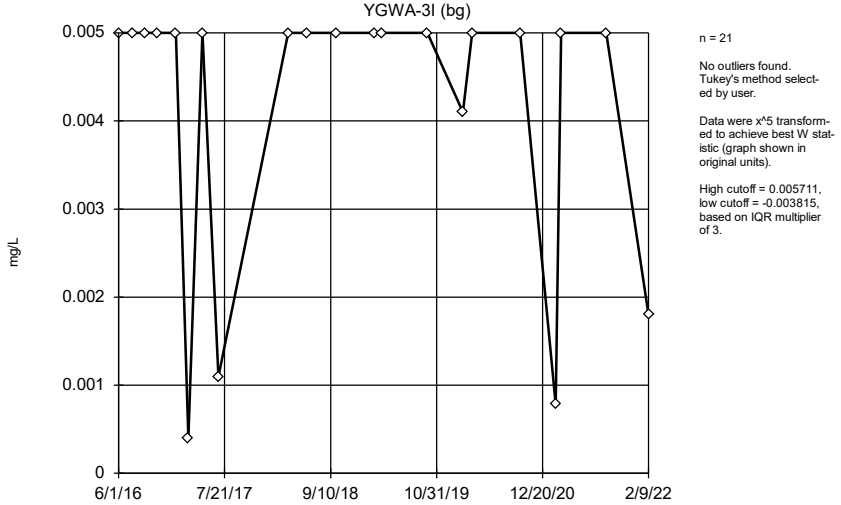
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.005711, low cutoff = -0.003815, based on IQR multiplier of 3.

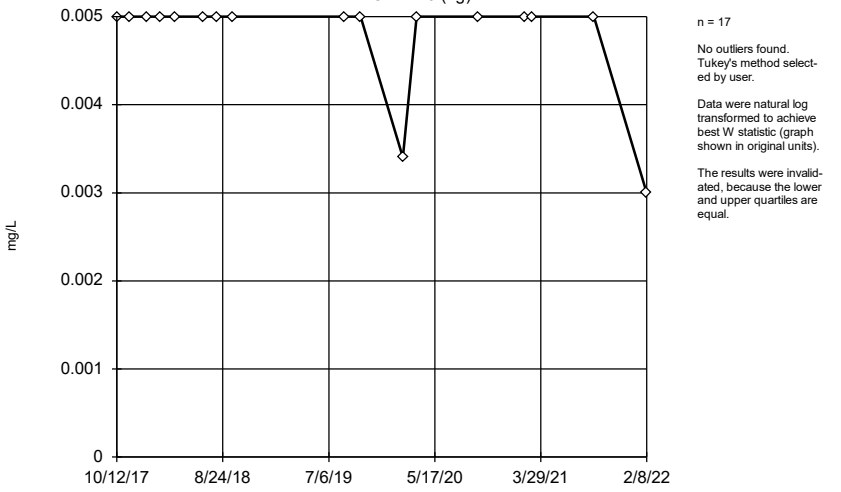
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

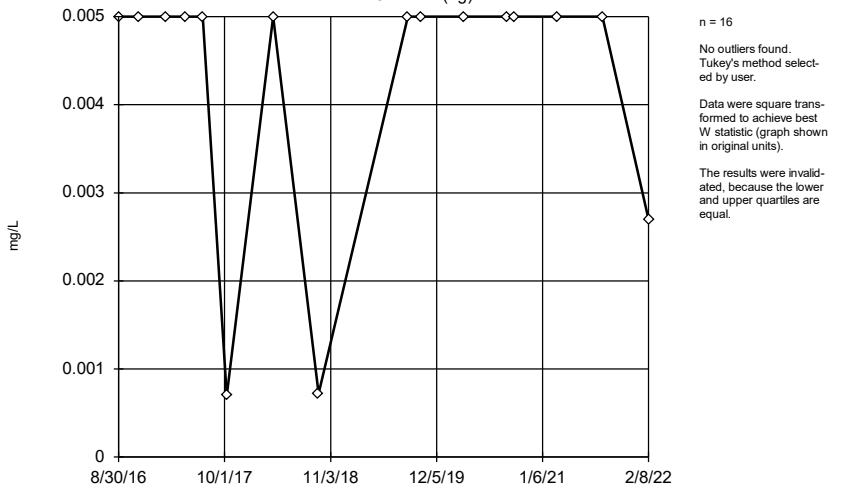
Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

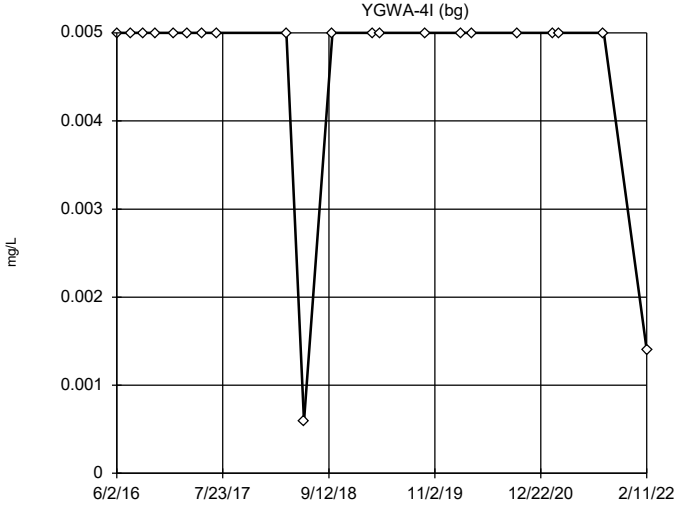
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

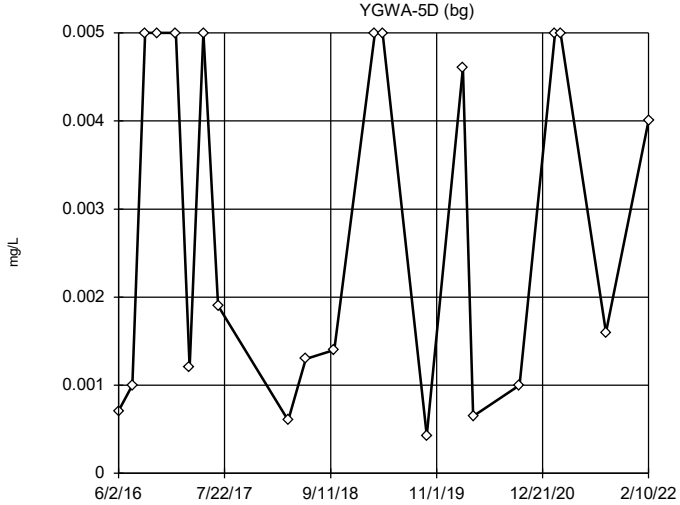
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

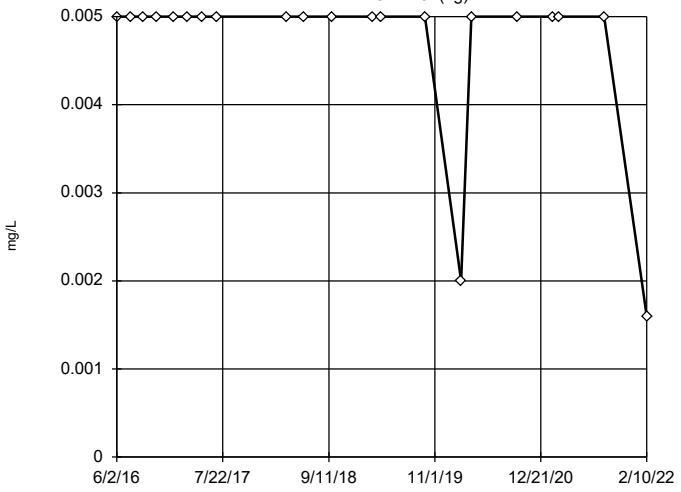
High cutoff = 0.625, low cutoff = 0.000008, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

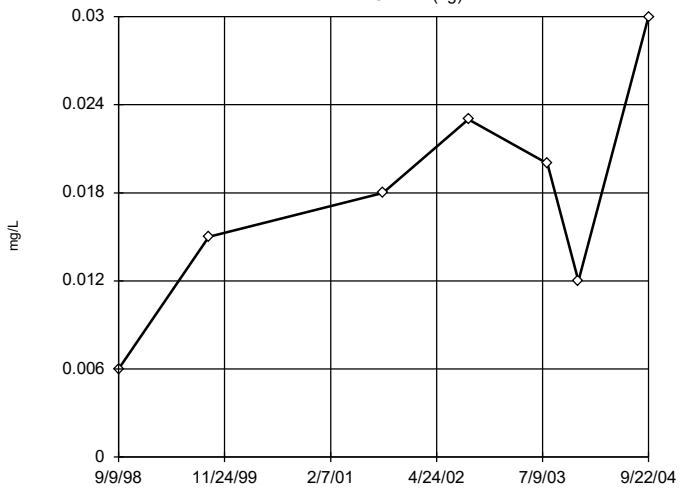
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

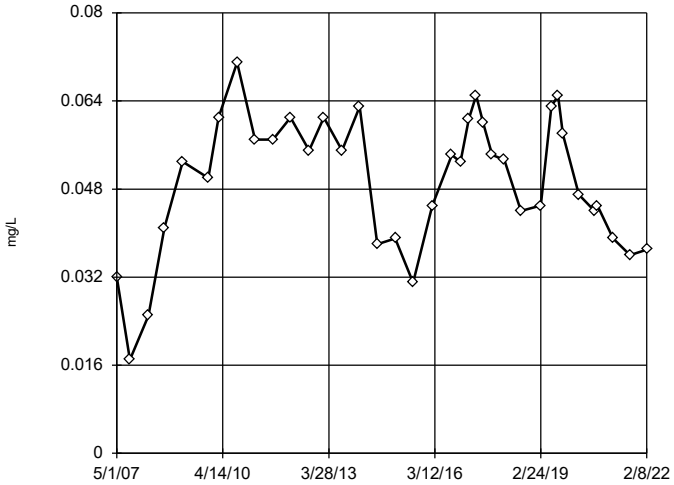
Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.056, low cutoff = -0.021, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.09882, low cutoff = -0.06725, based on IQR multiplier of 3.

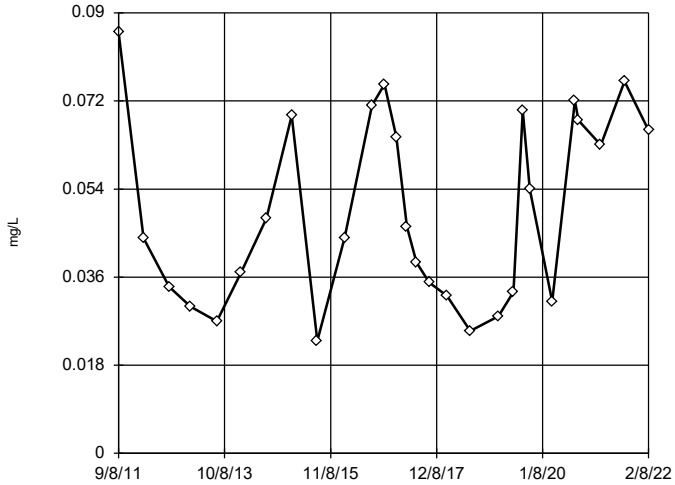
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.6356, low cutoff = 0.003513, based on IQR multiplier of 3.

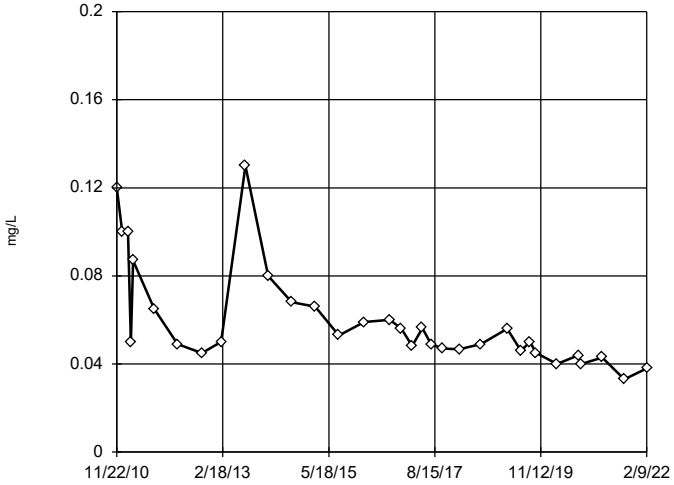
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1954, low cutoff = 0.01525, based on IQR multiplier of 3.

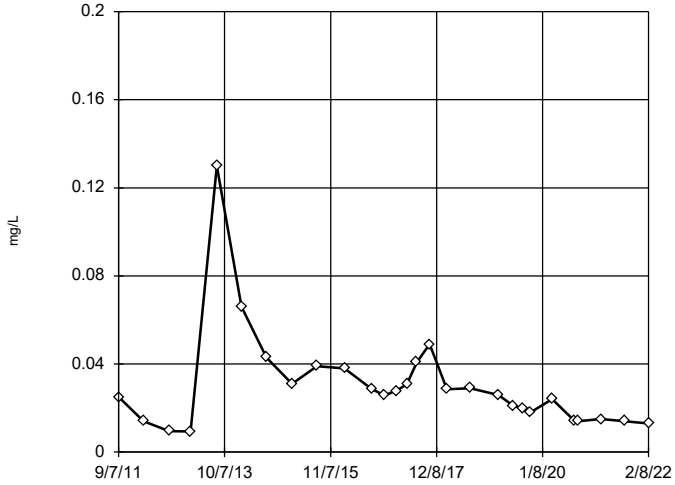
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

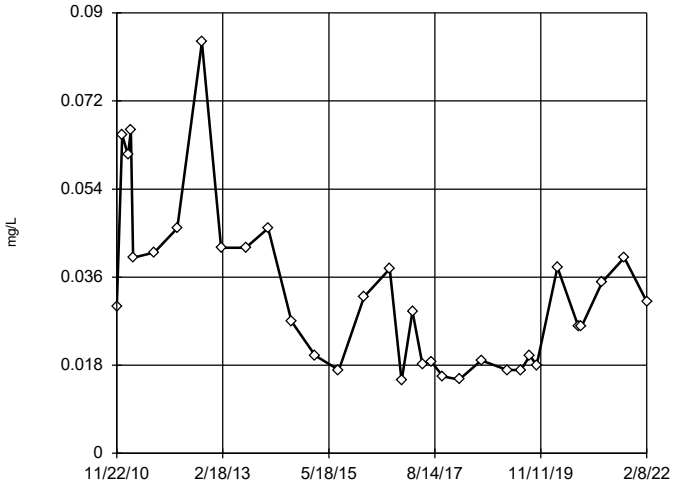
High cutoff = 0.456, low cutoff = 0.001091, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4723, low cutoff = 0.001621, based on IQR multiplier of 3.

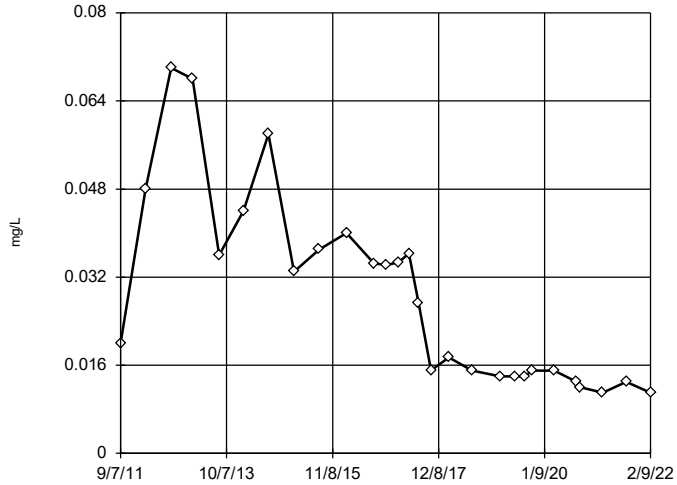
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.6574, low cutoff = 0.0007805, based on IQR multiplier of 3.

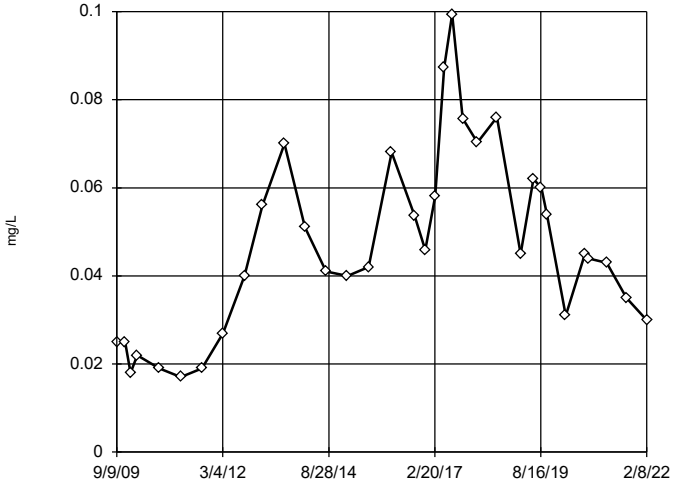
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2319, low cutoff = -0.00434, based on IQR multiplier of 3.

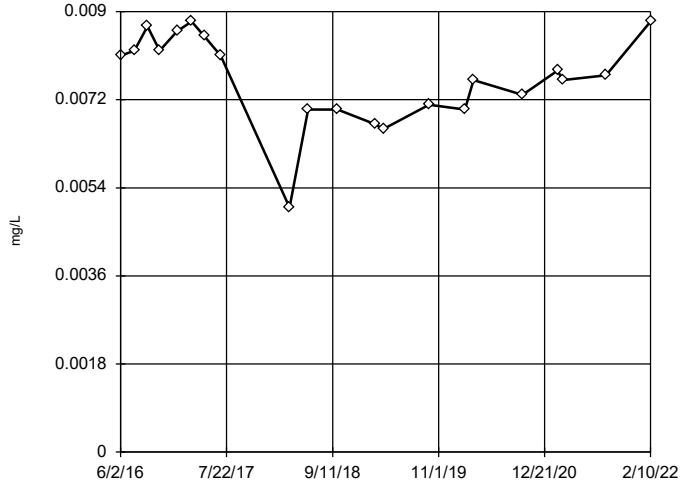
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

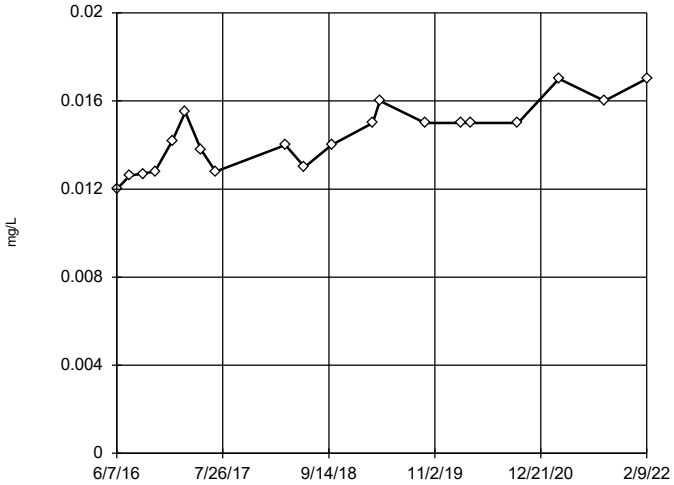
High cutoff = 0.01053, low cutoff = -0.008412, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

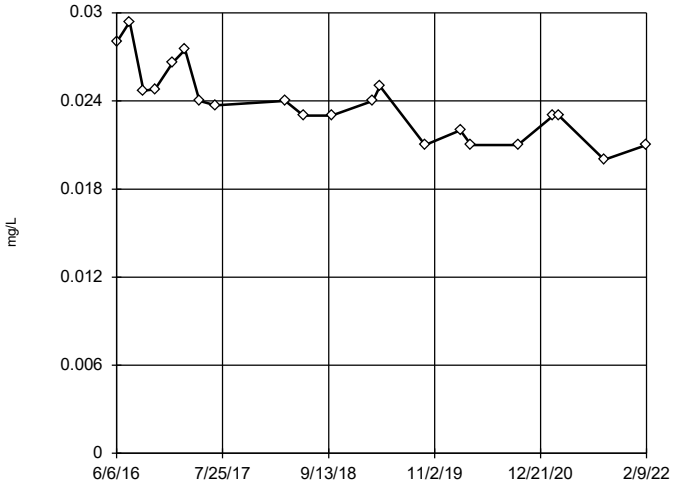
High cutoff = 0.02397, low cutoff = 0.007322, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

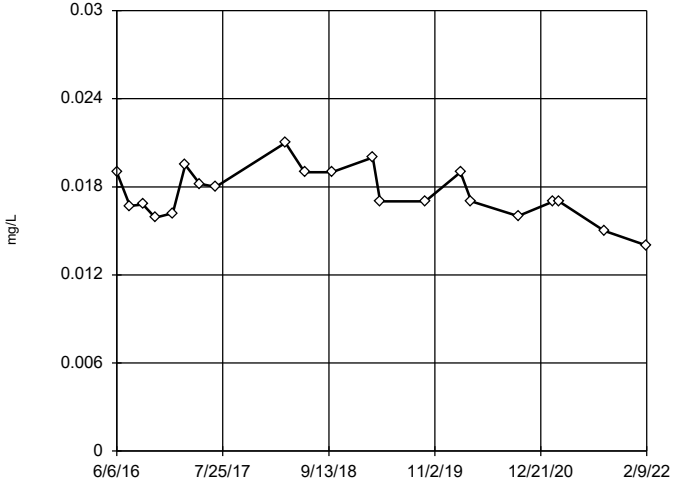
High cutoff = 0.03871, low cutoff = 0.01383, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

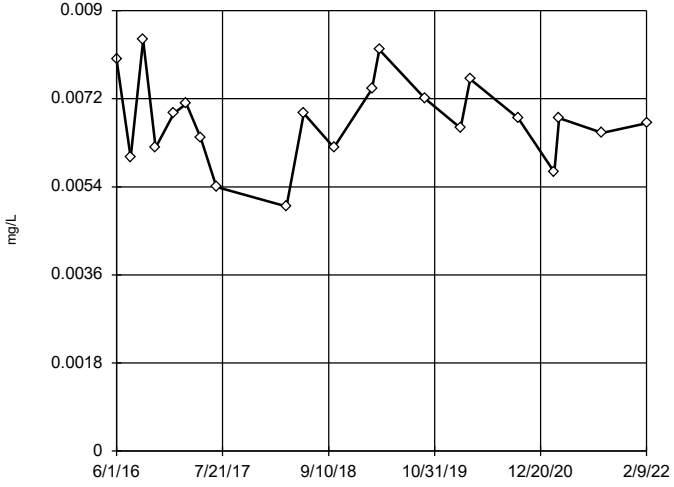
High cutoff = 0.02665, low cutoff = 0.0088, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 21

No outliers found. Tukey's method selected by user.

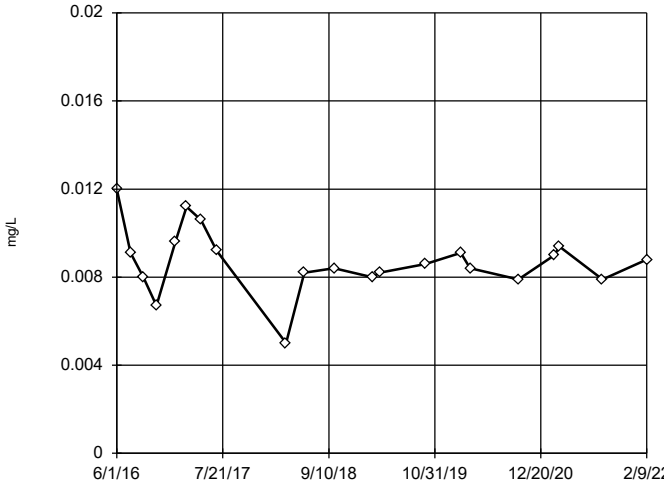
Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.0106, low cutoff = 0.0029, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

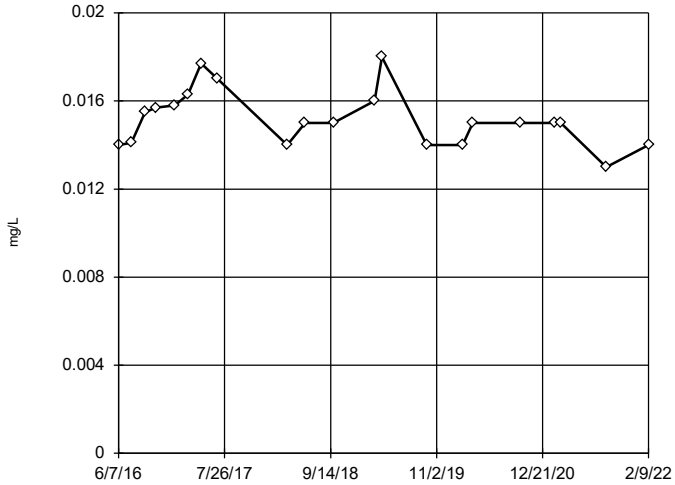
High cutoff = 0.0132, low cutoff = 0.0041, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

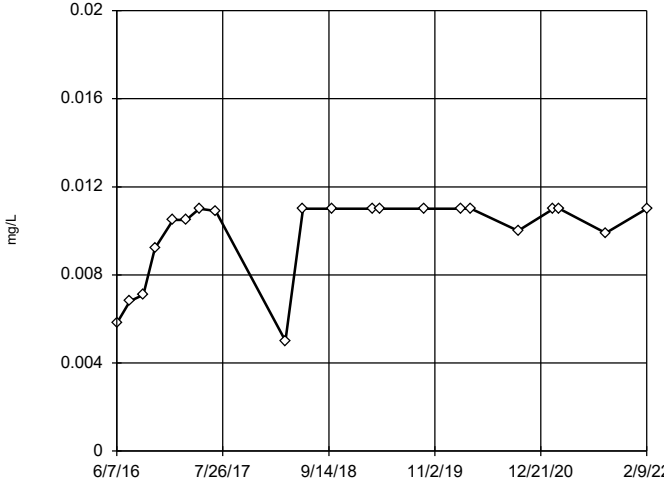
High cutoff = 0.02329, low cutoff = 0.009558, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

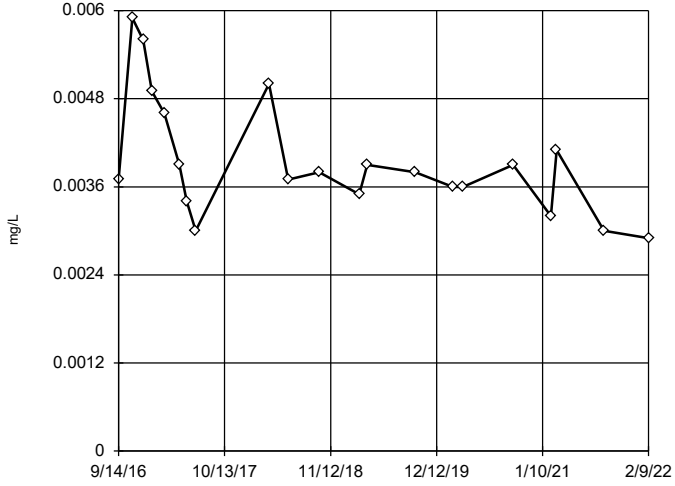
High cutoff = 0.01297, low cutoff = -0.01142, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 21

No outliers found. Tukey's method selected by user.

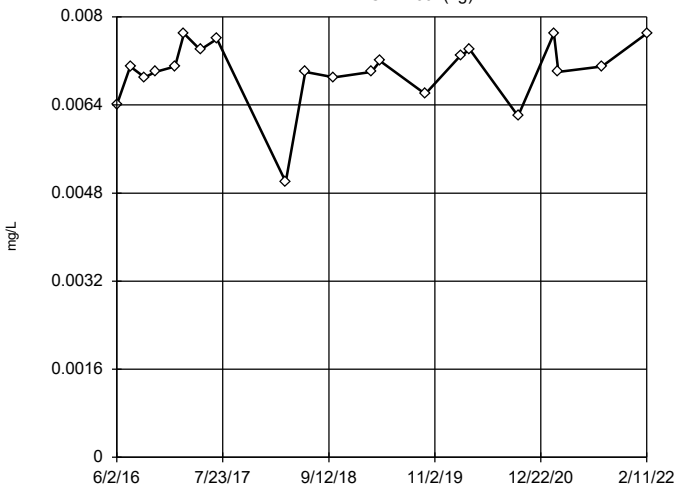
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.008665, low cutoff = 0.001729, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-30I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

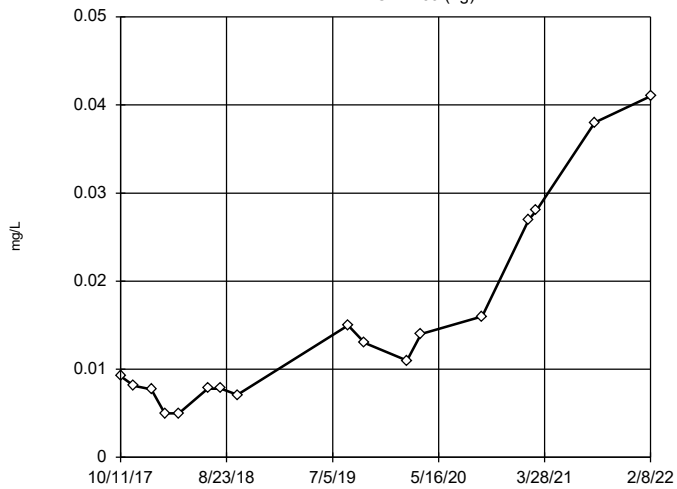
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4009, low cutoff = 0.0004017, based on IQR multiplier of 3.

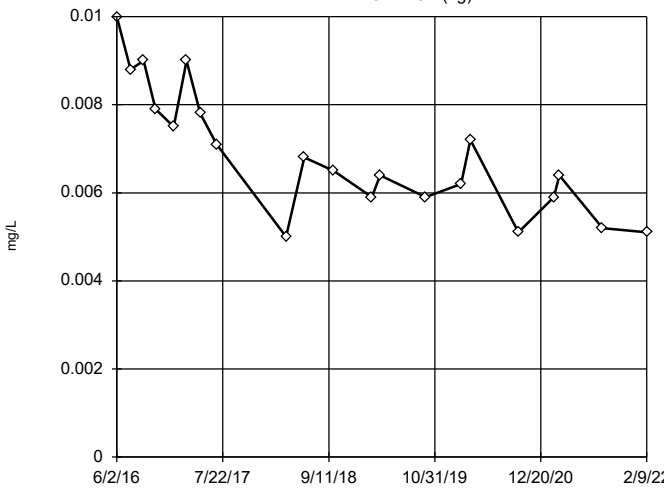
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01849, low cutoff = 0.002505, based on IQR multiplier of 3.

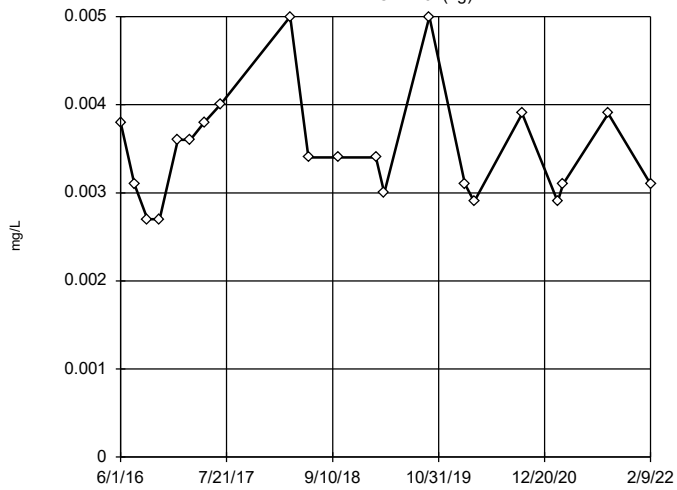
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

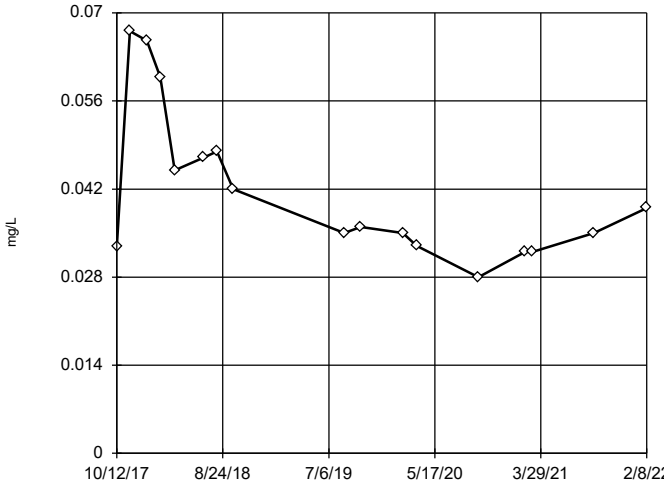
High cutoff = 0.007744, low cutoff = 0.001516, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1429, low cutoff = 0.01093, based on IQR multiplier of 3.

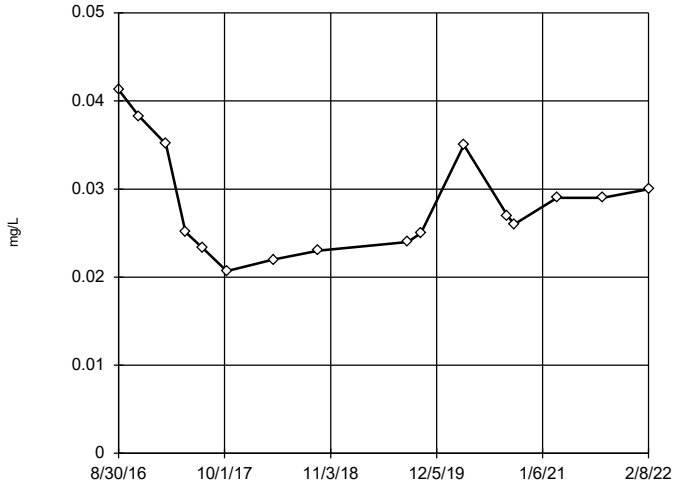
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.08337, low cutoff = 0.009191, based on IQR multiplier of 3.

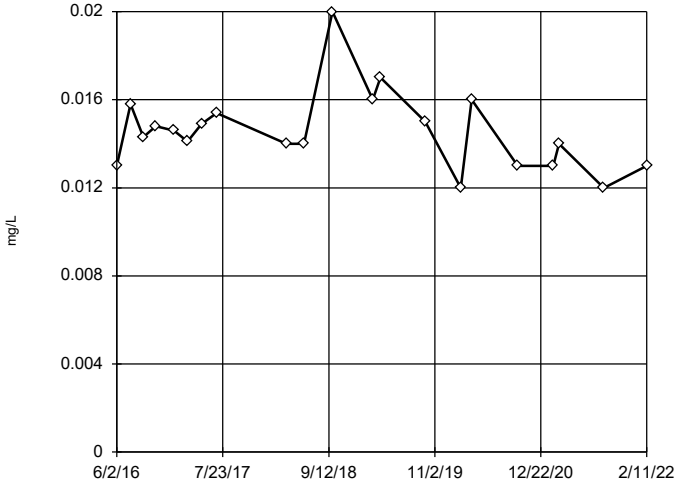
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02695, low cutoff = 0.007525, based on IQR multiplier of 3.

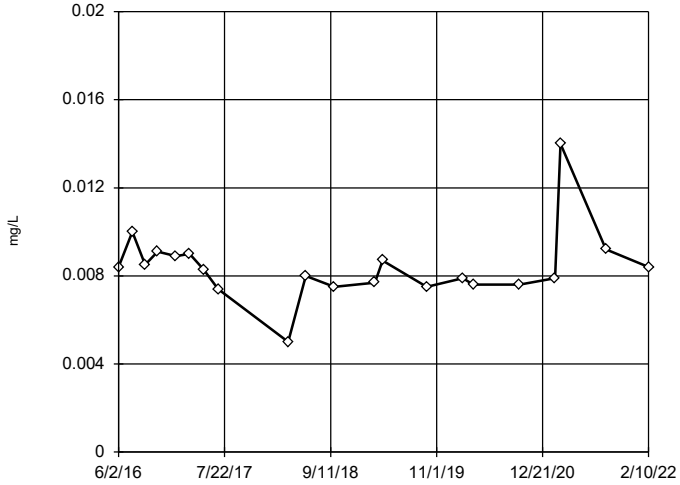
Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

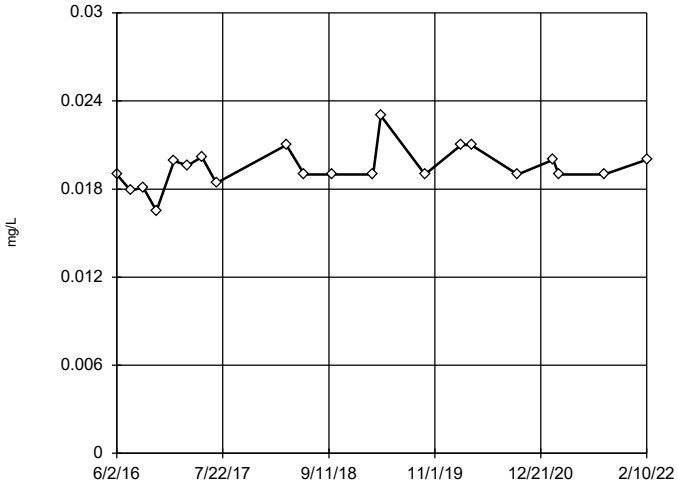
High cutoff = 0.01462, low cutoff = 0.004654, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

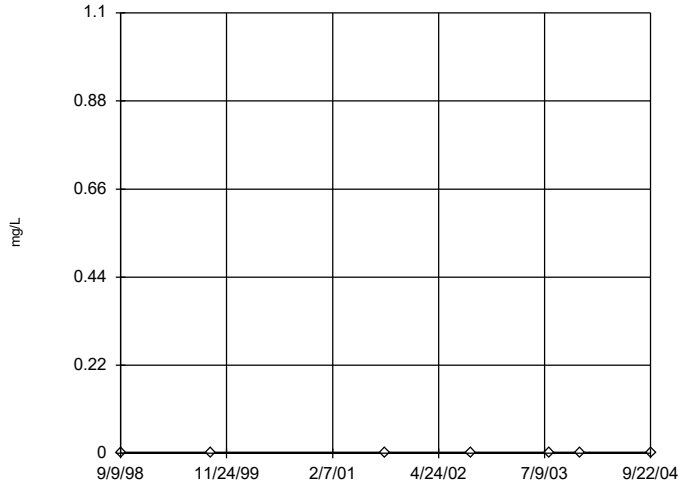
High cutoff = 0.0238, low cutoff = 0.01605, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

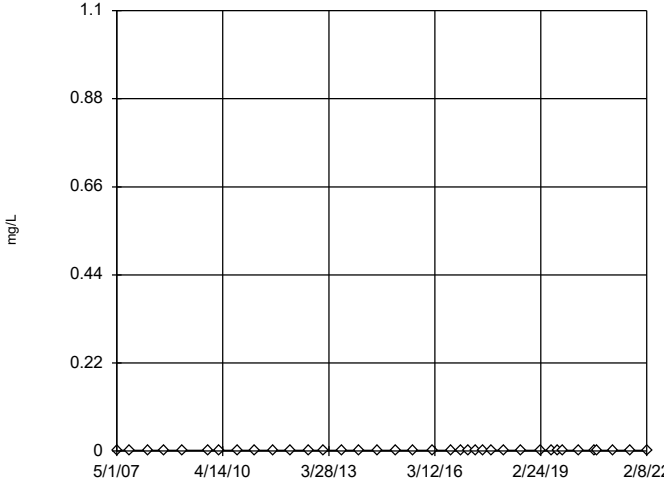
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

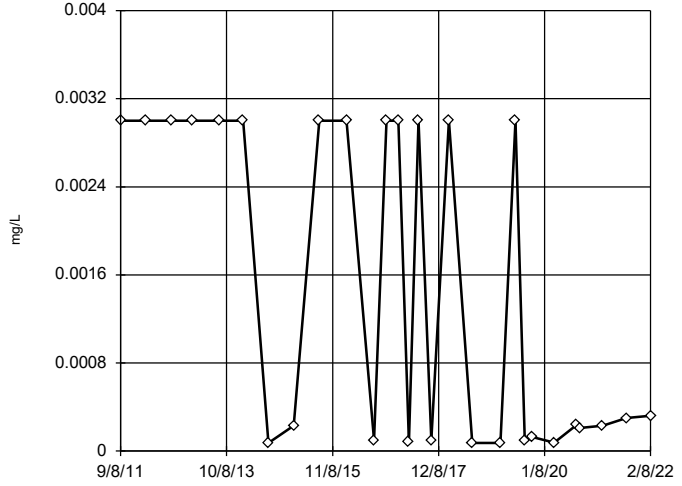
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

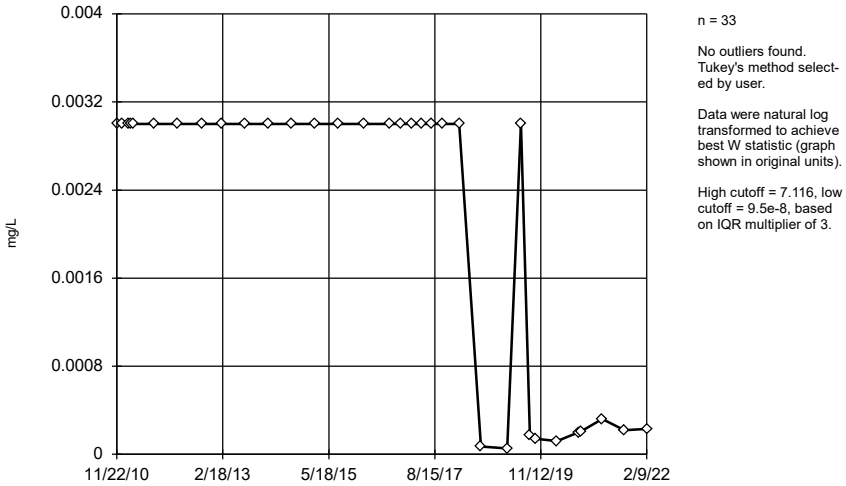
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 81, low cutoff = 3.7e-9, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

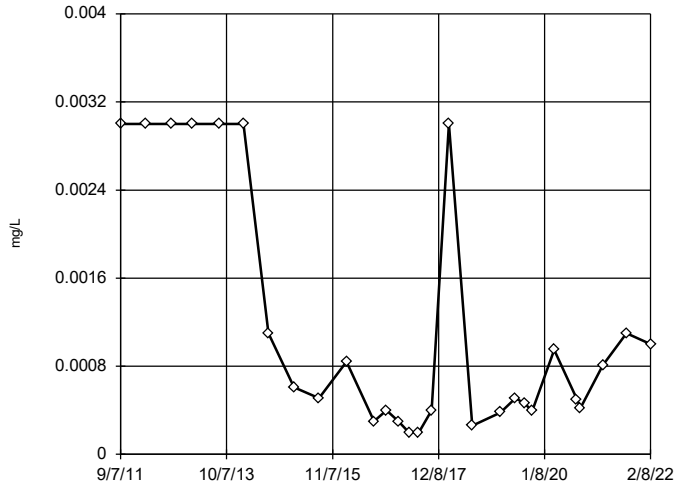
High cutoff = 7.116, low cutoff = 9.5e-8, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

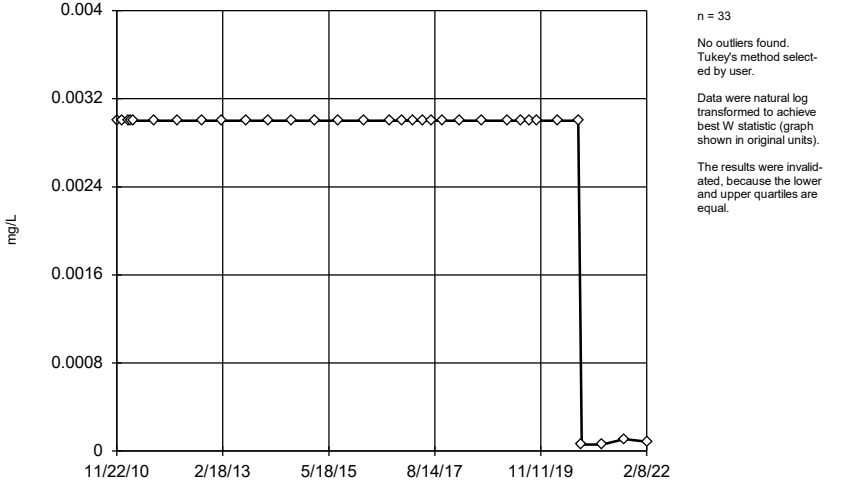
High cutoff = 0.1767, low cutoff = 0.00000406, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

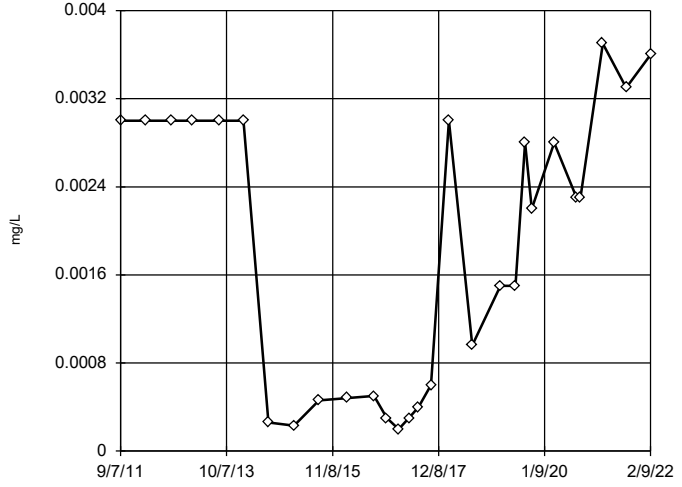
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

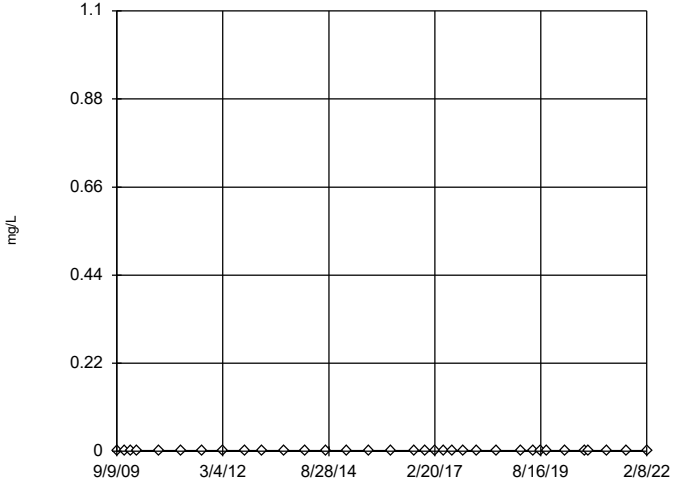
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.005944, low cutoff = -0.00511, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found.
Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

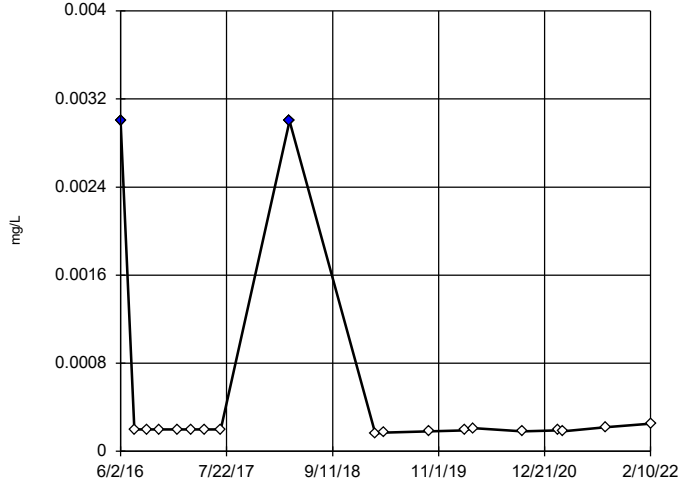
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 19

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

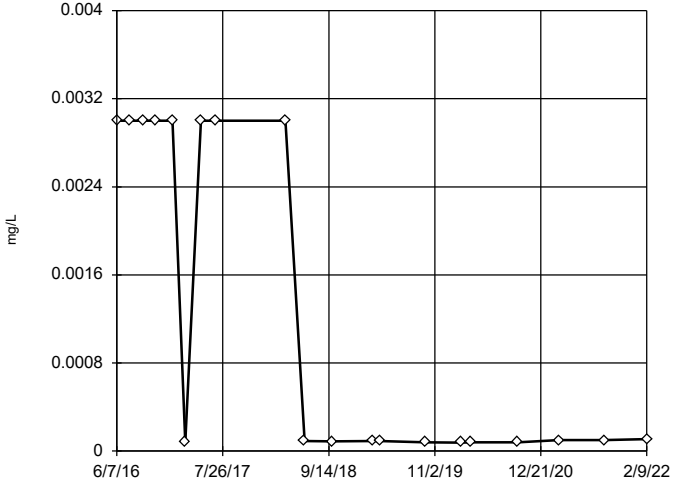
High cutoff = 0.0003335, low cutoff = 0.0001134, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

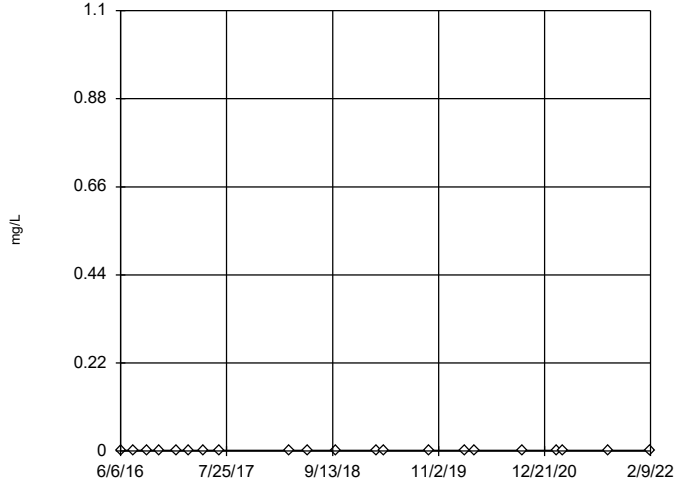
High cutoff = 132.3, low cutoff = 1.9e-9, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found.
Tukey's method selected by user.

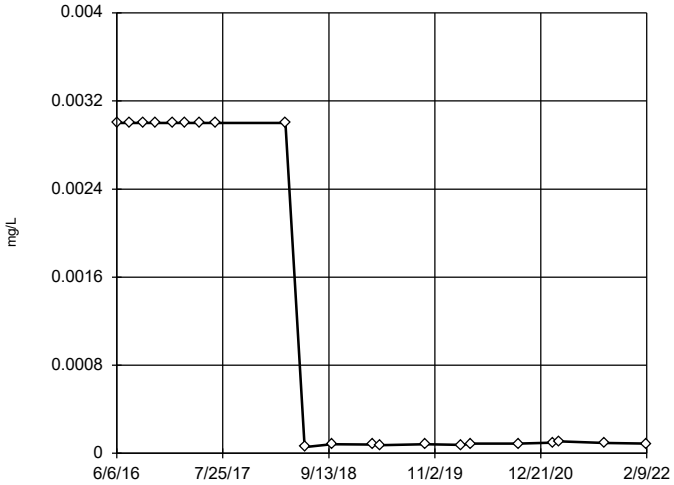
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

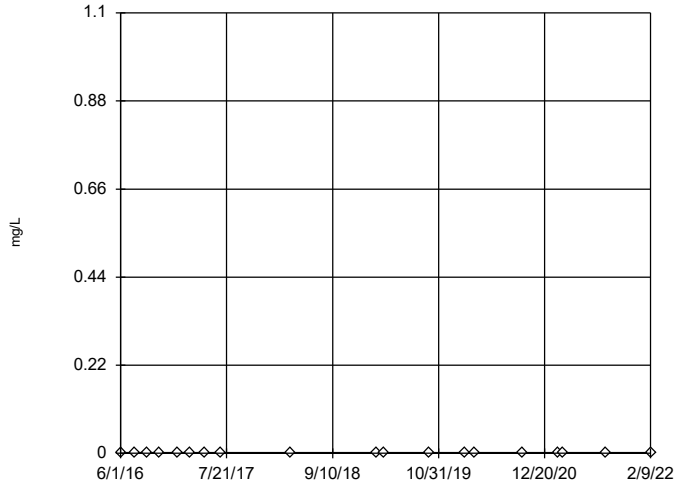
High cutoff = 141.7, low cutoff = 1.8e-9, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

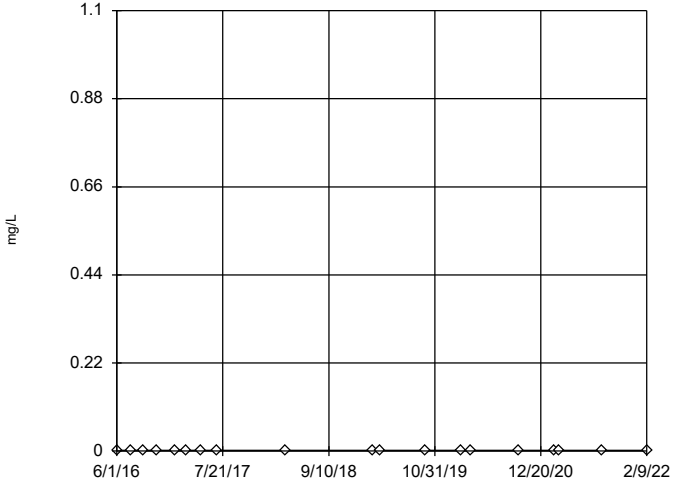
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

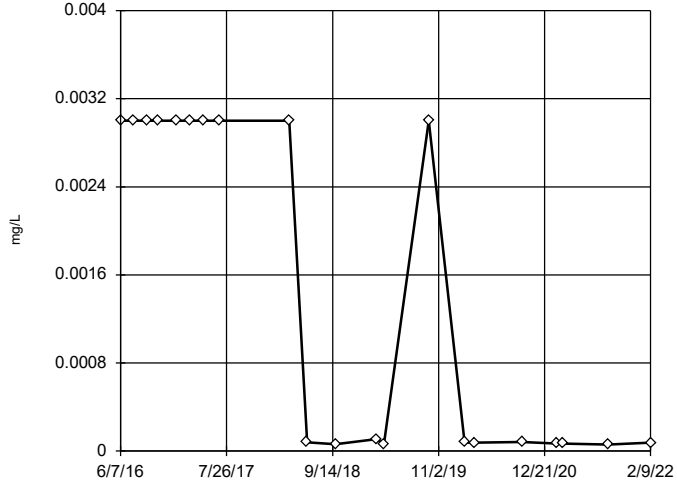
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

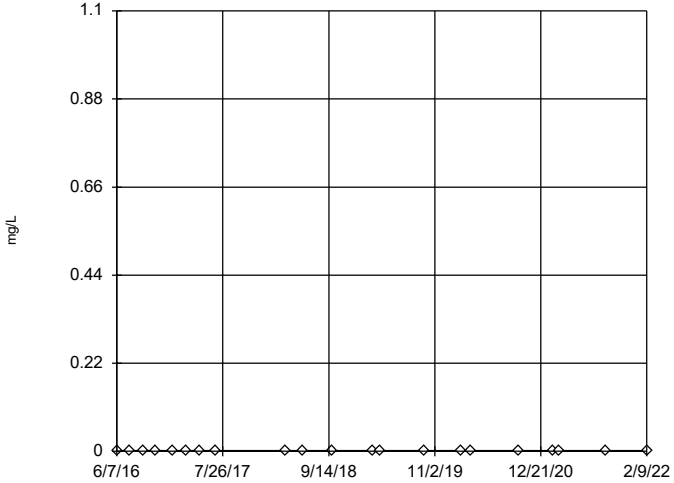
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 218, low cutoff = 9.9e-10, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:38 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

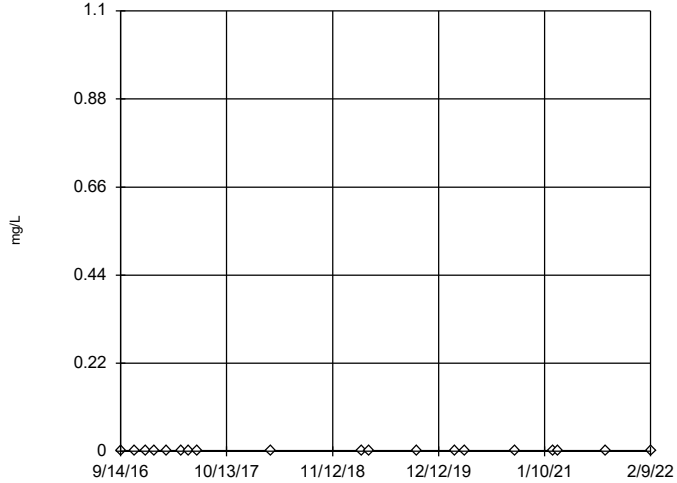
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

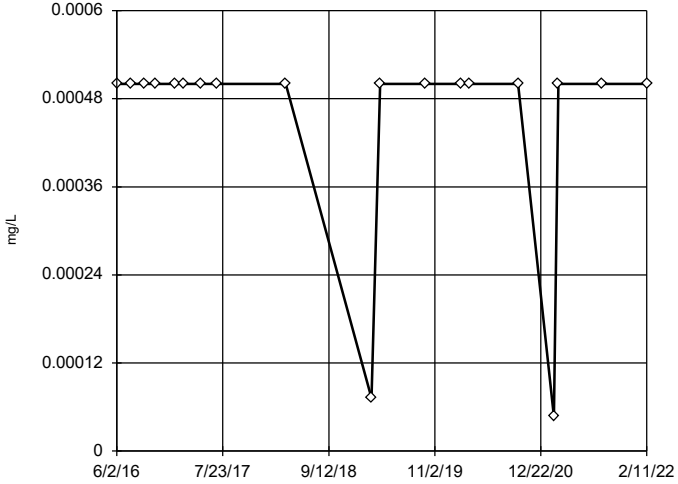
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

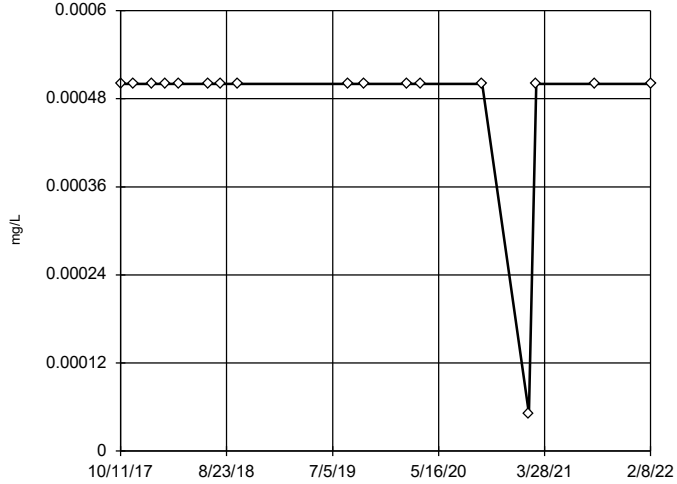
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

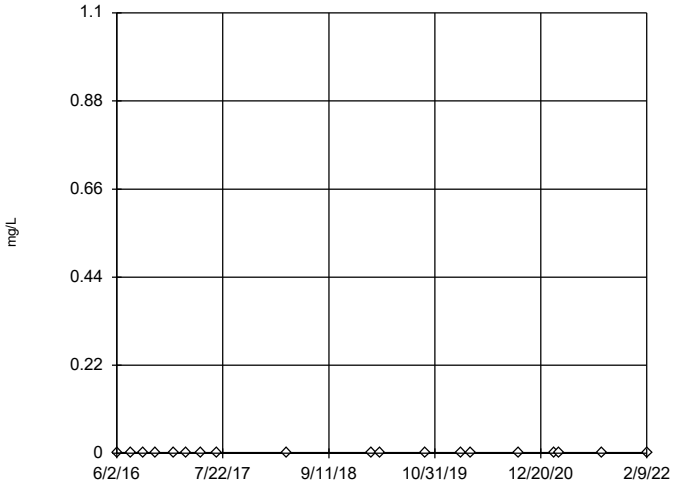
Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3D (bg)



n = 19

No outliers found.
Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

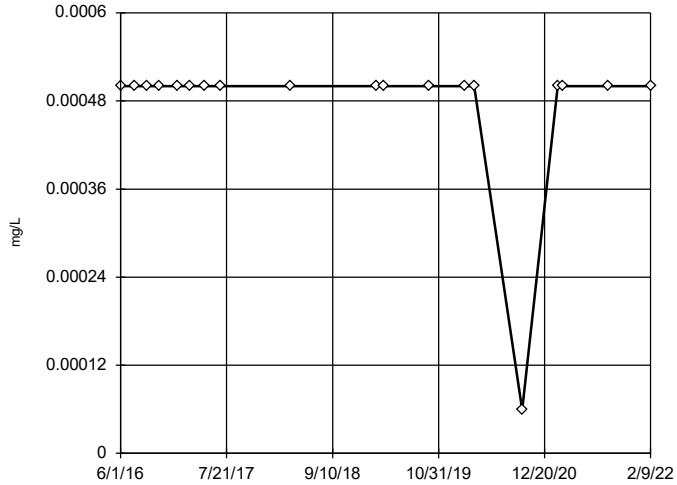
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 19

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

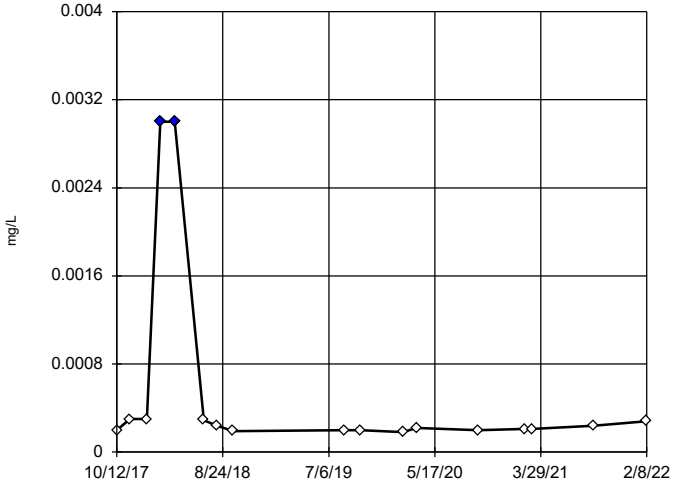
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

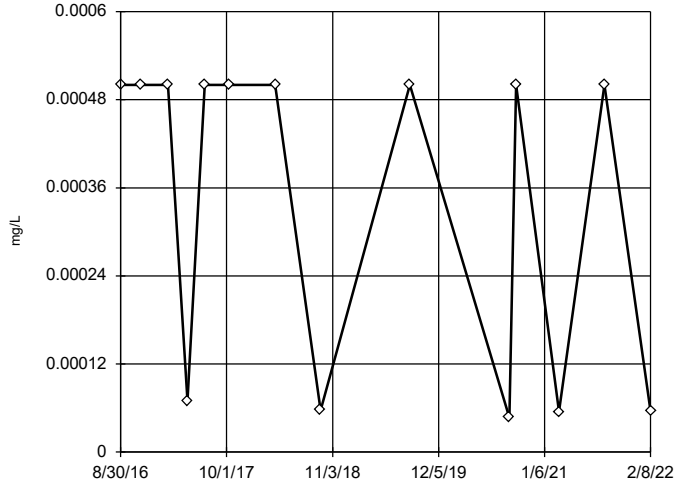
High cutoff = 0.0009461, low cutoff = 0.00006235, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found.
Tukey's method selected by user.

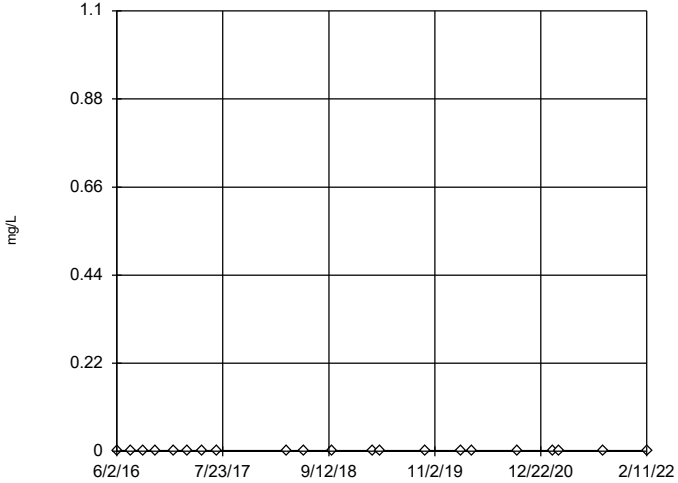
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.3466, low cutoff = 8.2e-8, based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

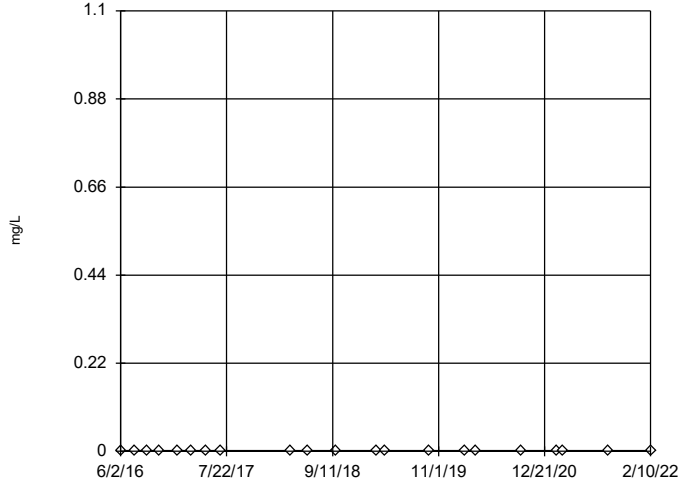
Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

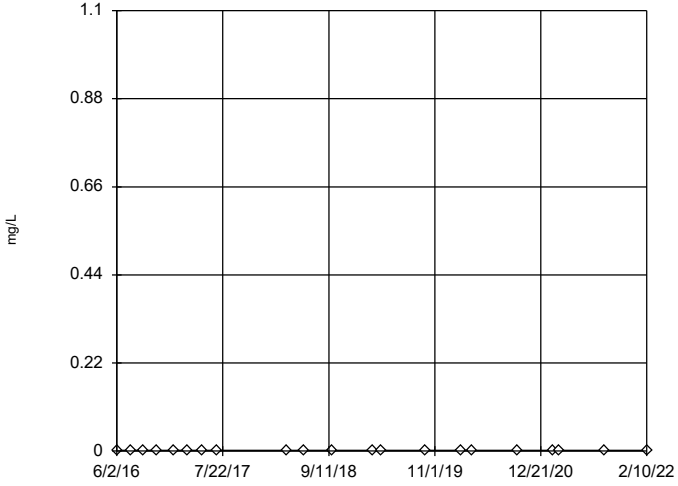
Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

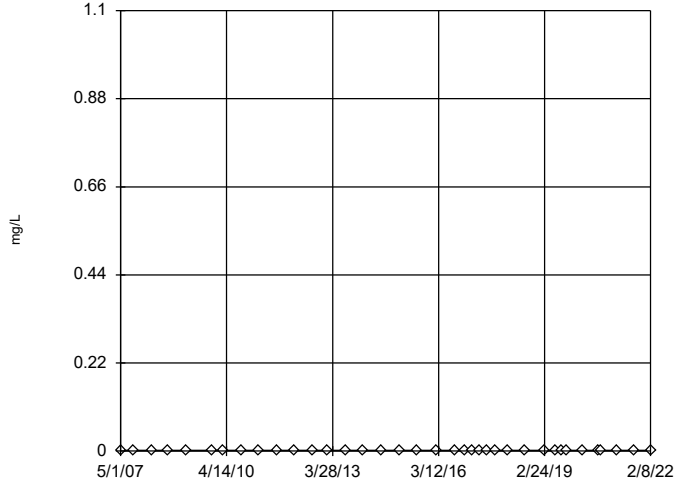
Constituent: Beryllium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

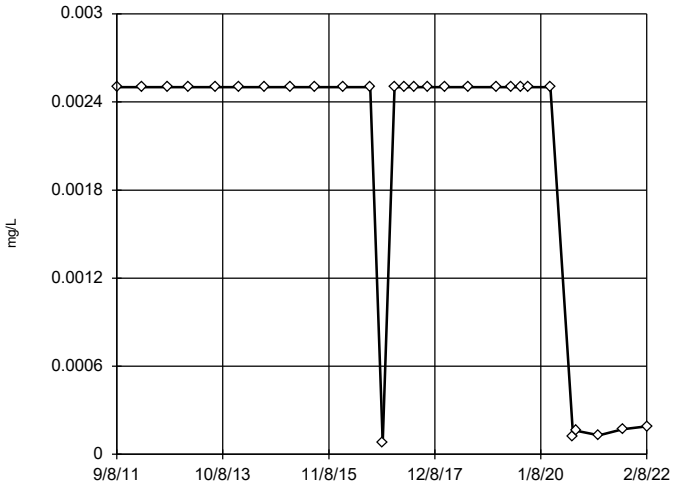
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

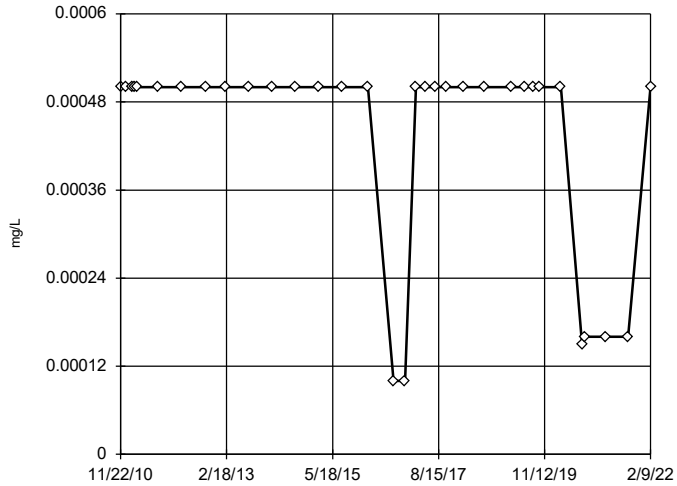
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

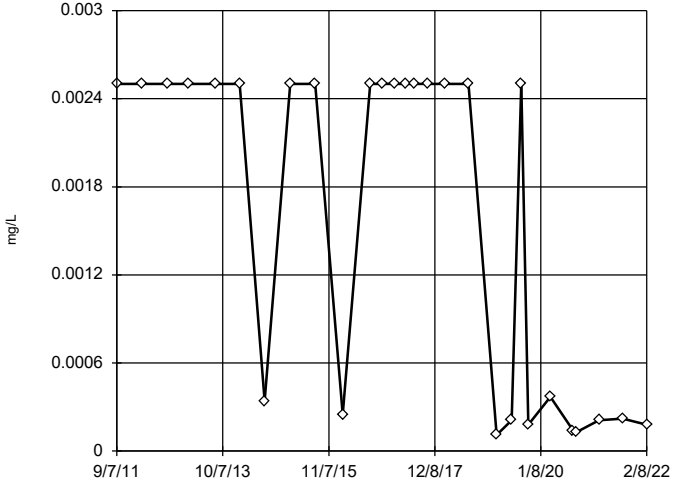
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.934, low cutoff = 1.4e-7, based on IQR multiplier of 3.

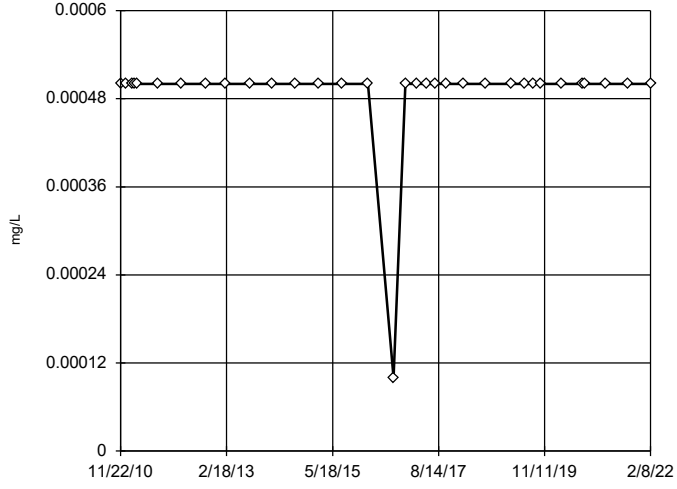
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

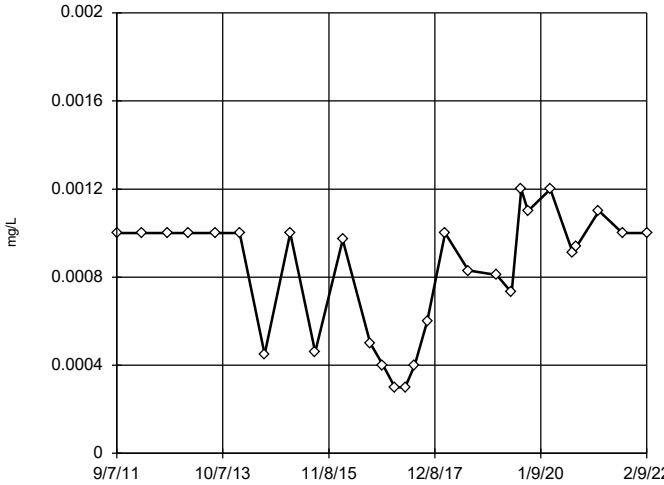
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.001517, low cutoff = -0.001323, based on IQR multiplier of 3.

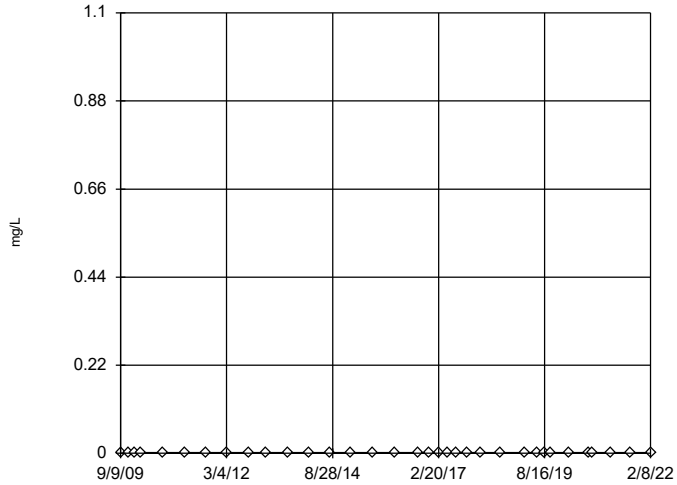
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

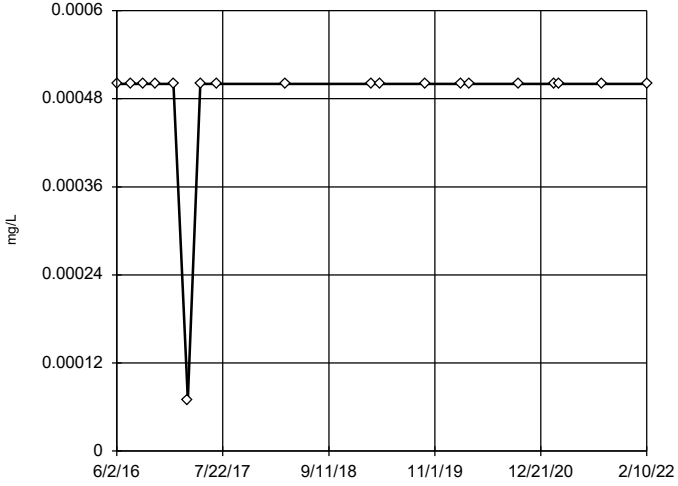
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

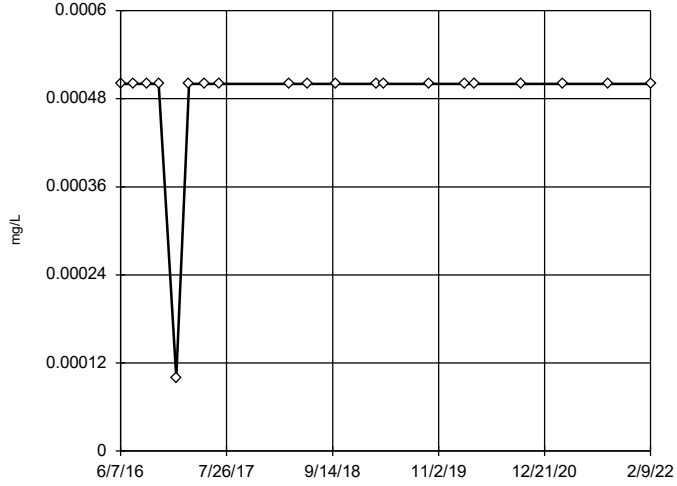
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

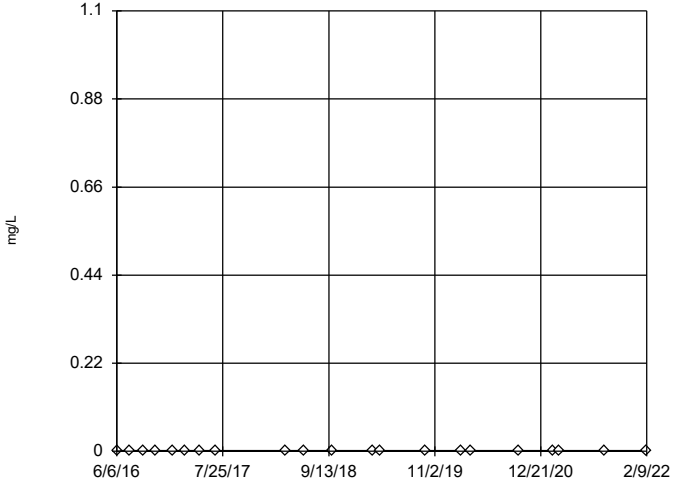
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

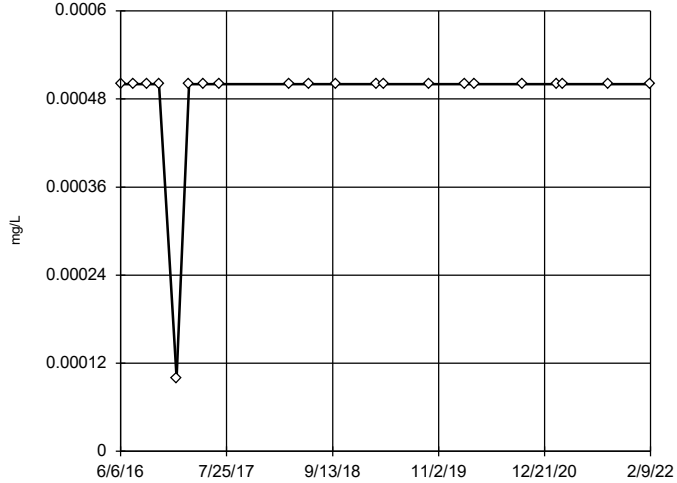
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

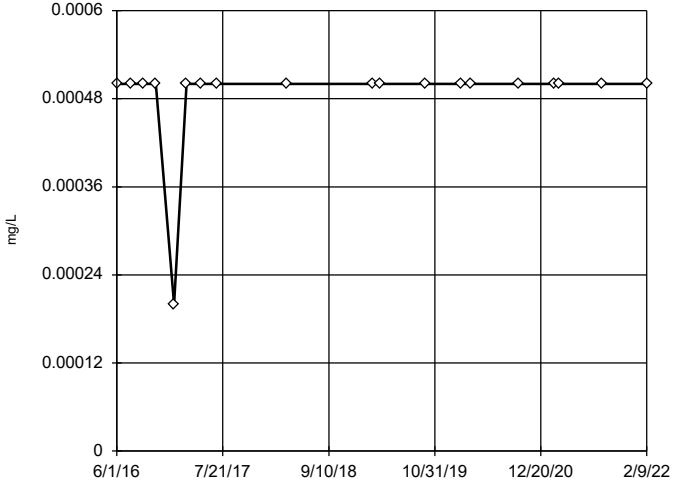
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

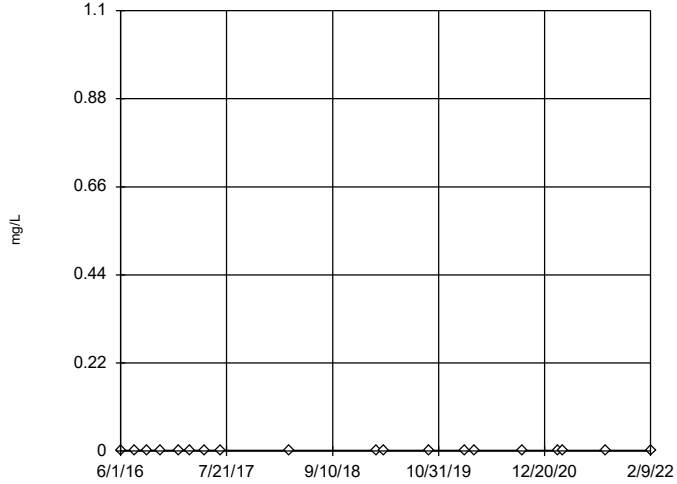
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 19

No outliers found. Tukey's method selected by user.

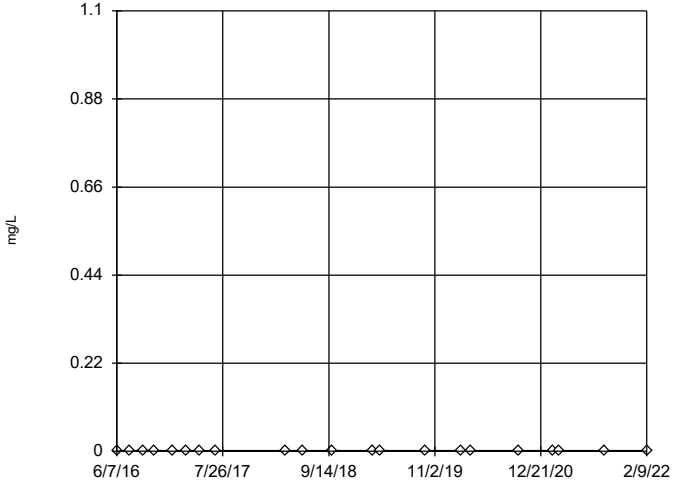
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

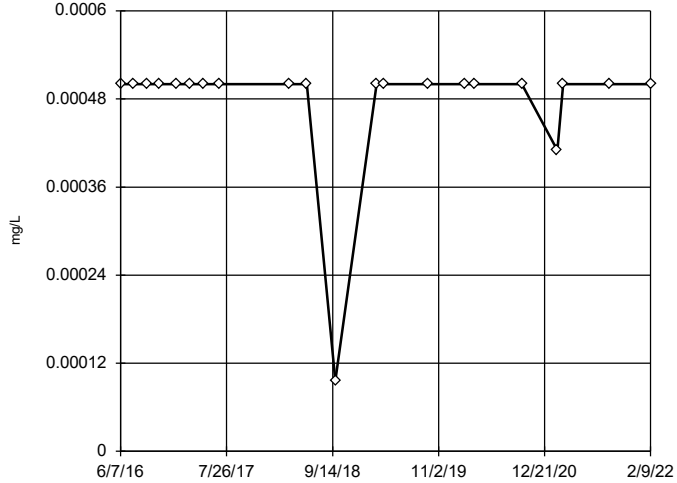
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

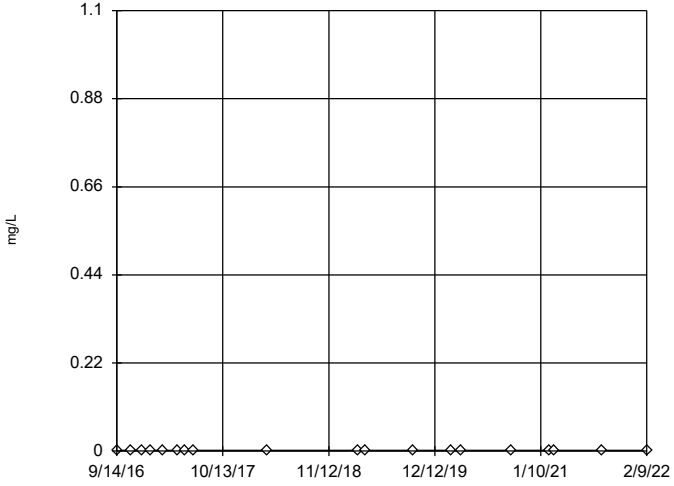
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

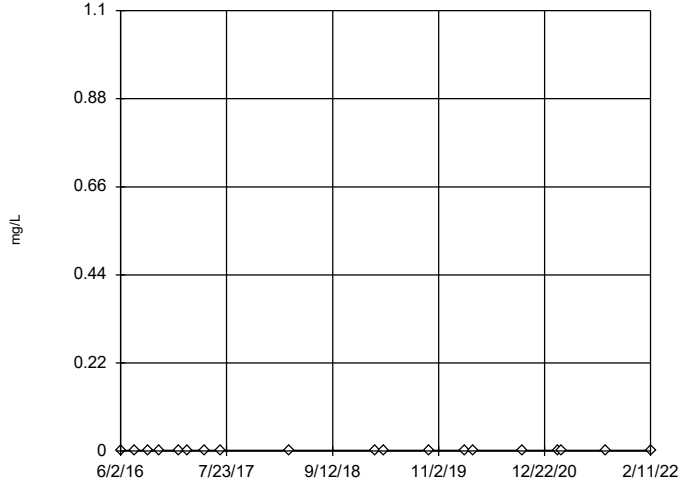
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 19

No outliers found. Tukey's method selected by user.

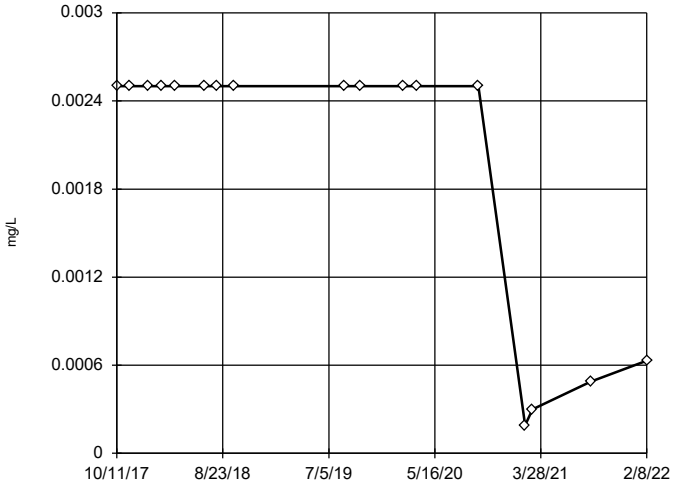
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01976, low cutoff = 0.0001588, based on IQR multiplier of 3.

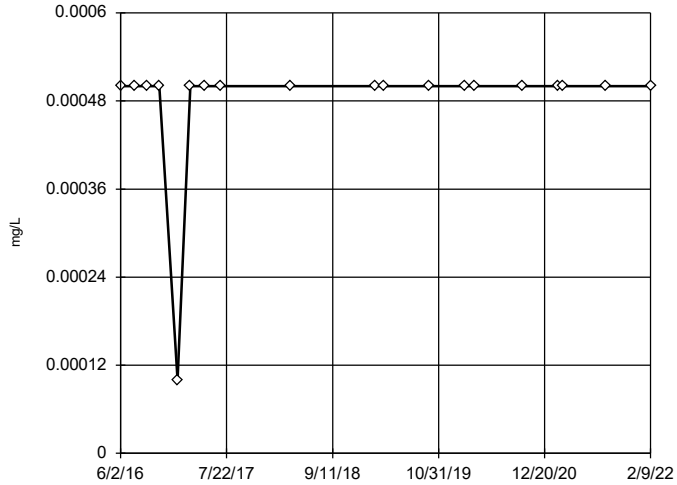
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

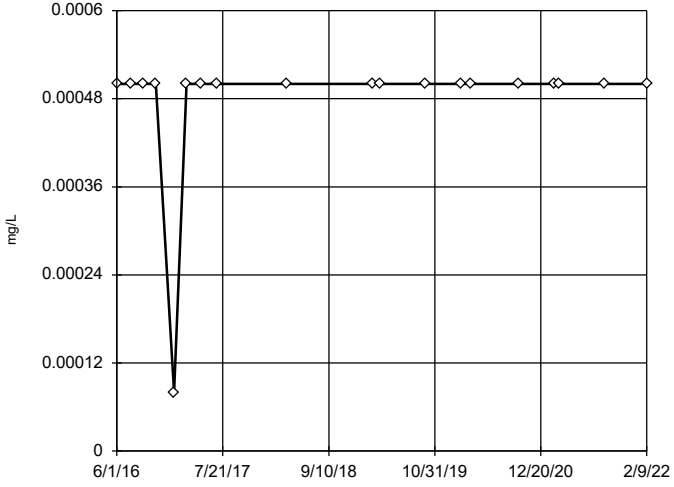
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

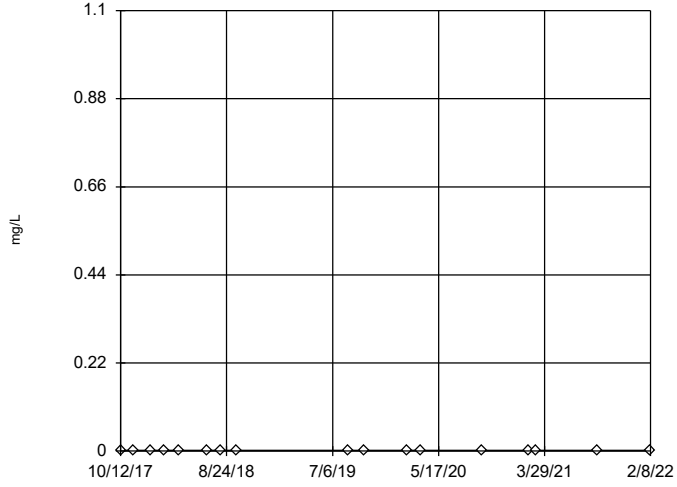
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

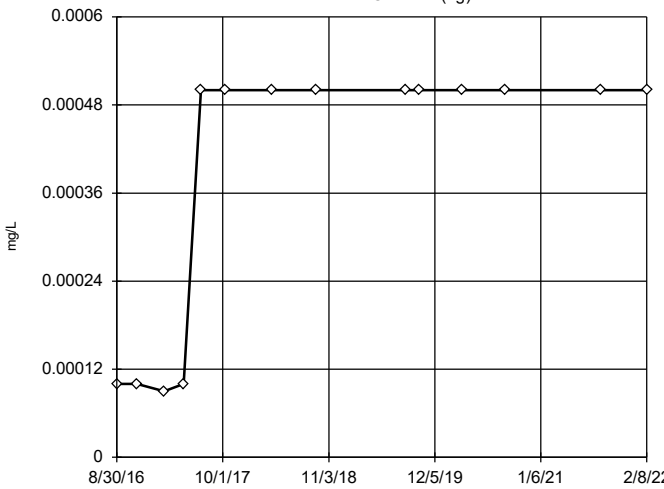
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.0625, low cutoff = 8.0e-7, based on IQR multiplier of 3.

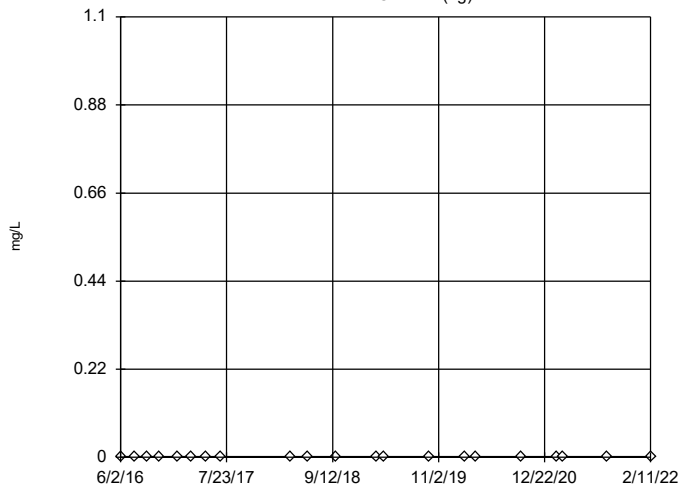
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

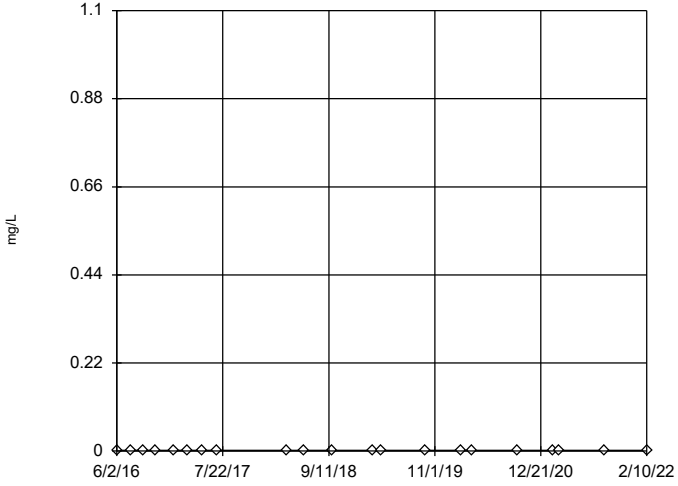
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

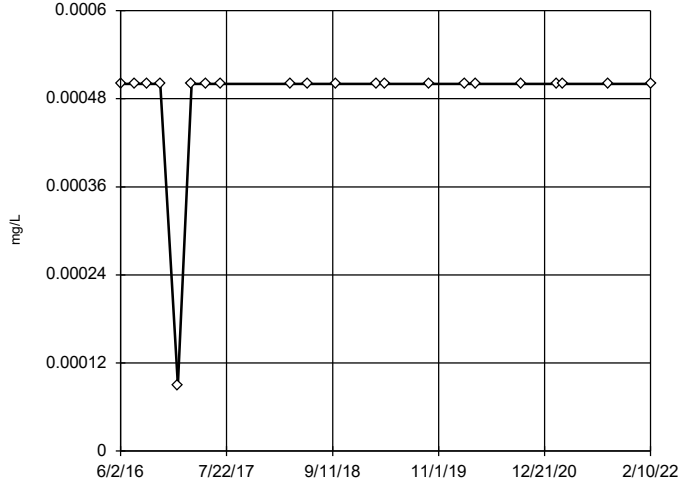
Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

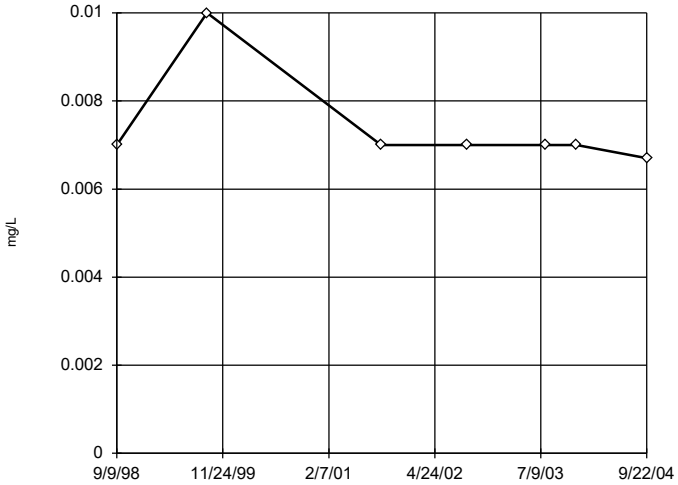
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

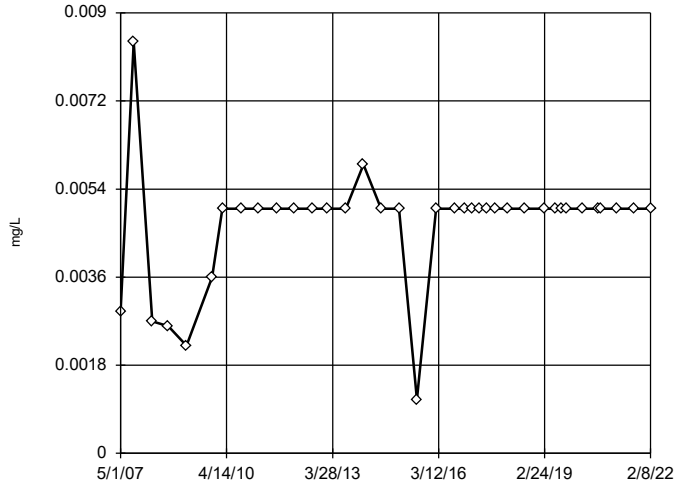
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

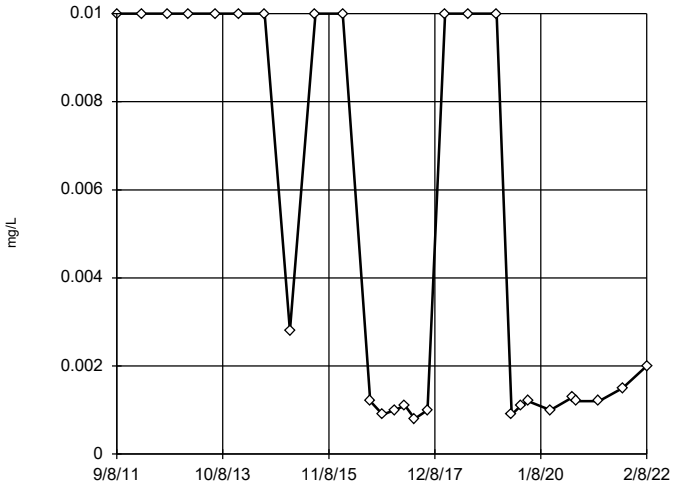
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

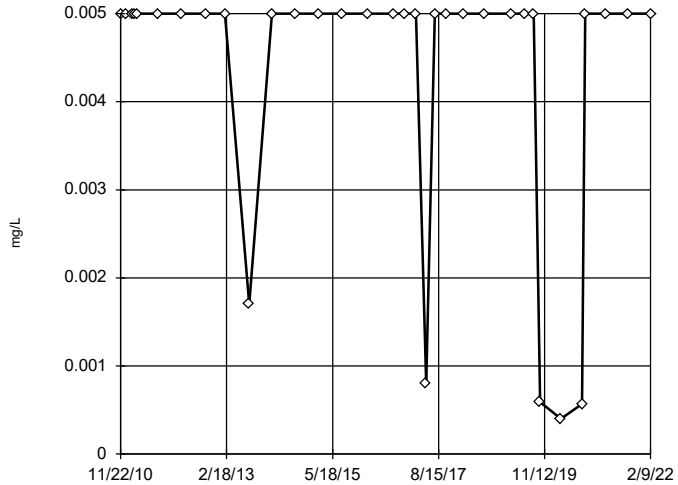
High cutoff = 7.513, low cutoff = 0.000001464, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

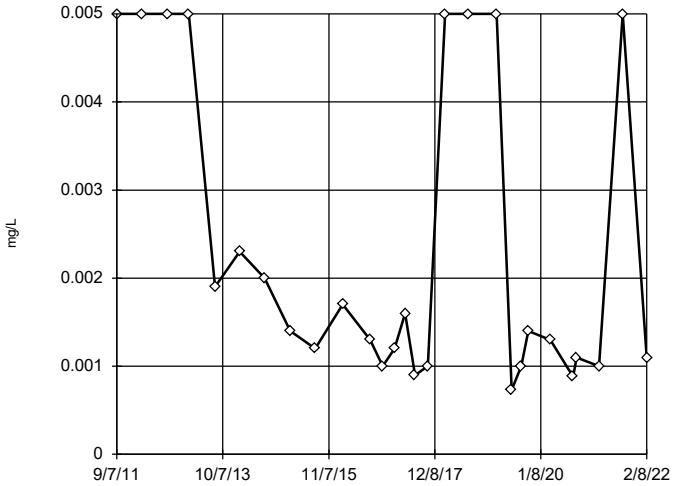
Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

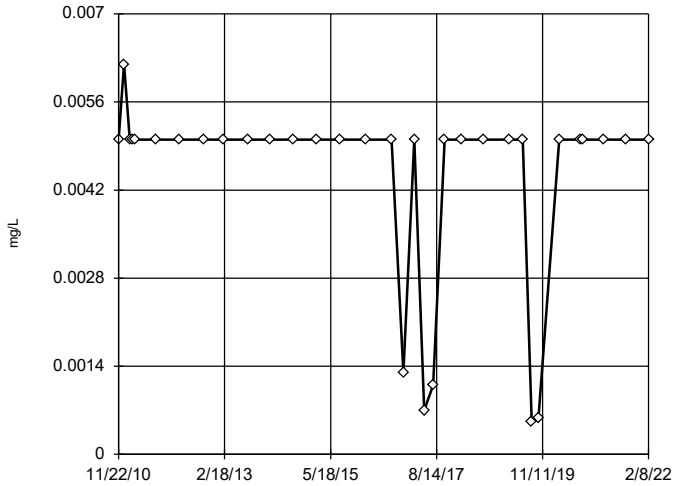
High cutoff = 0.5417, low cutoff = 0.00000968, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found.
Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

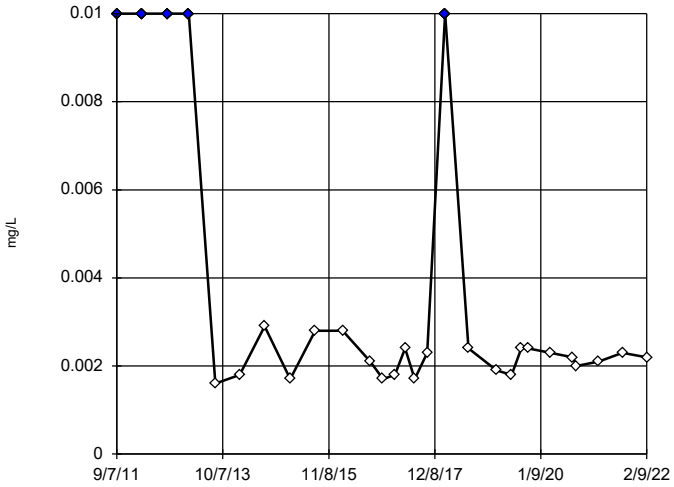
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

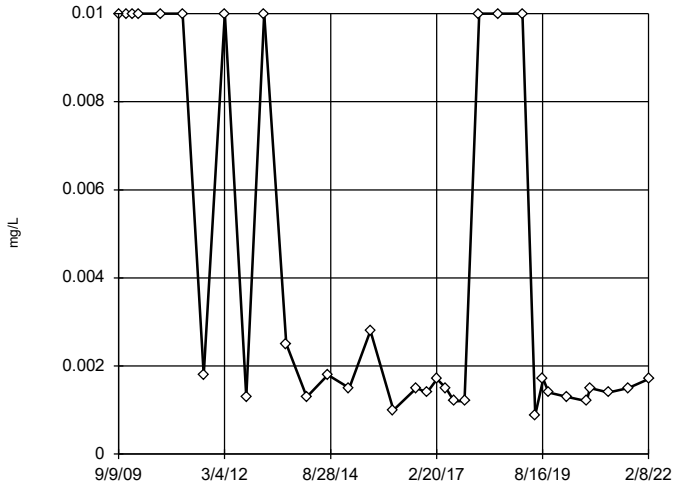
High cutoff = 0.009718, low cutoff = 0.0005328, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found.
Tukey's method selected by user.

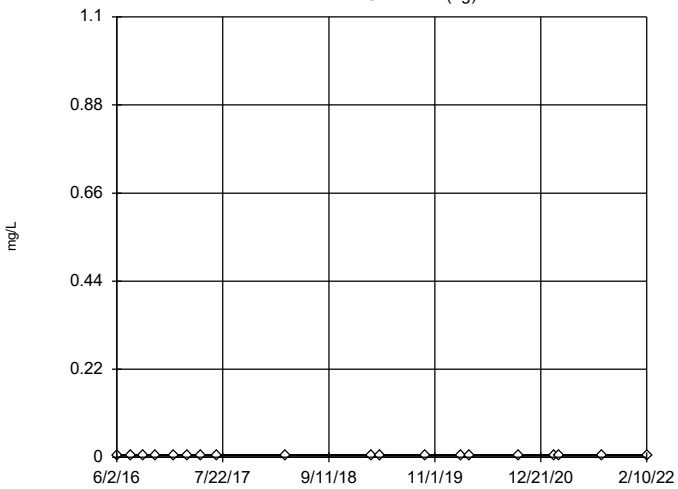
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 4.073, low cutoff = 0.000003312, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-14S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

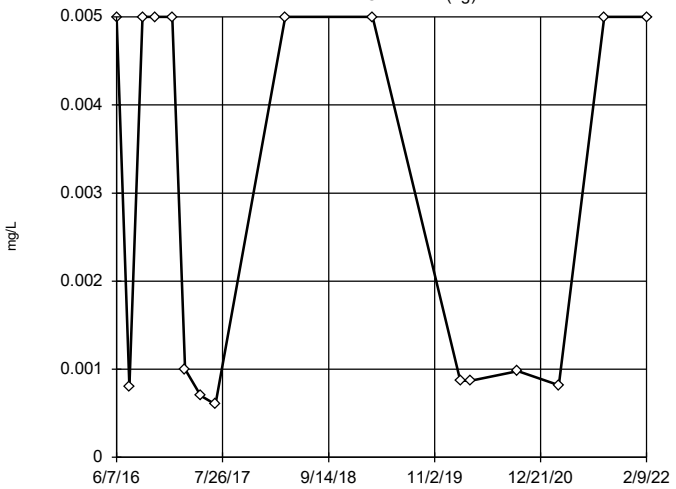
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

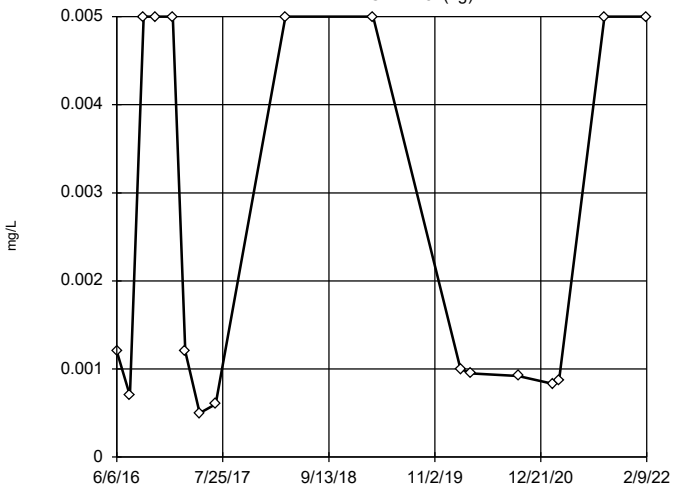
High cutoff = 1.037, low cutoff = 0.000004072, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

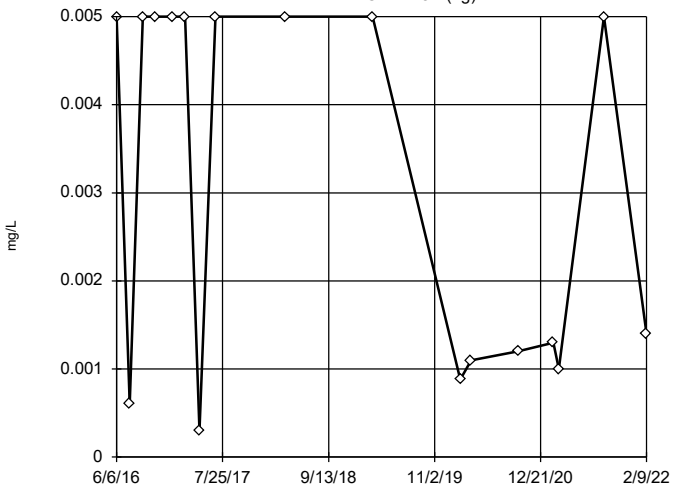
High cutoff = 1.019, low cutoff = 0.000004171, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 17

No outliers found. Tukey's method selected by user.

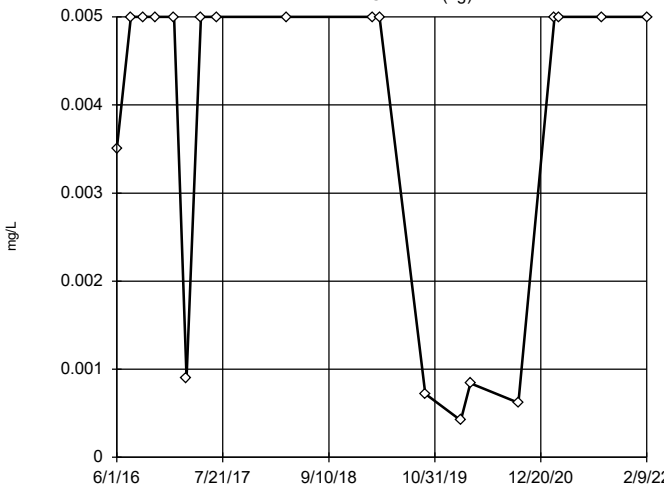
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.5417, low cutoff = 0.00000968, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

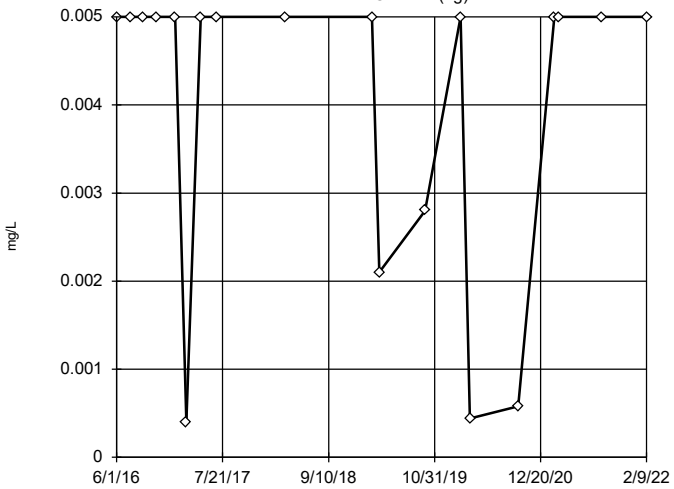
High cutoff = 0.8573, low cutoff = 0.000005249, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

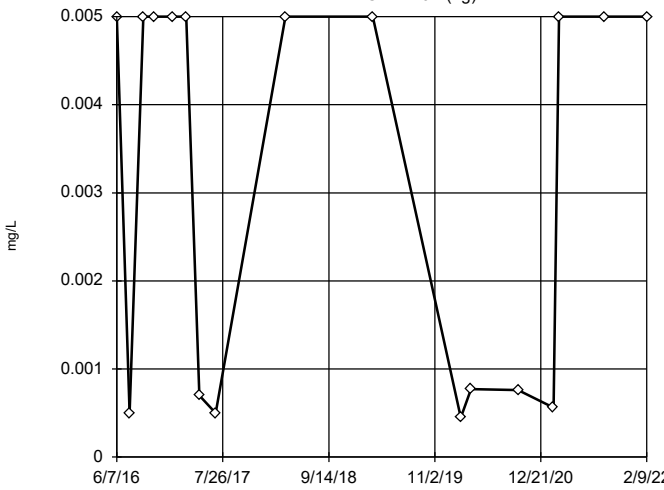
High cutoff = 0.0116, low cutoff = -0.0038, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

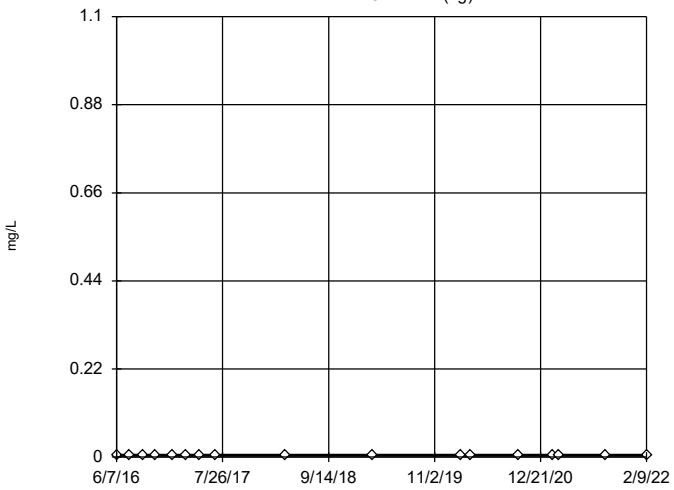
High cutoff = 2.547, low cutoff = 0.000001229, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 17

No outliers found. Tukey's method selected by user.

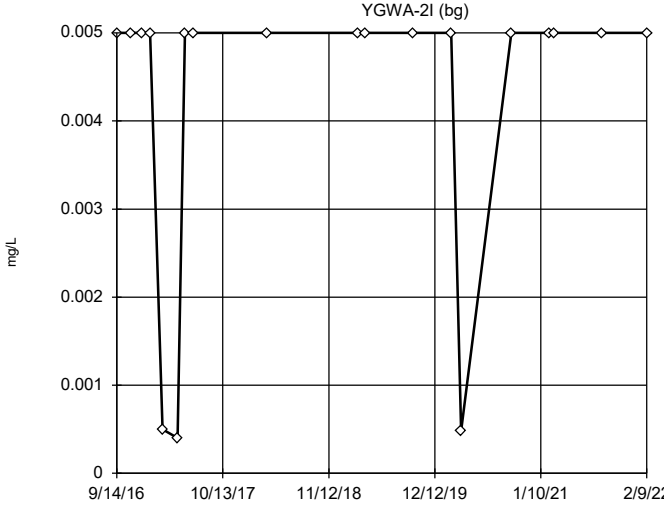
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-2I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

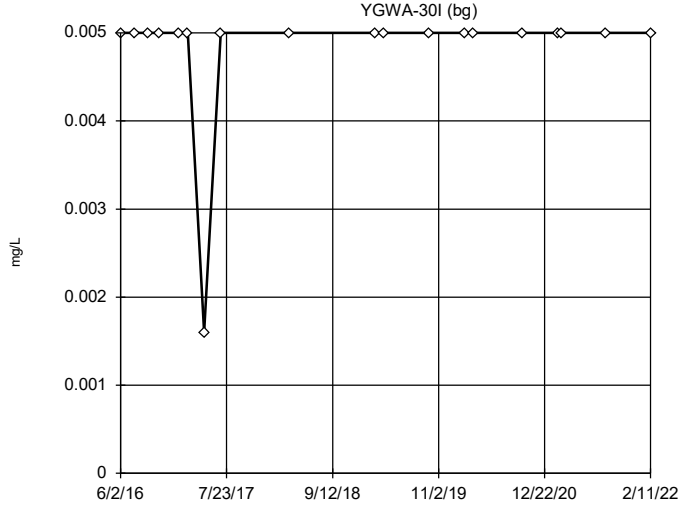
Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

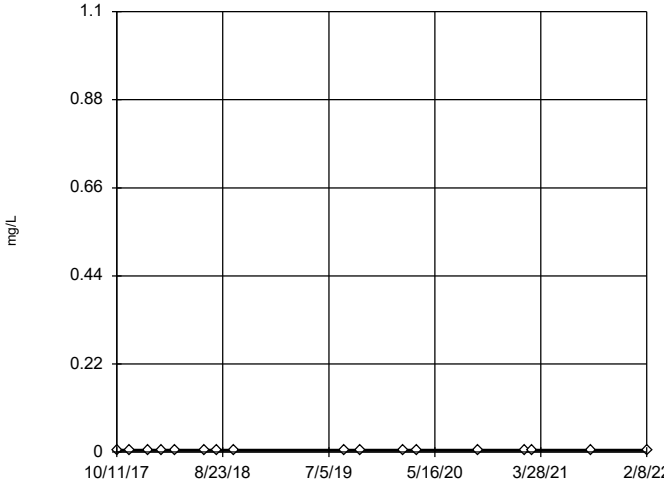
Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

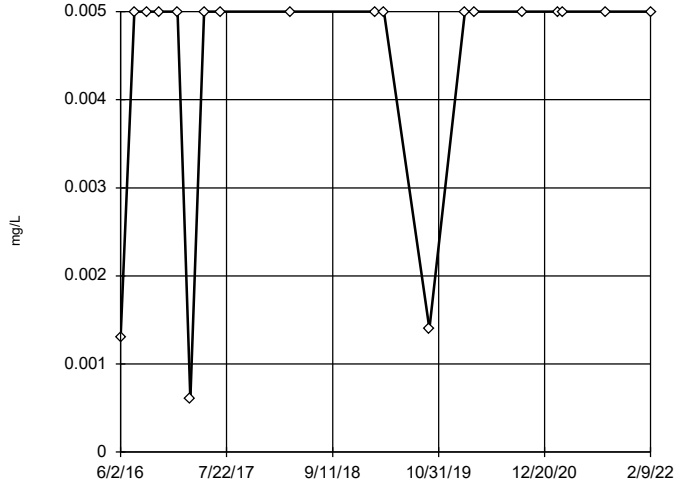
Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

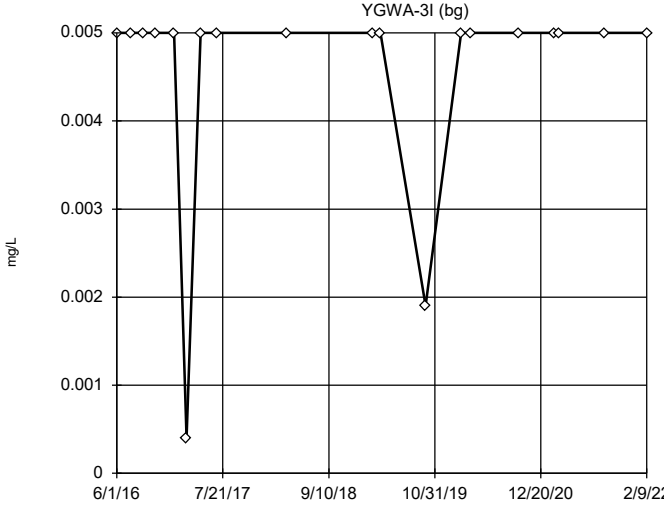
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

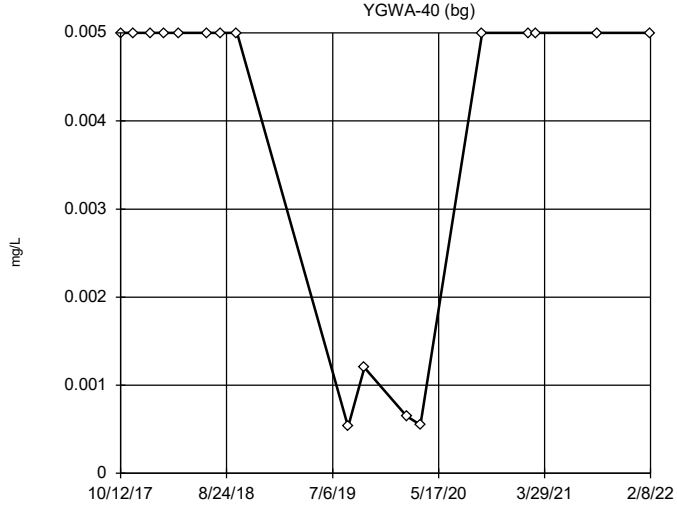
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

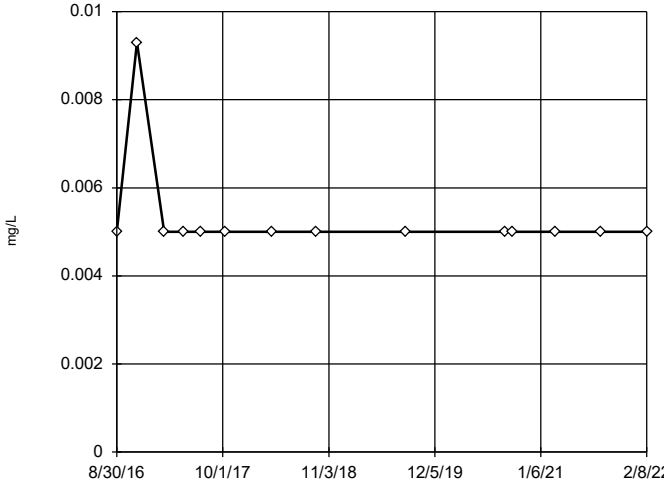
High cutoff = 0.04253, low cutoff = 0.000288, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

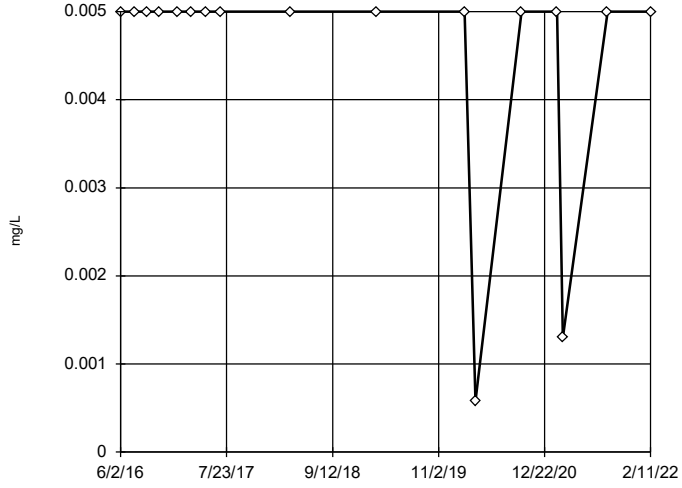
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:39 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 17

No outliers found. Tukey's method selected by user.

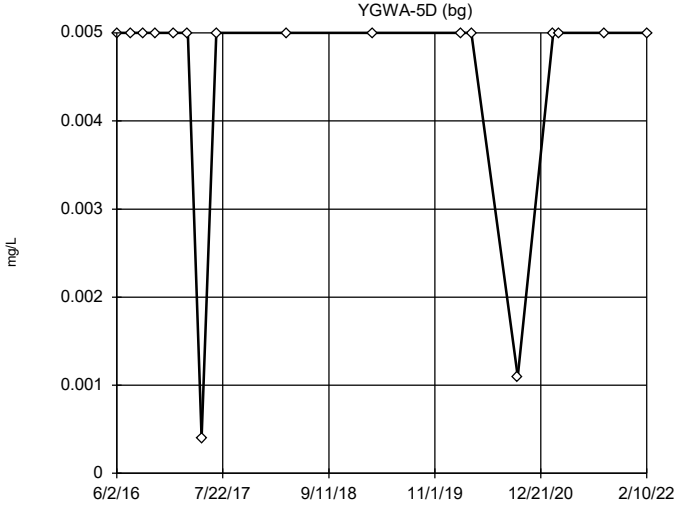
Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

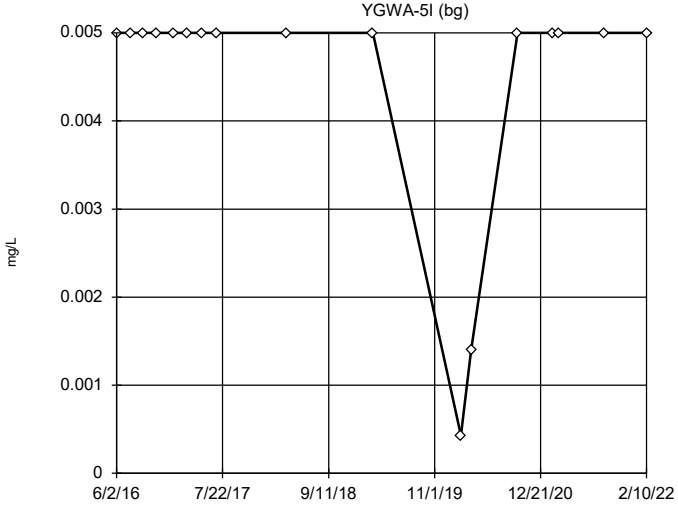
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

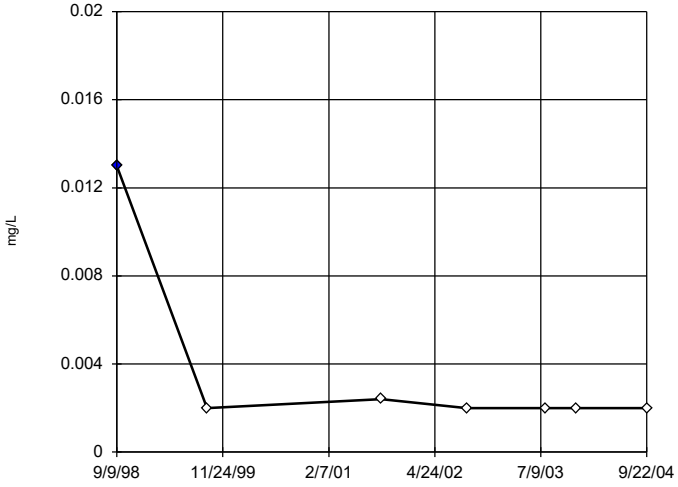
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

Outlier is drawn as solid. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

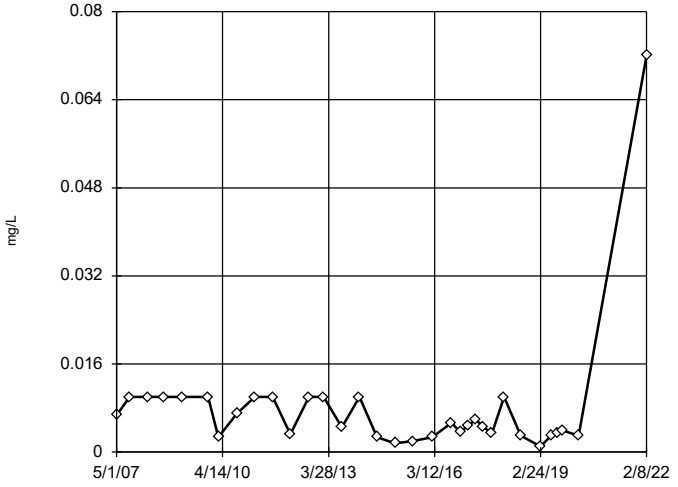
High cutoff = 0.004147, low cutoff = 0.001157, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 33

No outliers found. Tukey's method selected by user.

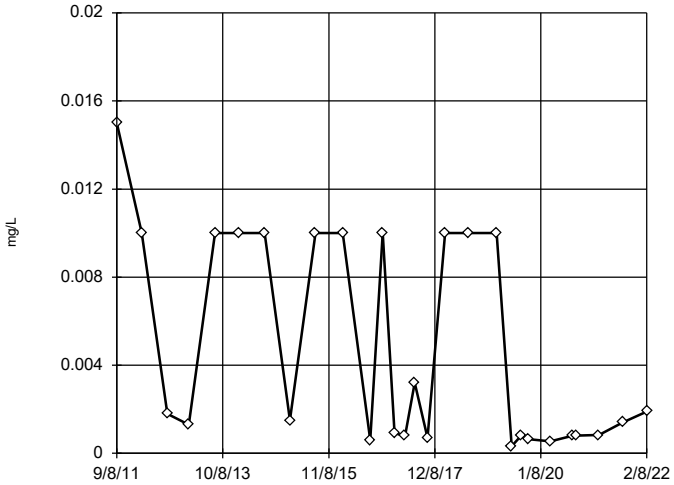
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.3704, low cutoff = 0.000081, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 19.53, low cutoff = 4.1e-7, based on IQR multiplier of 3.

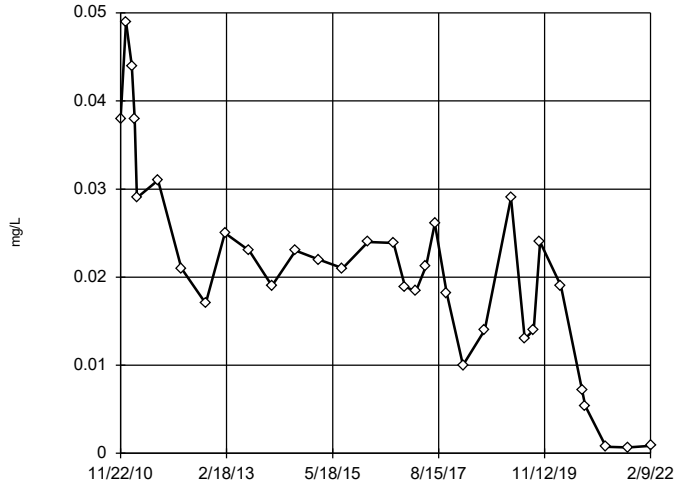
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.0602, low cutoff = -0.02065, based on IQR multiplier of 3.

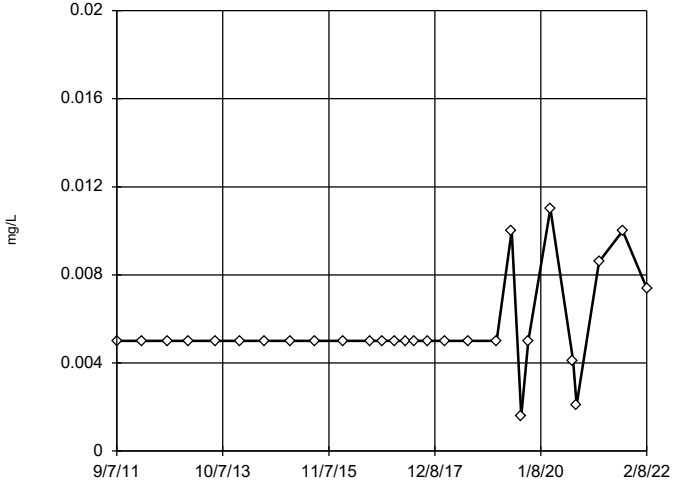
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

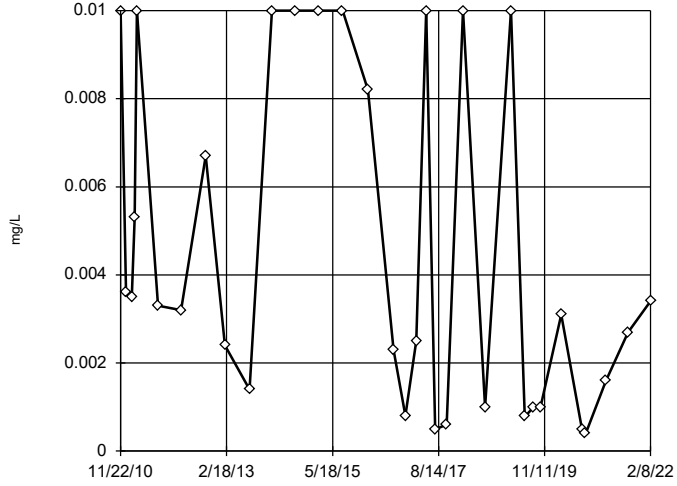
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

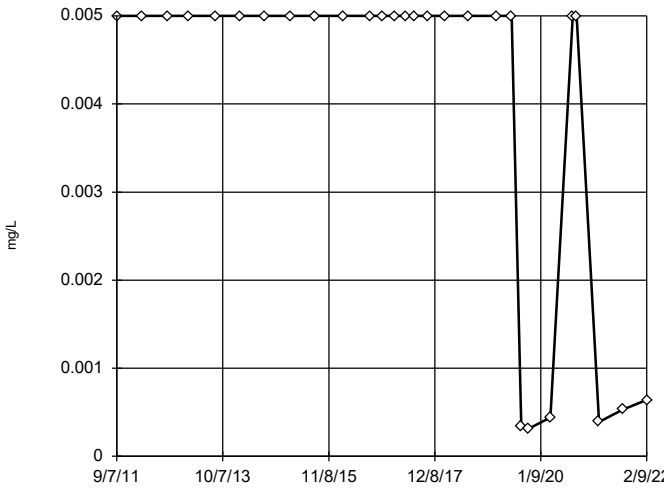
High cutoff = 10, low cutoff = 0.000001, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

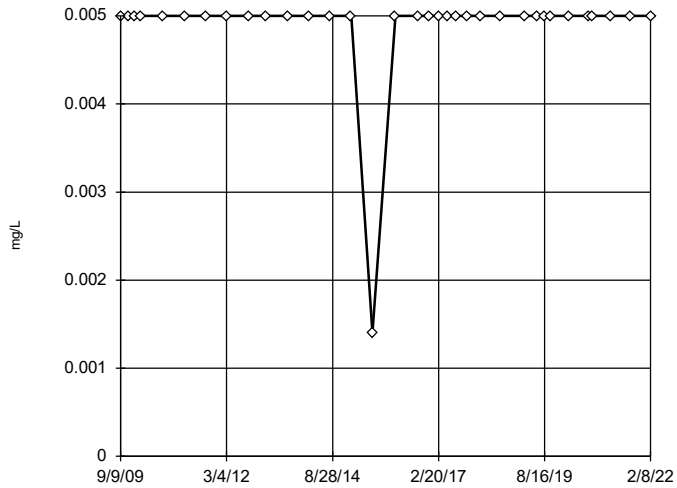
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

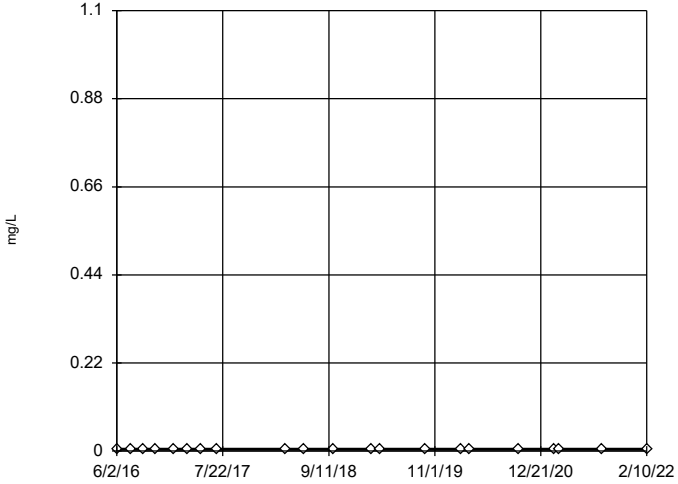
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

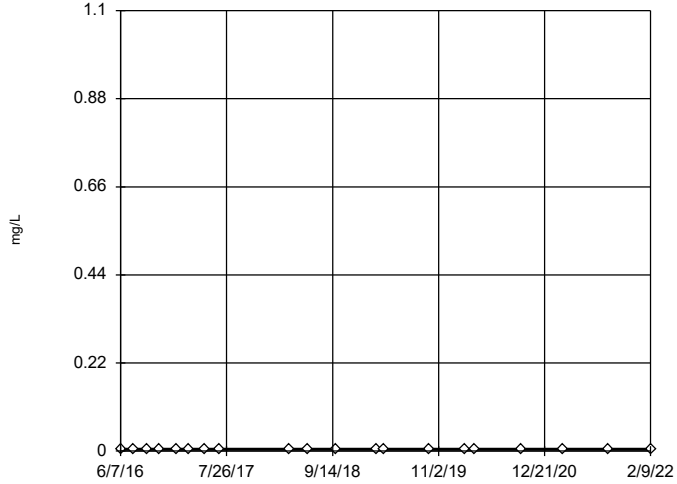
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

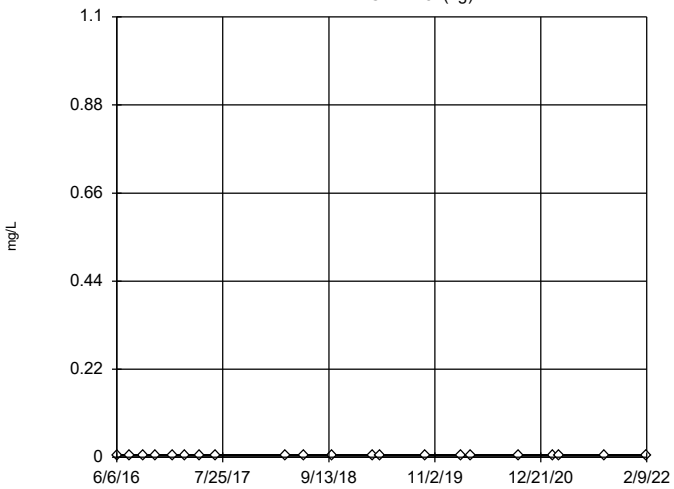
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

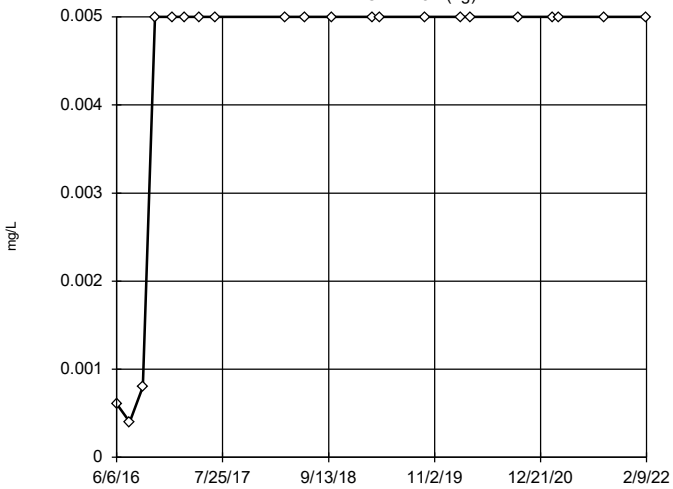
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

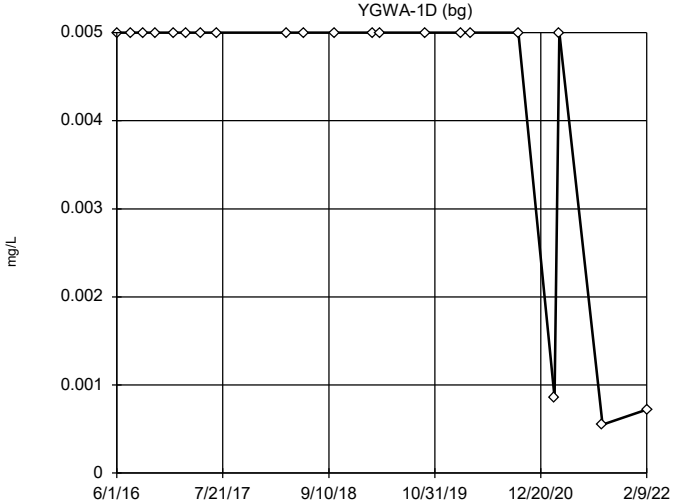
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

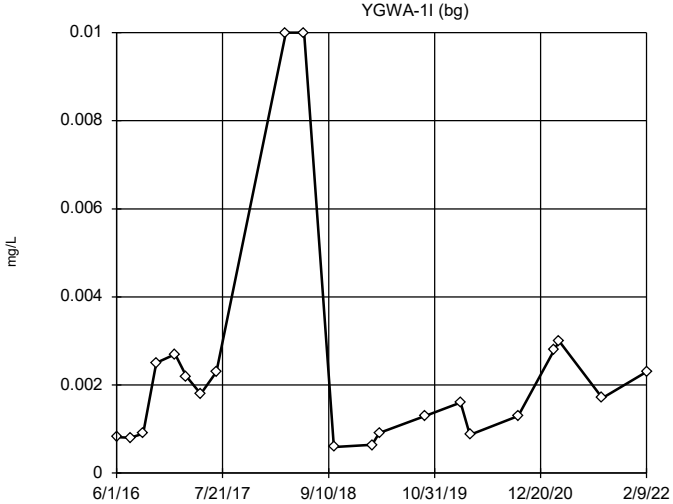
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 21

No outliers found. Tukey's method selected by user.

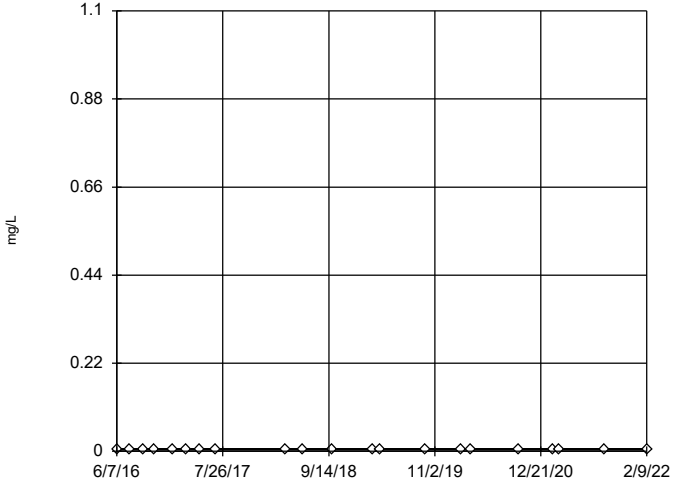
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.06576, low cutoff = 0.00003496, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

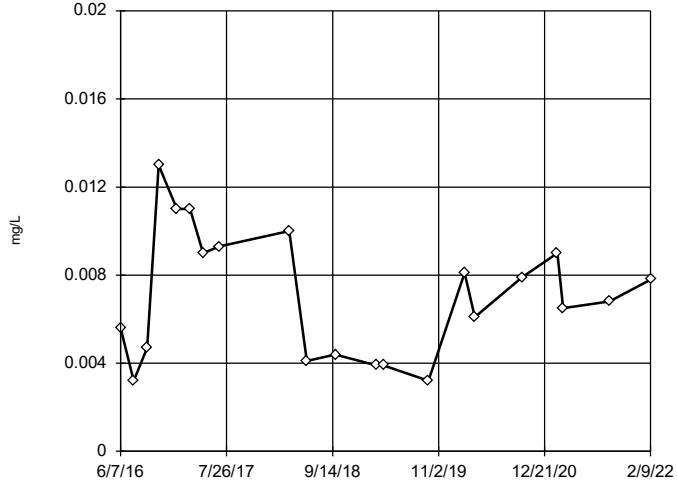
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

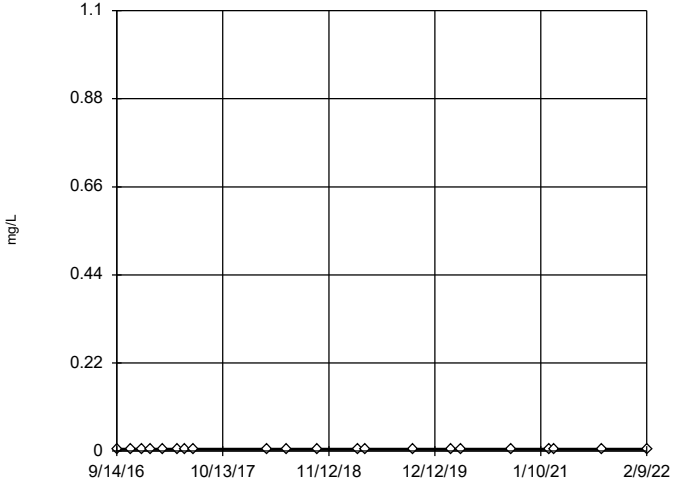
High cutoff = 0.03499, low cutoff = -0.000688, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)

n = 21

No outliers found. Tukey's method selected by user.

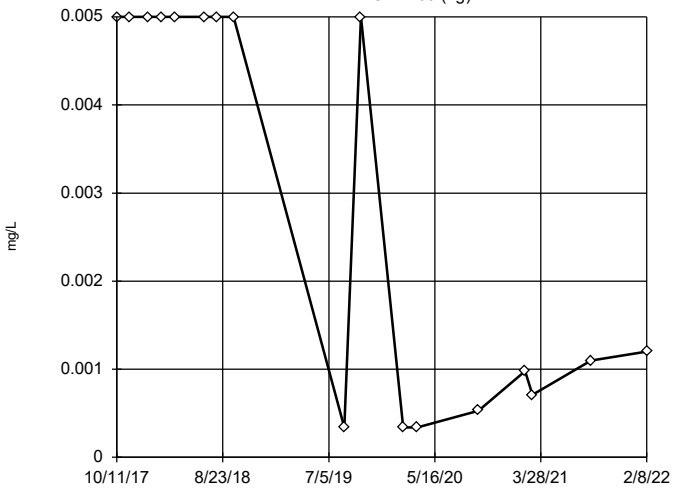
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.046, low cutoff = -0.03691, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 2.708, low cutoff = 0.000001133, based on IQR multiplier of 3.

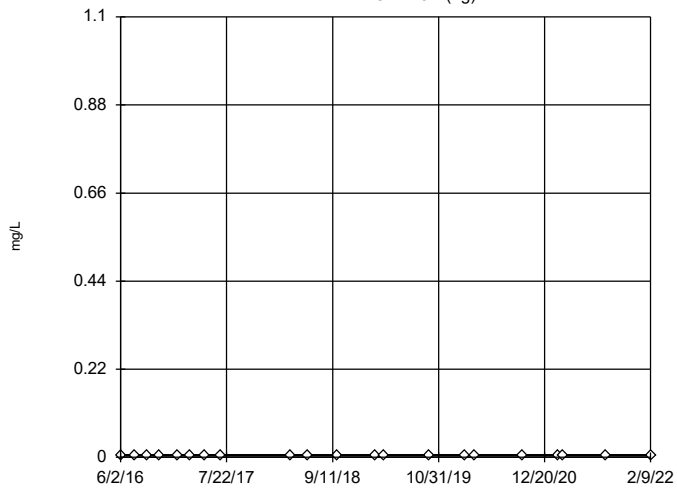
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

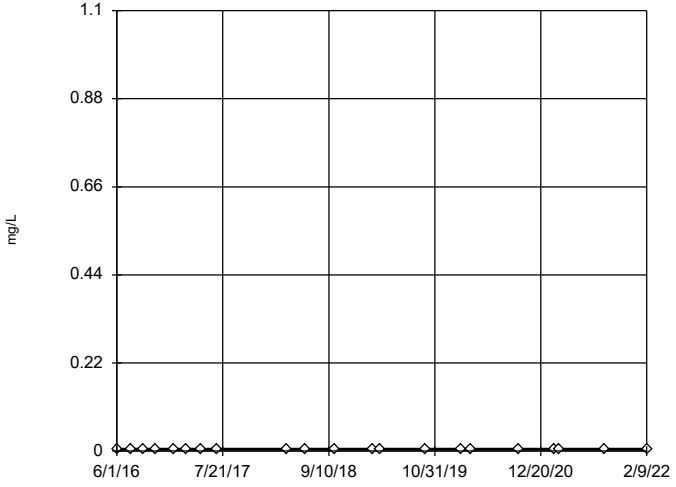
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

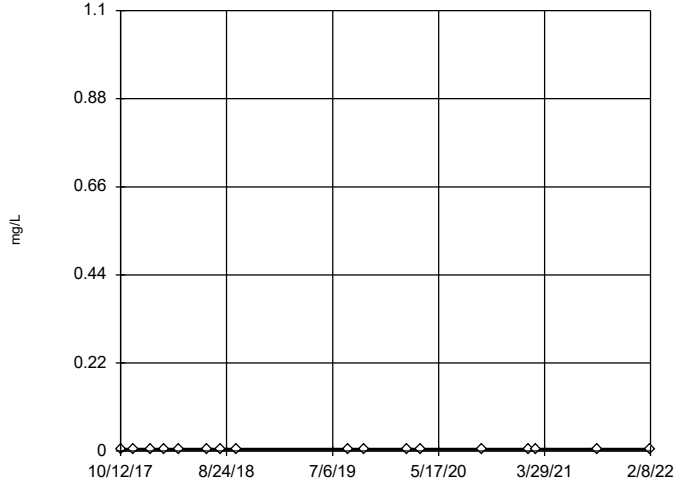
Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

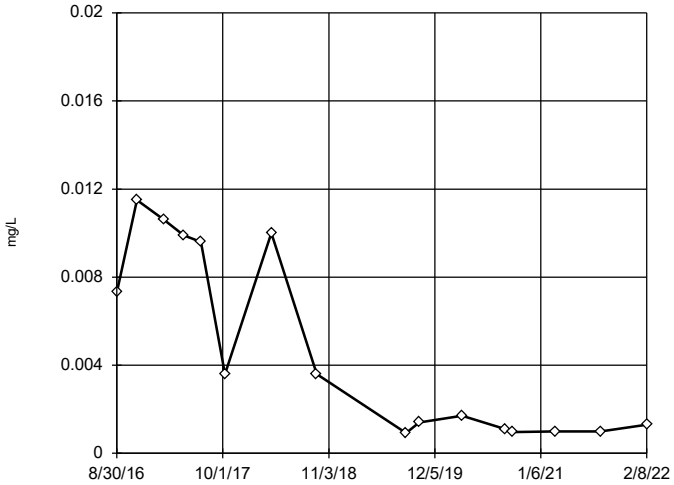
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

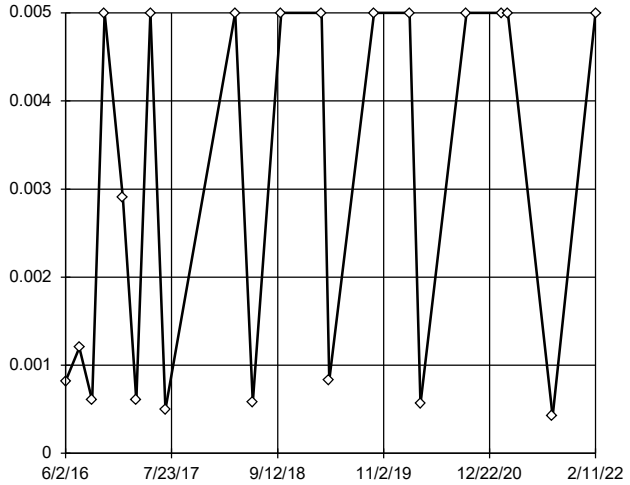
High cutoff = 7.829, low cutoff = 0.000001306, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

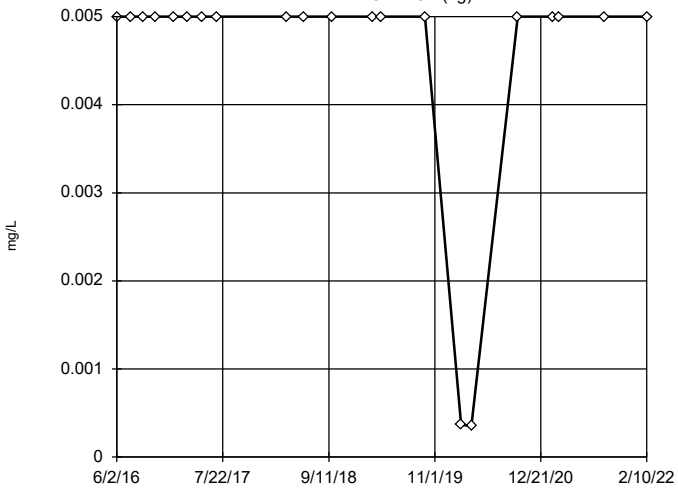
High cutoff = 2.894, low cutoff = 0.000001037, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

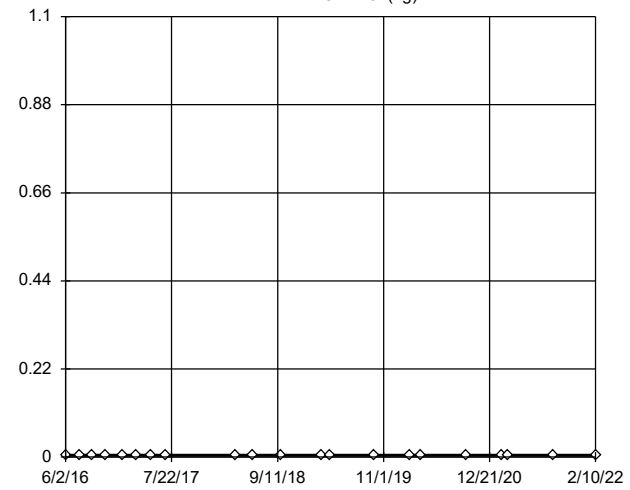
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

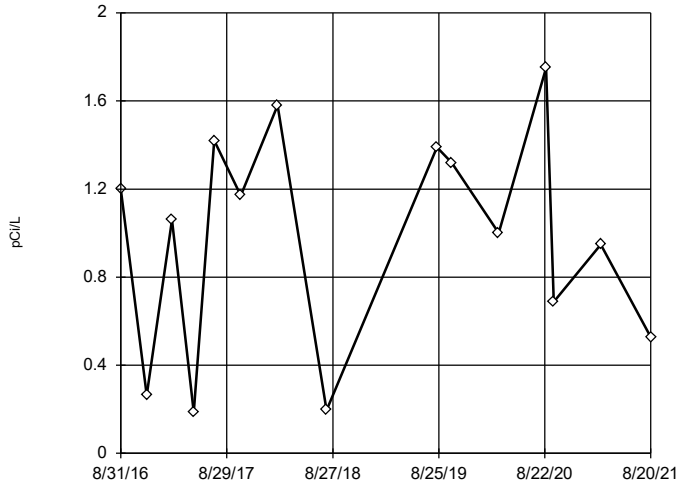
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

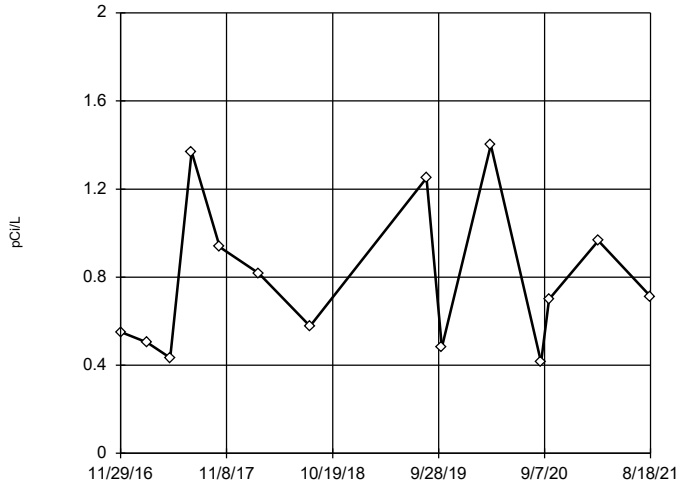
High cutoff = 2.625, low cutoff = -2.164, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

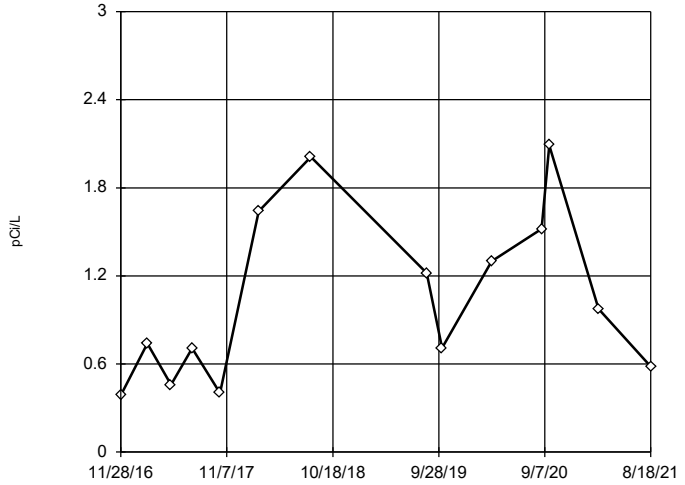
High cutoff = 12.18, low cutoff = 0.04448, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

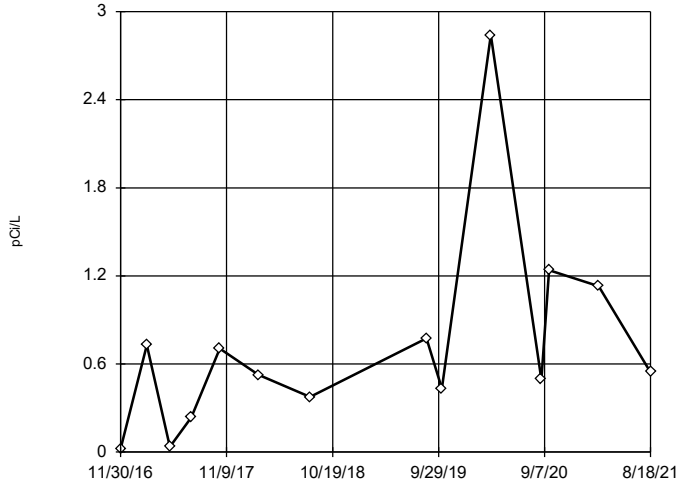
High cutoff = 45.04, low cutoff = 0.01811, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 14

No outliers found. Tukey's method selected by user.

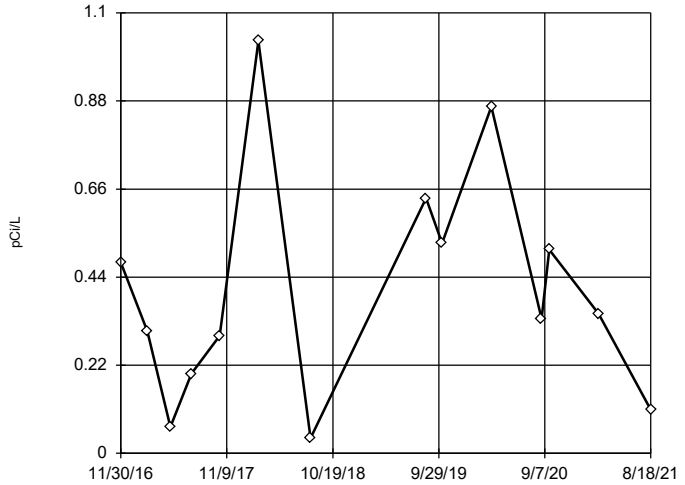
Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.952, low cutoff = -0.01725, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-4R



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.538, low cutoff = -0.5352, based on IQR multiplier of 3.

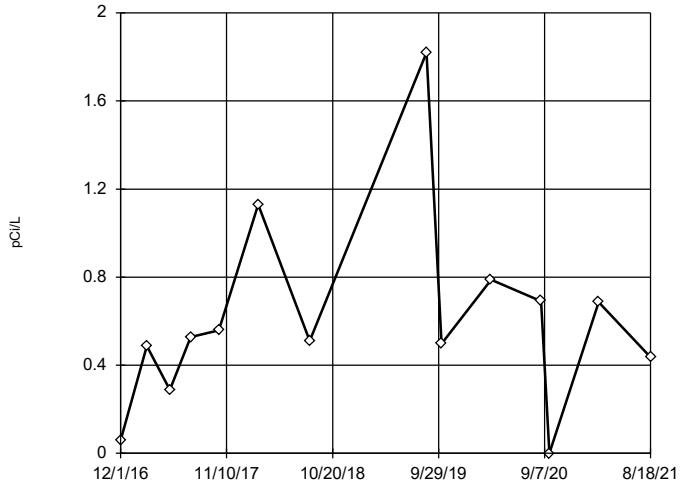
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 14

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 2.689, low cutoff = -0.03281, based on IQR multiplier of 3.

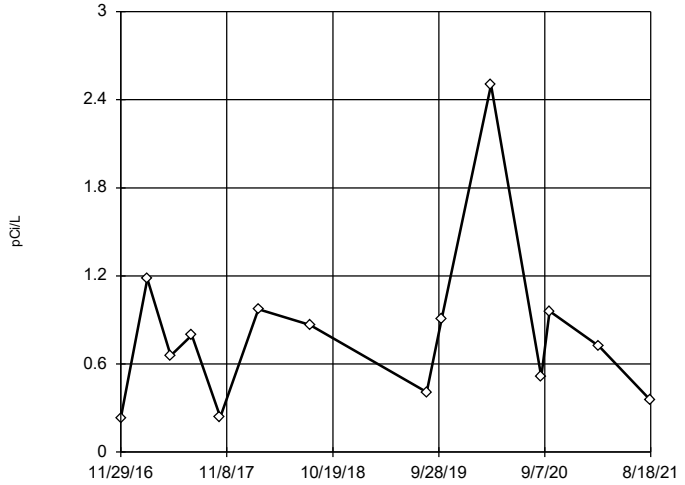
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 15.97, low cutoff = 0.02296, based on IQR multiplier of 3.

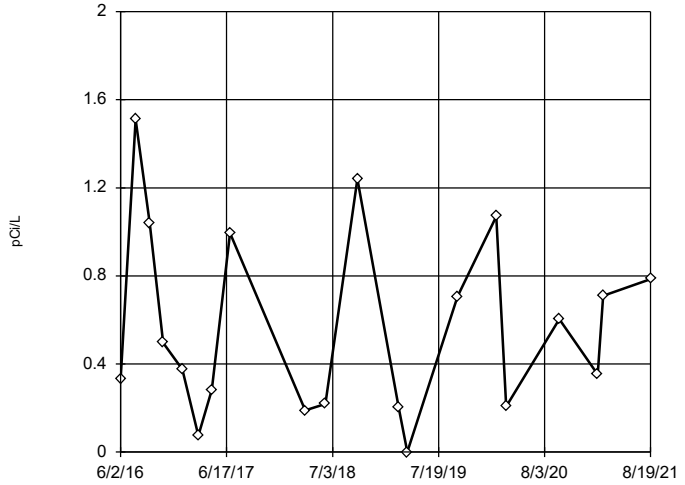
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

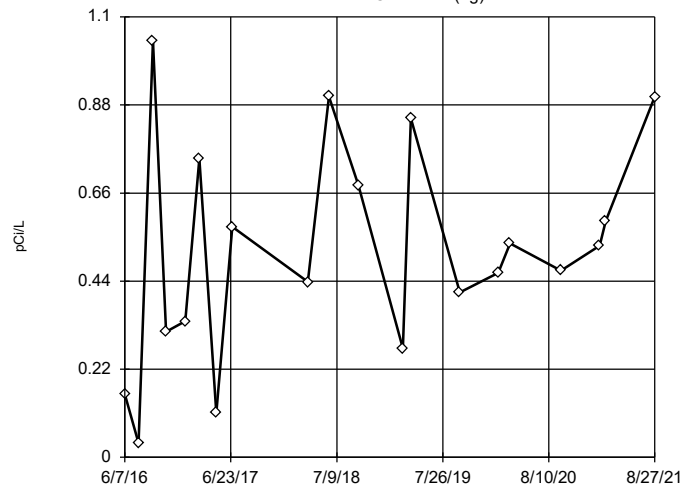
High cutoff = 5.685, low cutoff = -0.9635, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 1.871, low cutoff = -0.831, based on IQR multiplier of 3.

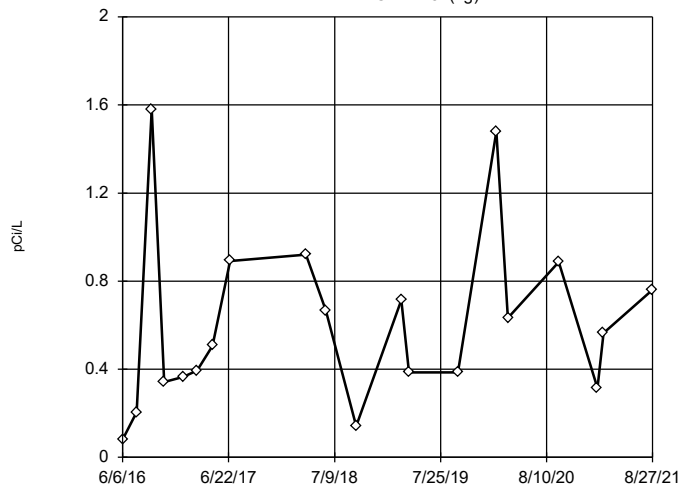
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 4.304, low cutoff = 0.000005136, based on IQR multiplier of 3.

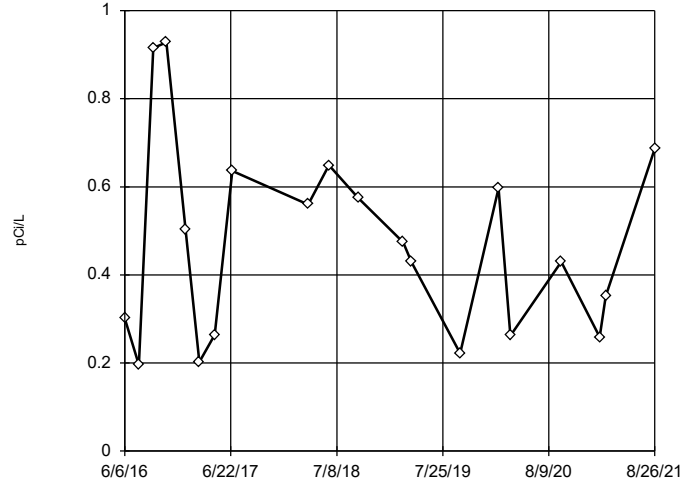
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.254, low cutoff = 9.4e-7, based on IQR multiplier of 3.

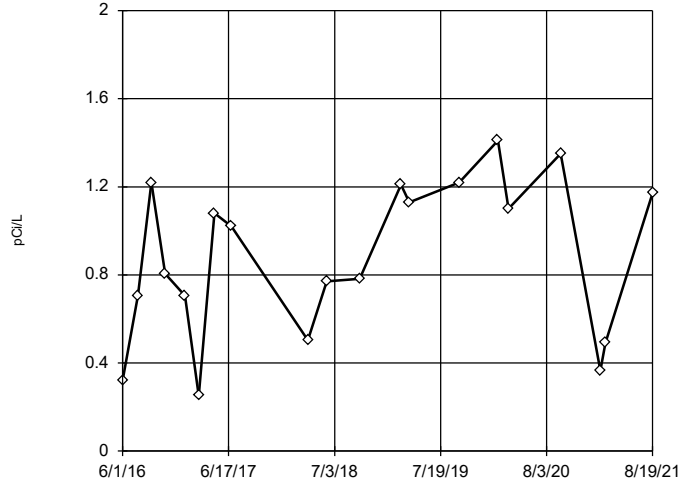
Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 20

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

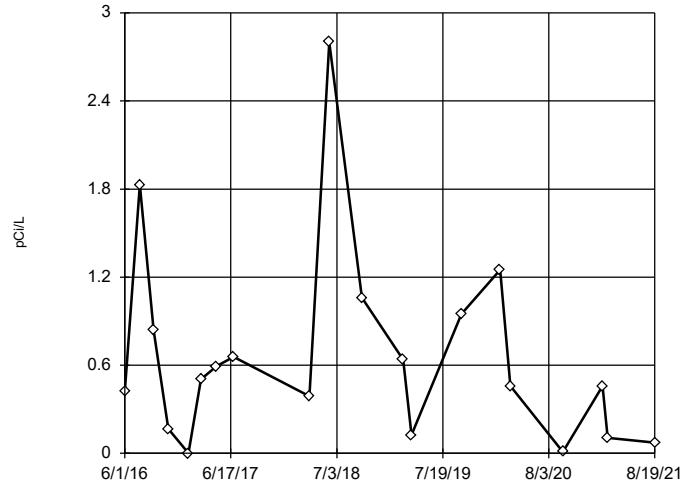
High cutoff = 2.948, low cutoff = -1.154, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1I (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

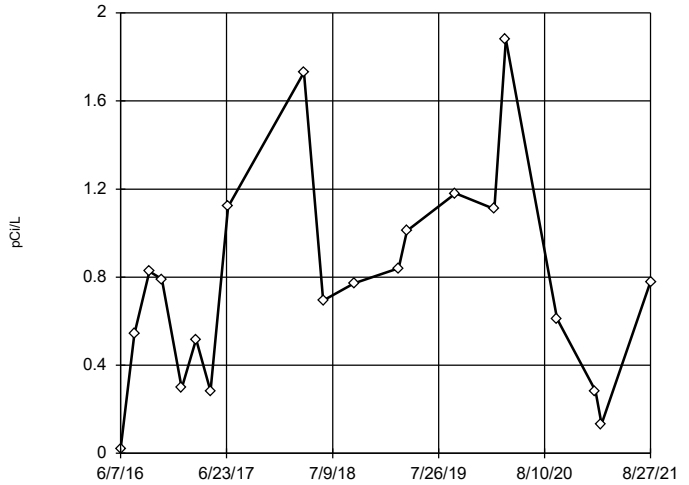
High cutoff = 6.975, low cutoff = -1.729, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

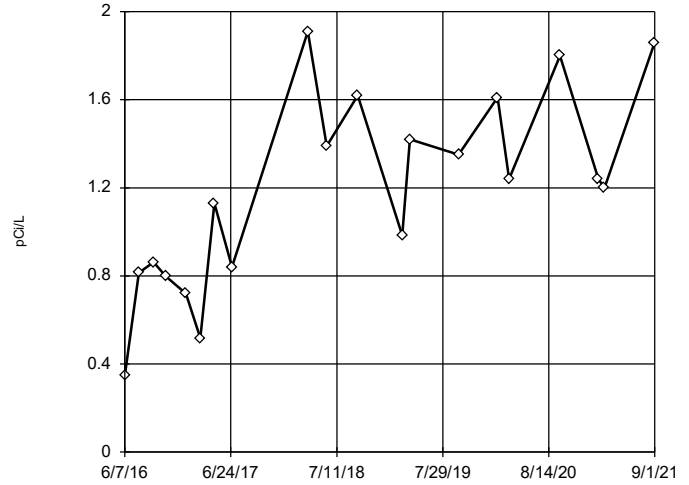
High cutoff = 4.935, low cutoff = -0.3139, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 20

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

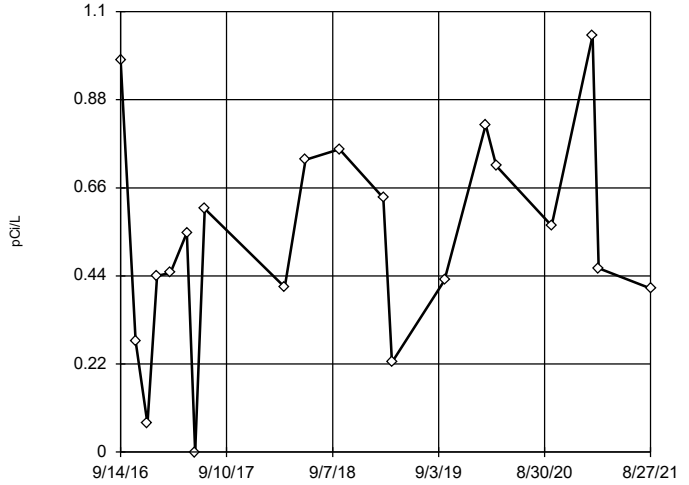
High cutoff = 3.576, low cutoff = -1.233, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 20

No outliers found. Tukey's method selected by user.

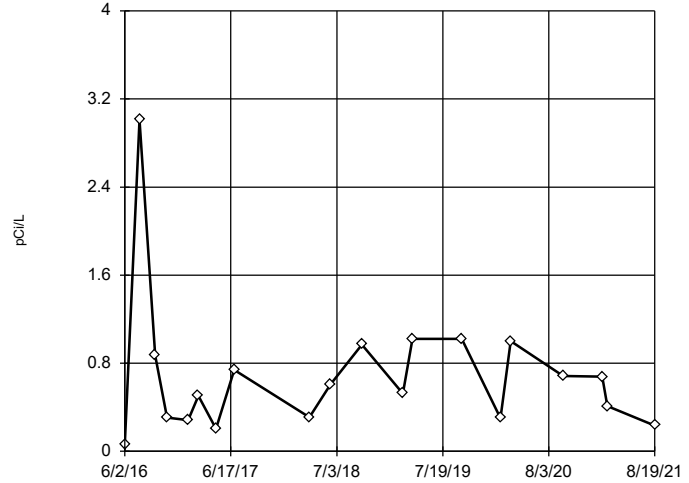
Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 1.659, low cutoff = -0.5255, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-30I (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

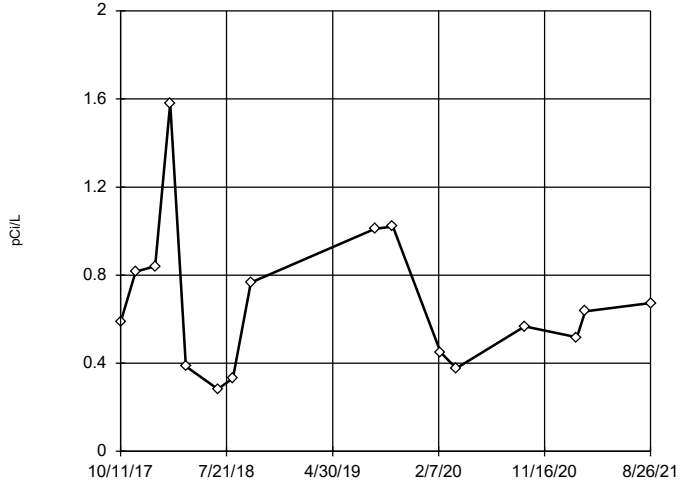
High cutoff = 25.41, low cutoff = 0.011, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

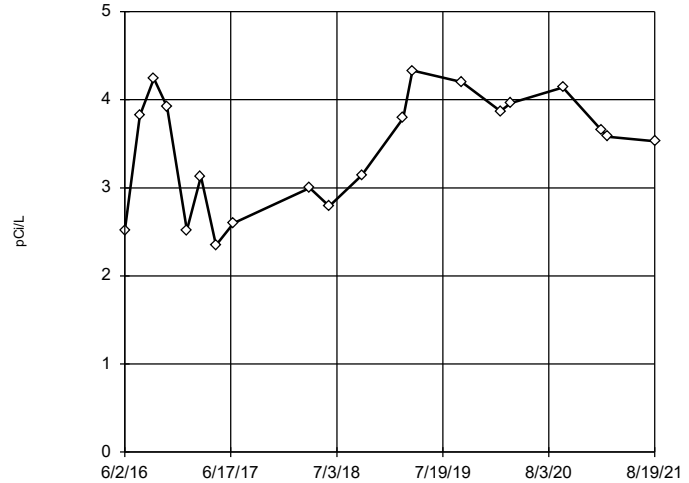
High cutoff = 6.531, low cutoff = 0.0528, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

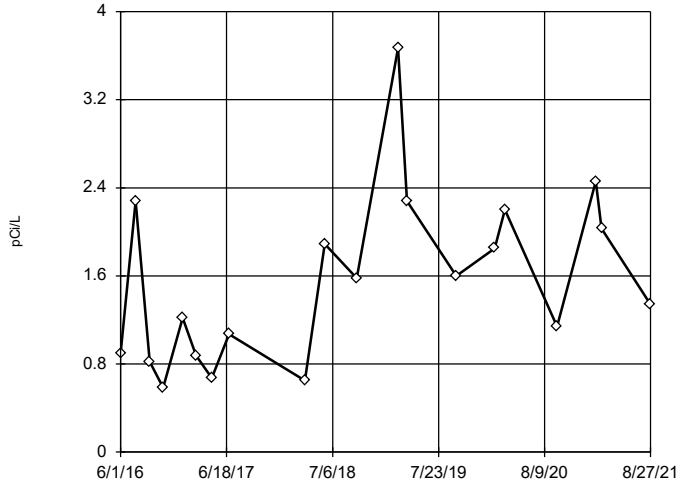
High cutoff = 5.557, low cutoff = -4.415, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 20

No outliers found. Tukey's method selected by user.

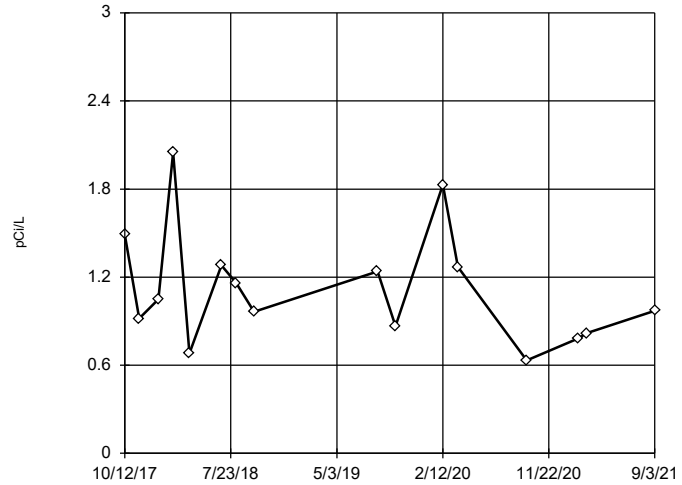
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 28.63, low cutoff = 0.06542, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-40 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

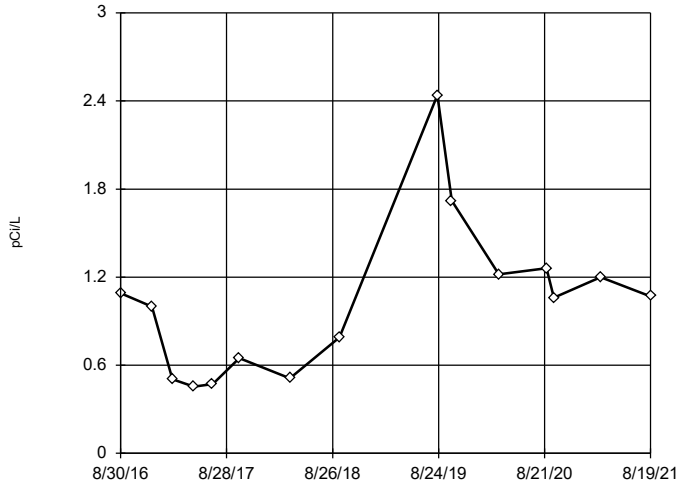
High cutoff = 4.432, low cutoff = 0.2421, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

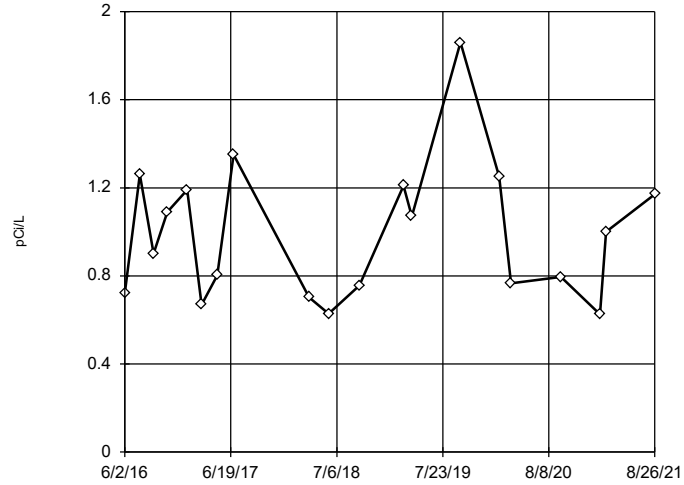
High cutoff = 16.51, low cutoff = 0.03784, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

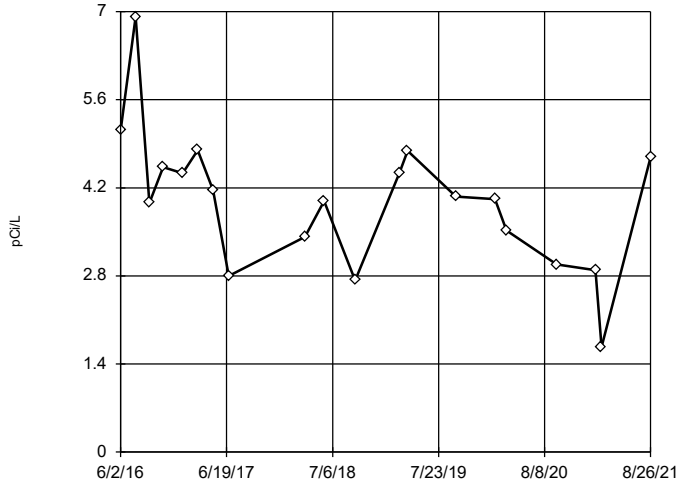
High cutoff = 5.152, low cutoff = 0.172, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 20

No outliers found. Tukey's method selected by user.

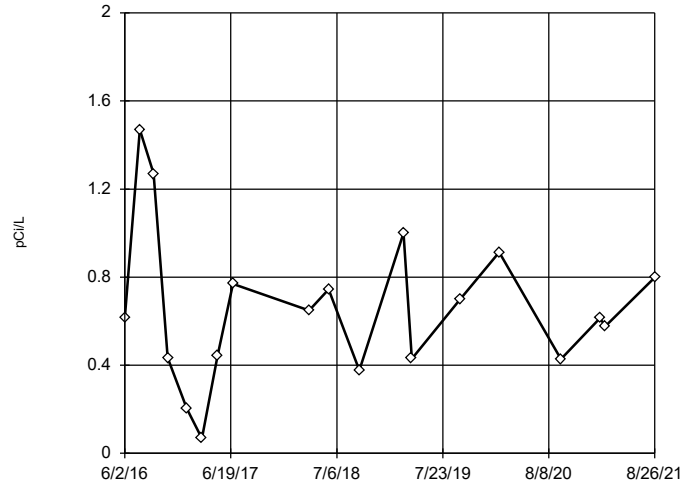
Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 10.37, low cutoff = 0.5093, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5I (bg)



n = 19

No outliers found.
Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

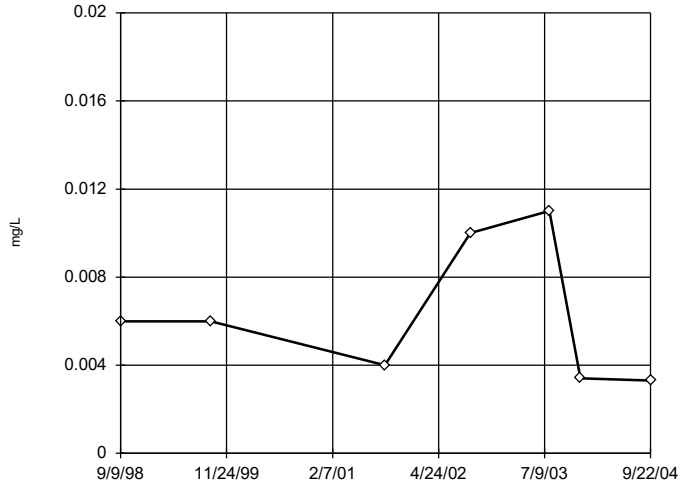
High cutoff = 2.579, low cutoff = -0.003243, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intraw
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

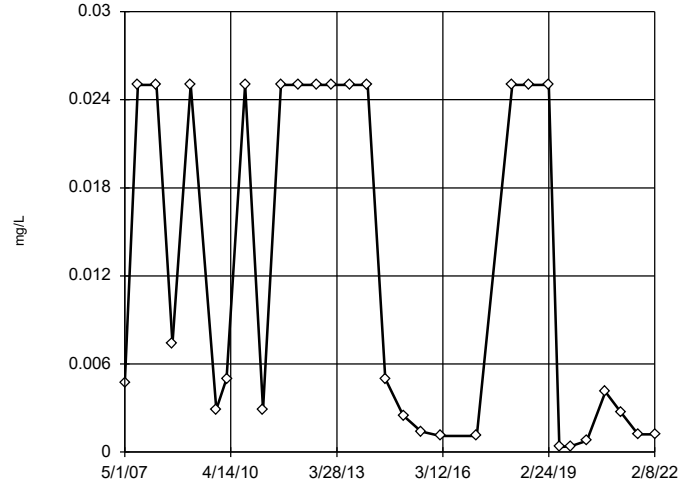
High cutoff = 0.2544, low cutoff = 0.0001336, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 30

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

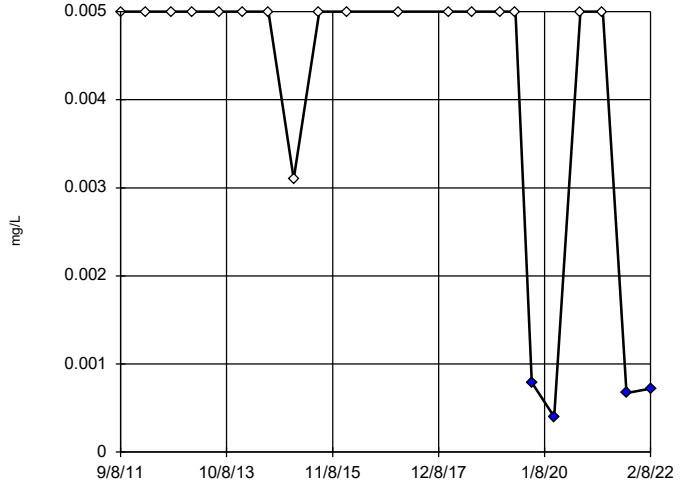
High cutoff = 179.4, low cutoff = 1.8e-7, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 21

Outliers are drawn as solid.
Tukey's method selected by user.

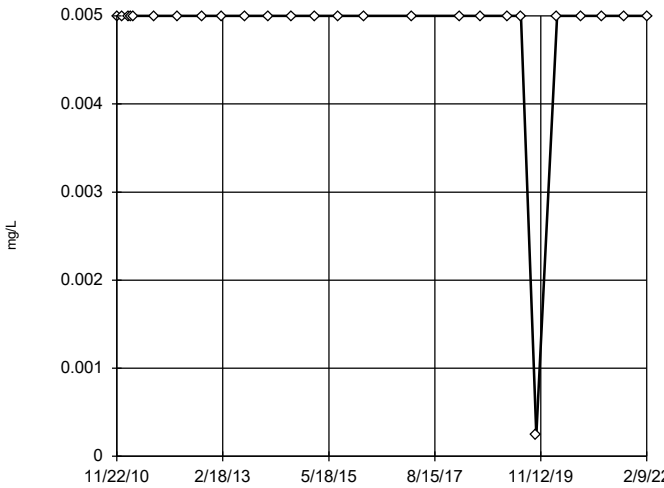
Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.00785, low cutoff = 0.0012, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 26

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

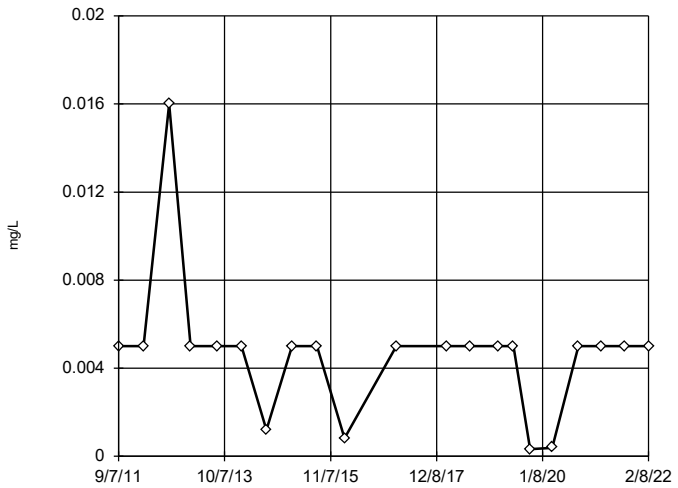
Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 21

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

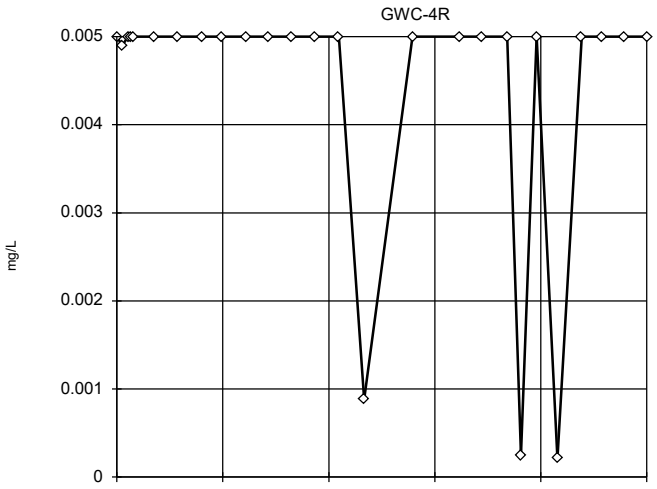
Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 26

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

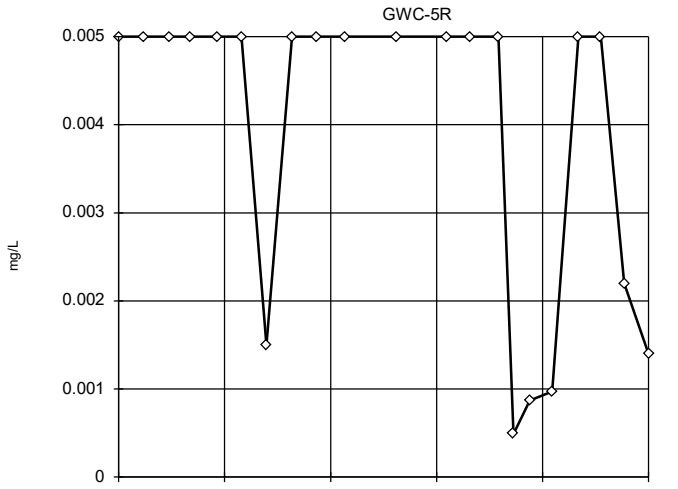
Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

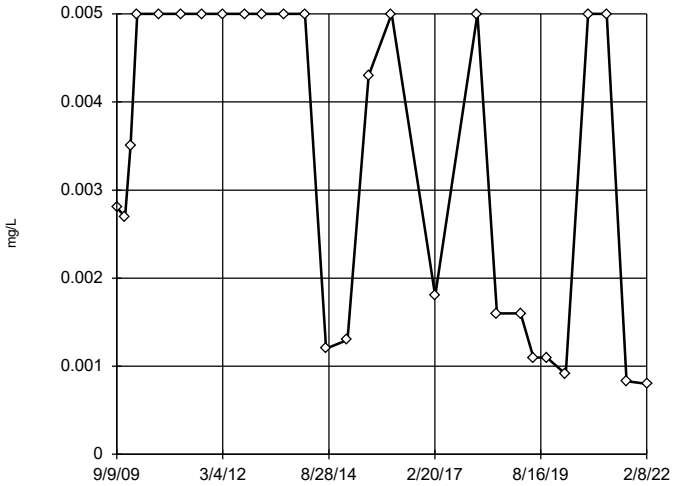
High cutoff = 0.1043, low cutoff = 0.00008712, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 27

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

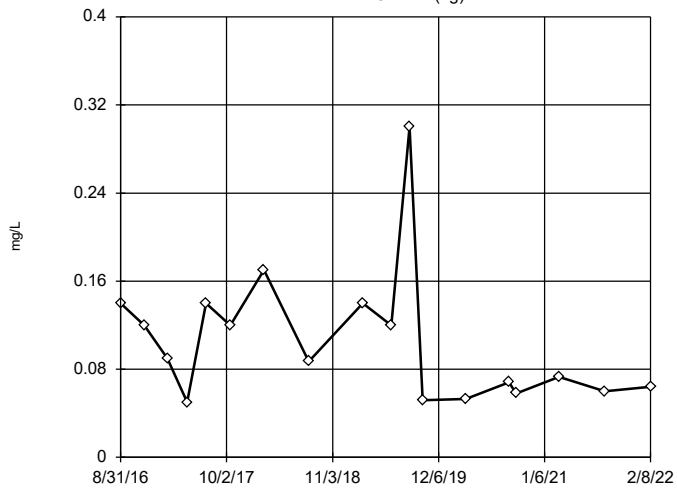
High cutoff = 0.2845, low cutoff = 0.00002285, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 2:40 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 18

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

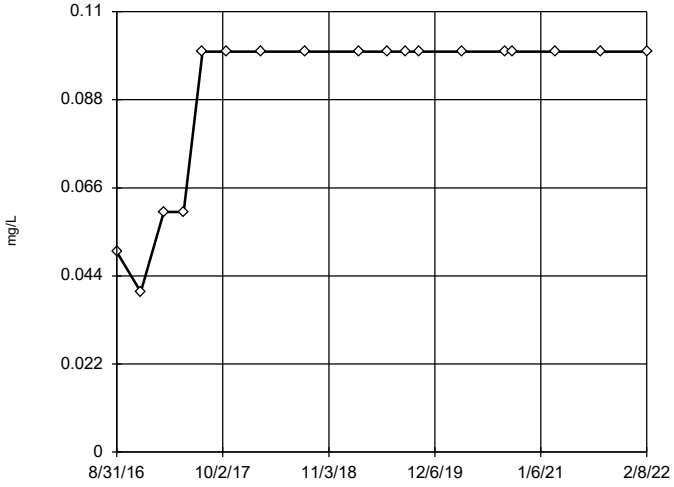
High cutoff = 1.871, low cutoff = 0.004413, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 18

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

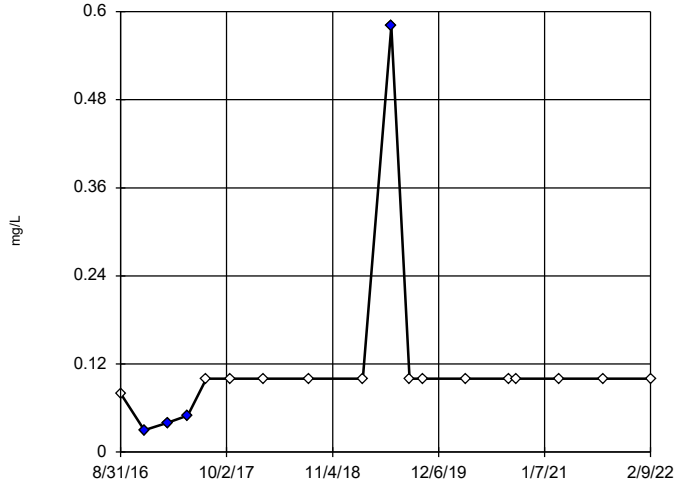
High cutoff = 0.2152, low cutoff = 0.036, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 18

Outliers are drawn as solid.
Tukey's method selected by user.

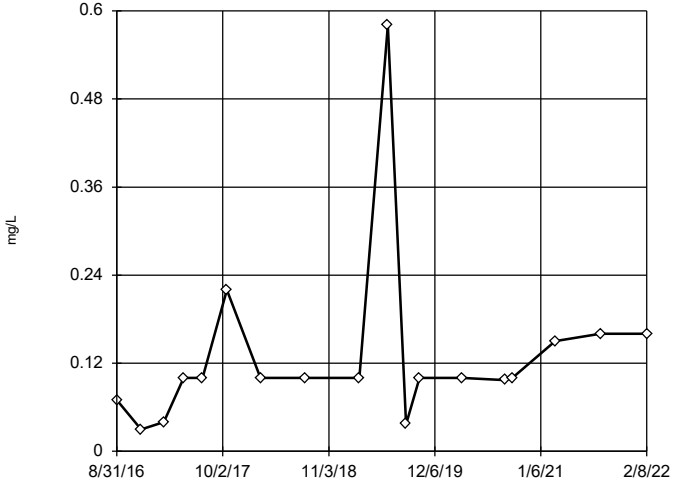
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1398, low cutoff = 0.064, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-3R



n = 18

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1.029, low cutoff = 0.0124, based on IQR multiplier of 3.

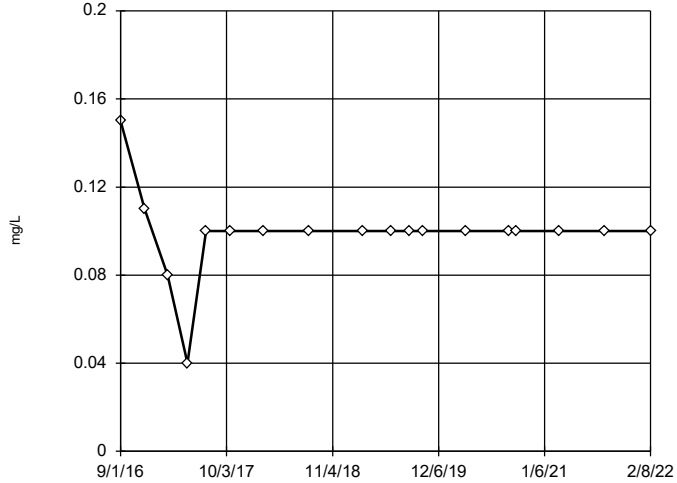
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 18

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

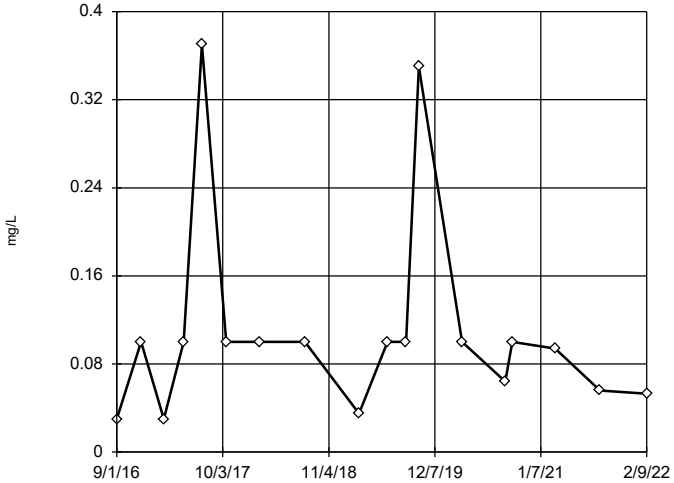
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 18

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.6184, low cutoff = 0.008809, based on IQR multiplier of 3.

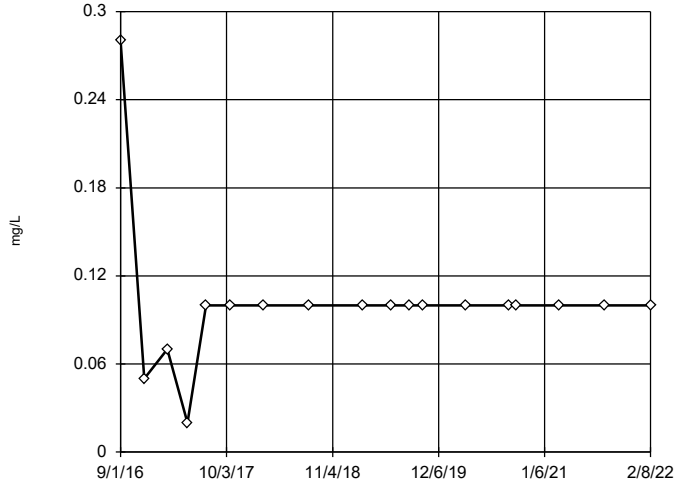
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 18

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

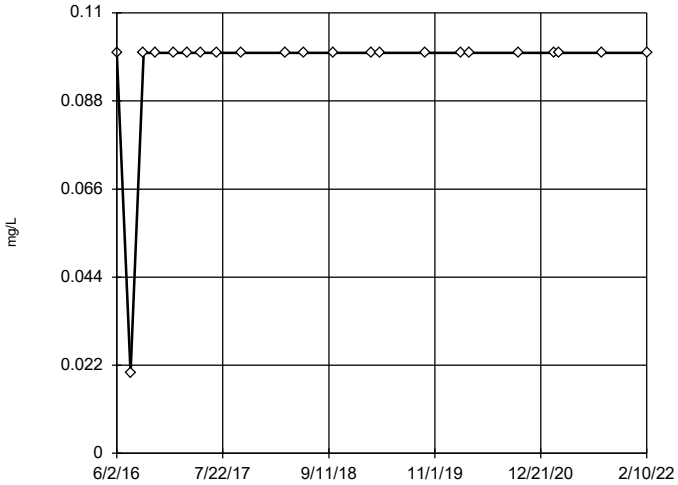
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-14S (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

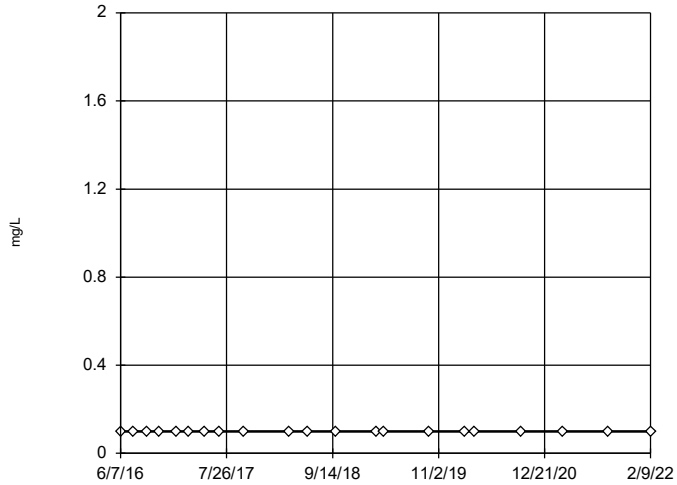
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

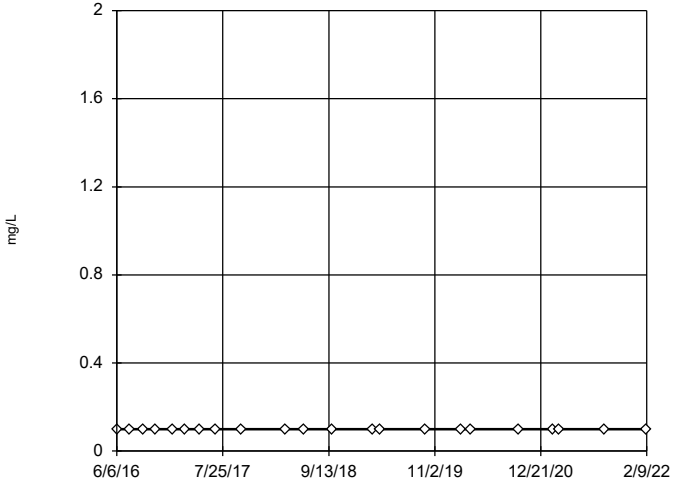
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

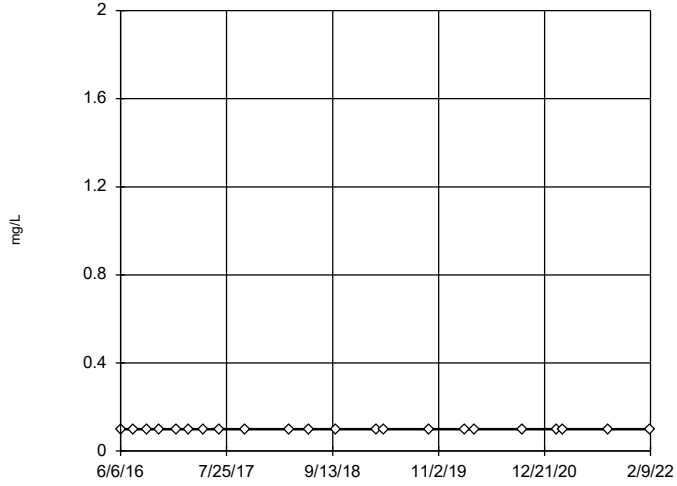
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

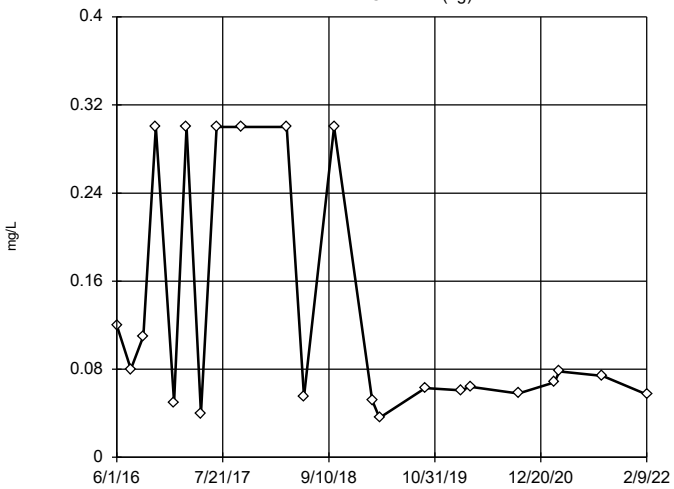
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1D (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 46.15, low cutoff = 0.000364, based on IQR multiplier of 3.

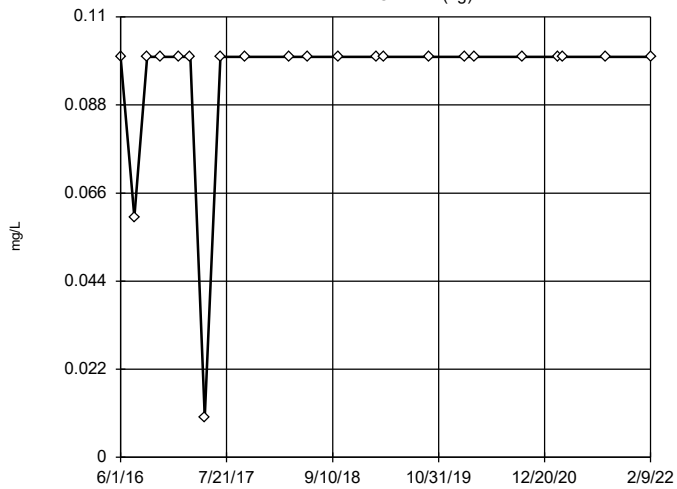
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

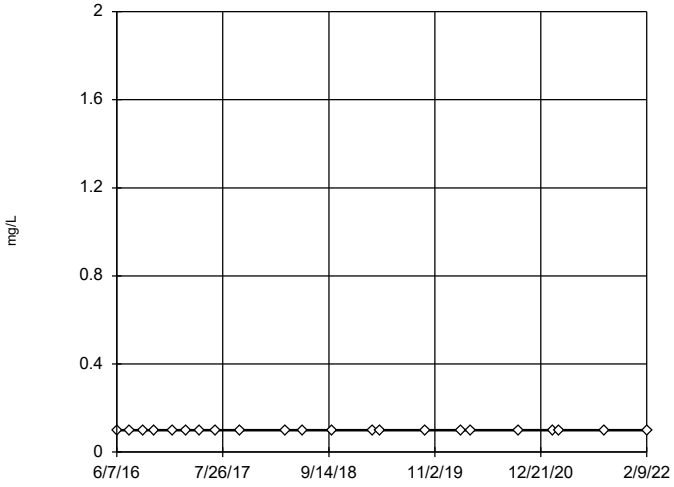
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

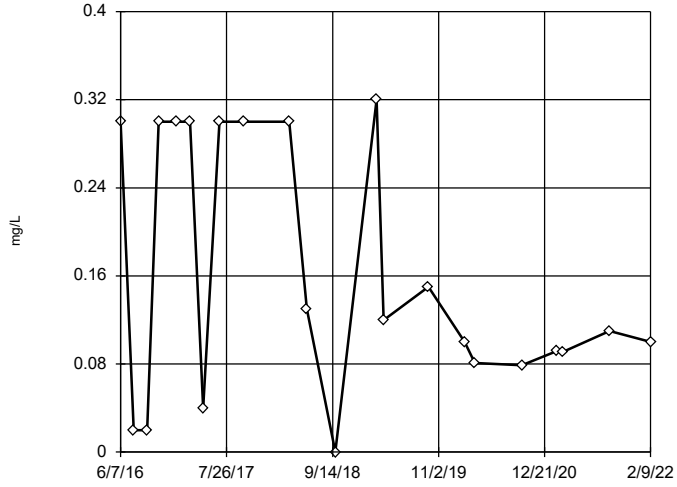
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

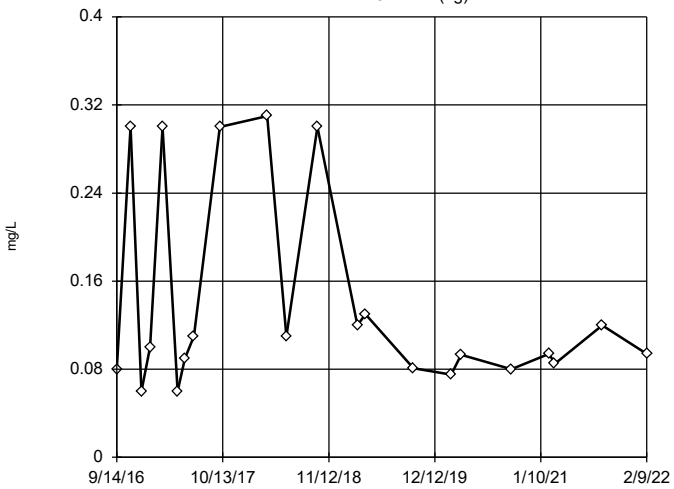
High cutoff = 1.802, low cutoff = -0.262, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-2I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 2.916, low cutoff = 0.005452, based on IQR multiplier of 3.

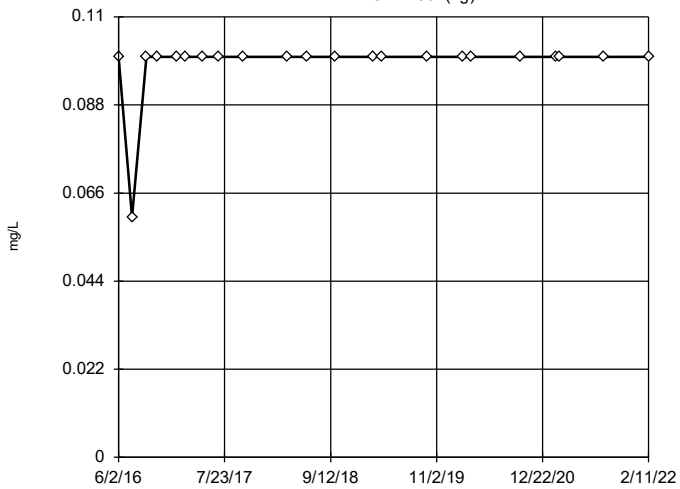
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

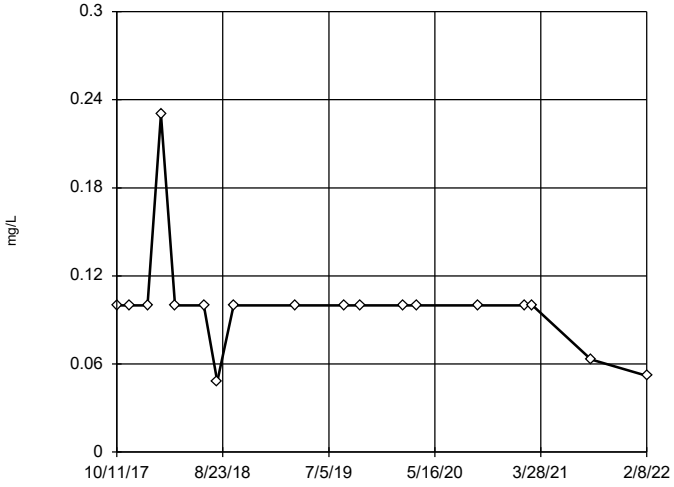
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

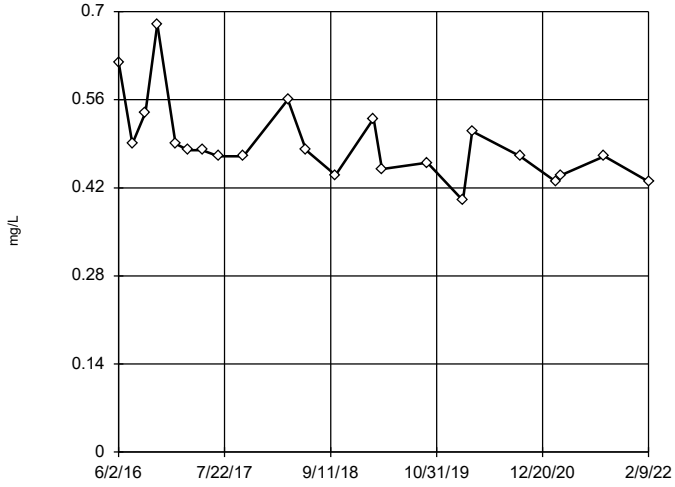
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

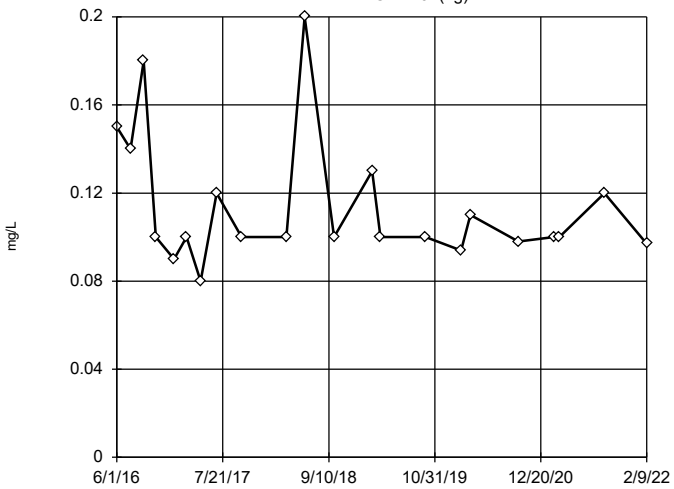
High cutoff = 0.8293, low cutoff = 0.279, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2508, low cutoff = 0.04929, based on IQR multiplier of 3.

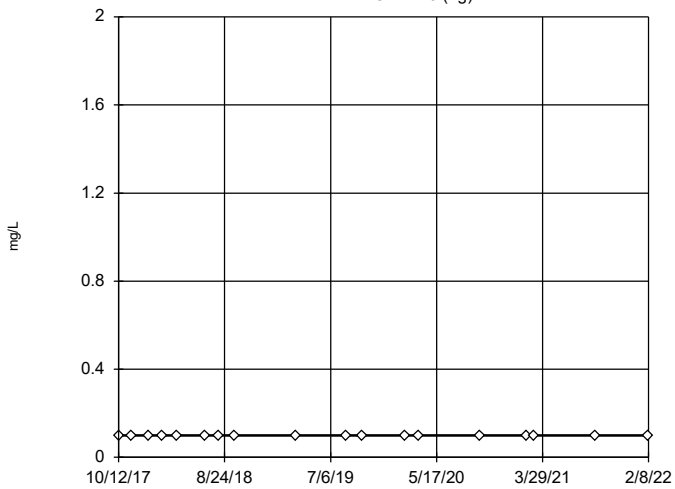
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

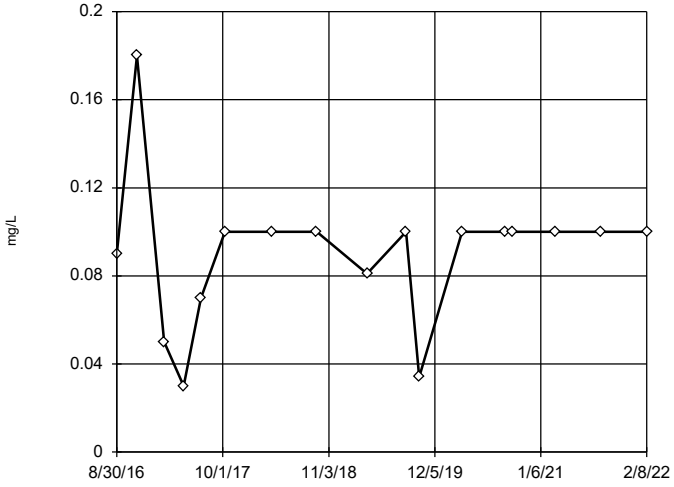
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1946, low cutoff = 0.0224, based on IQR multiplier of 3.

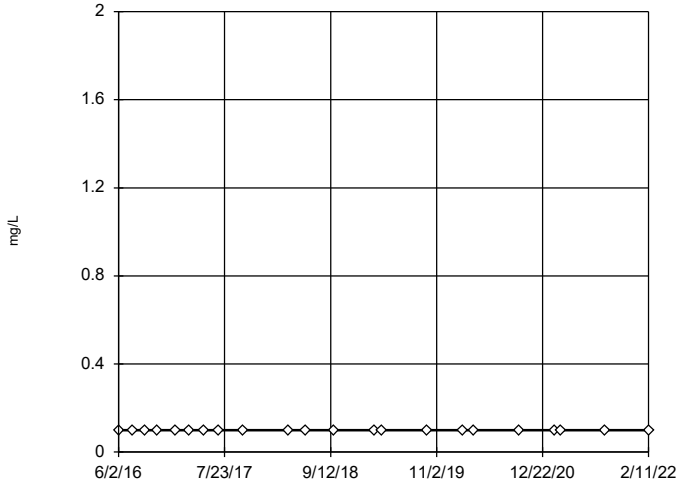
Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

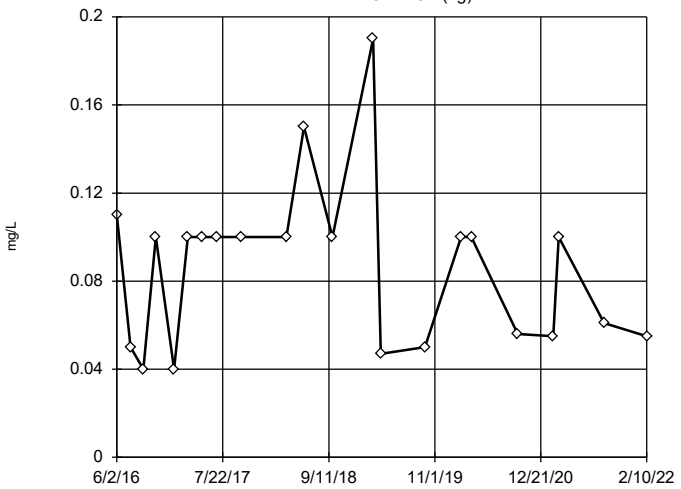
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5D (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

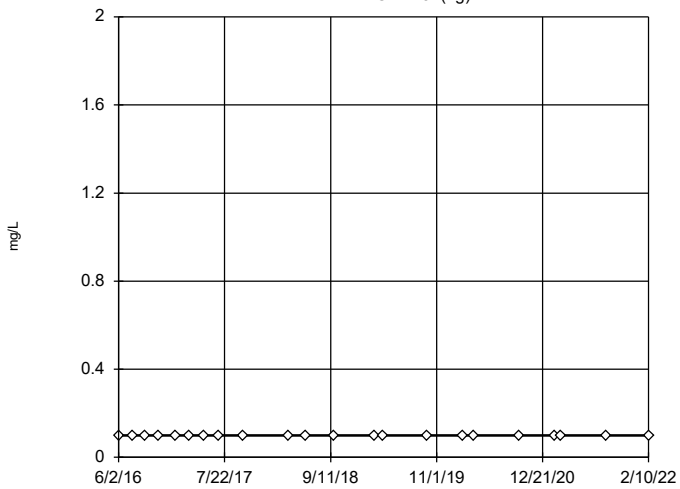
High cutoff = 0.6934, low cutoff = 0.007562, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

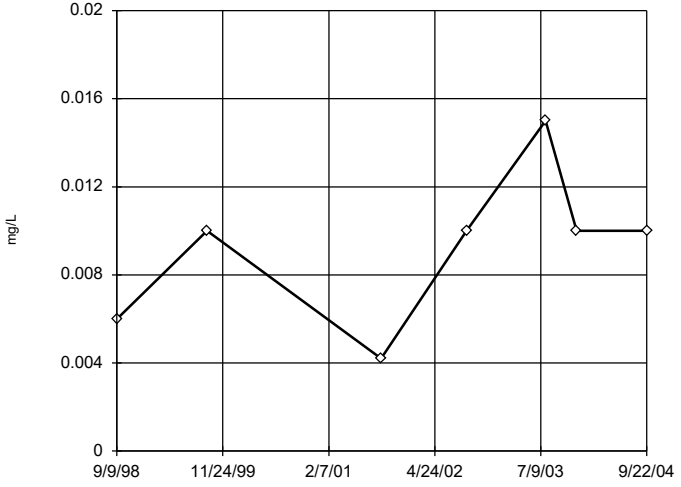
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

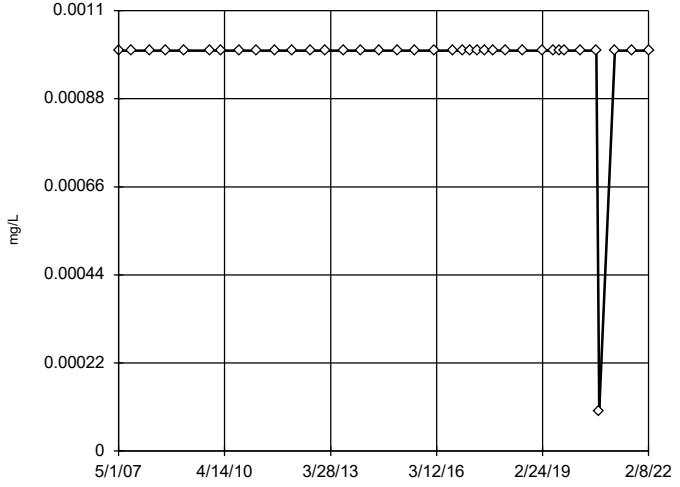
High cutoff = 0.022, low cutoff = -0.006, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

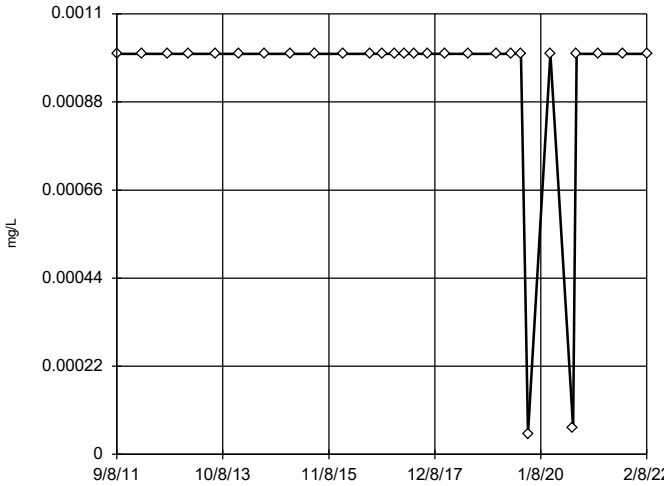
Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

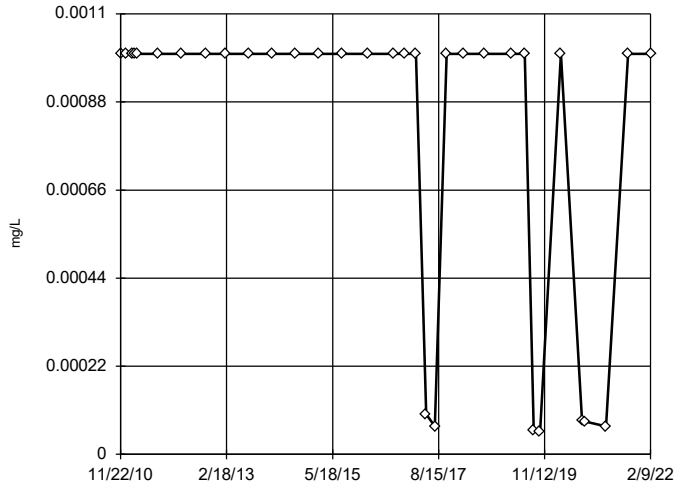
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

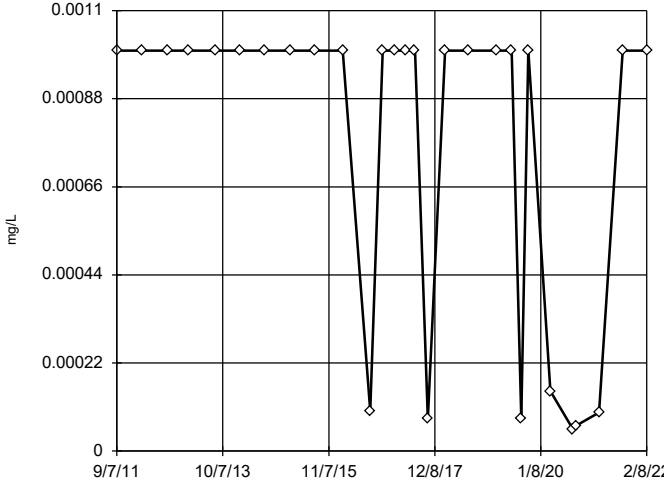
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01721, low cutoff = 0.0000225, based on IQR multiplier of 3.

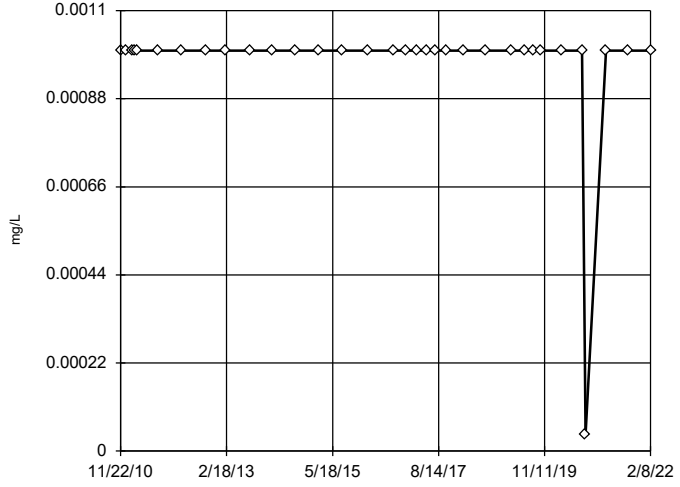
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

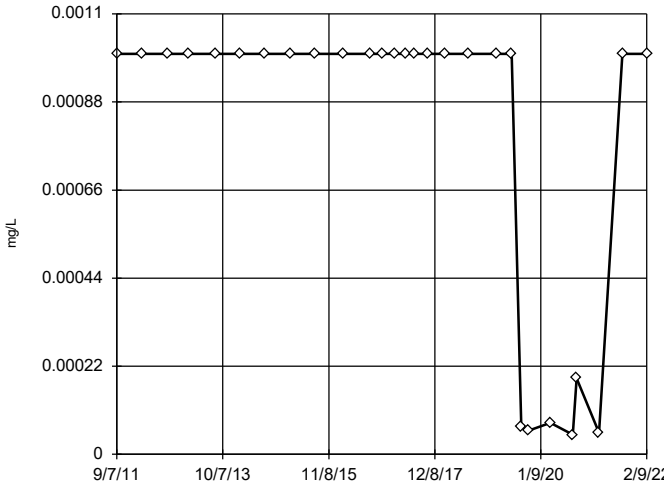
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

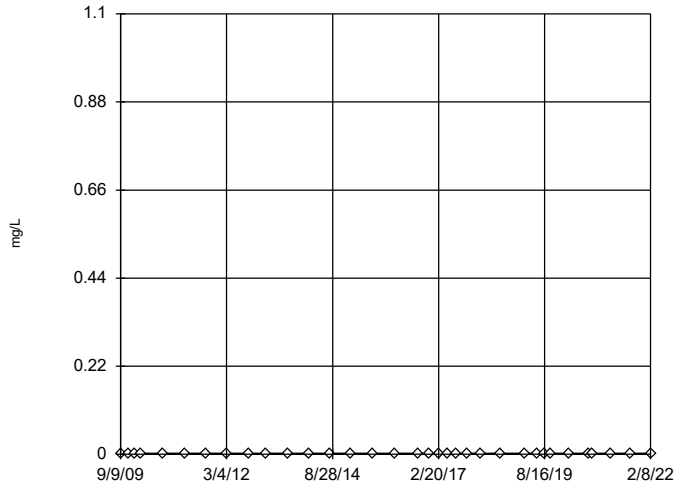
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

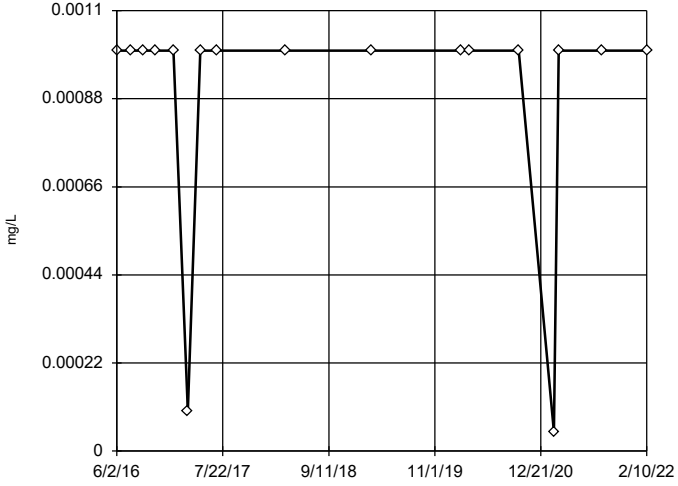
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

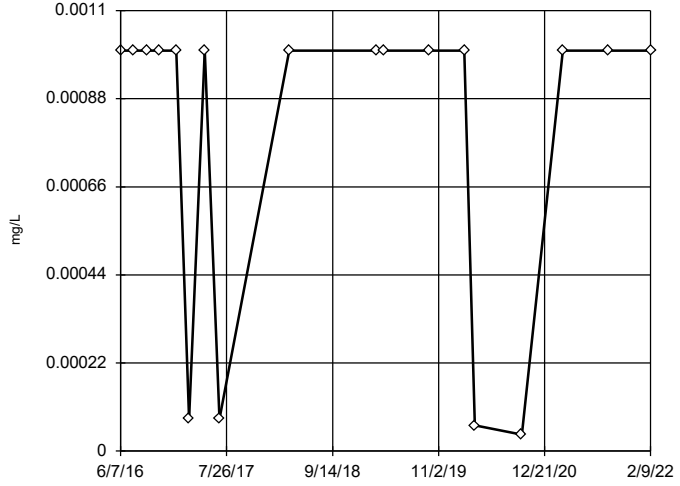
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

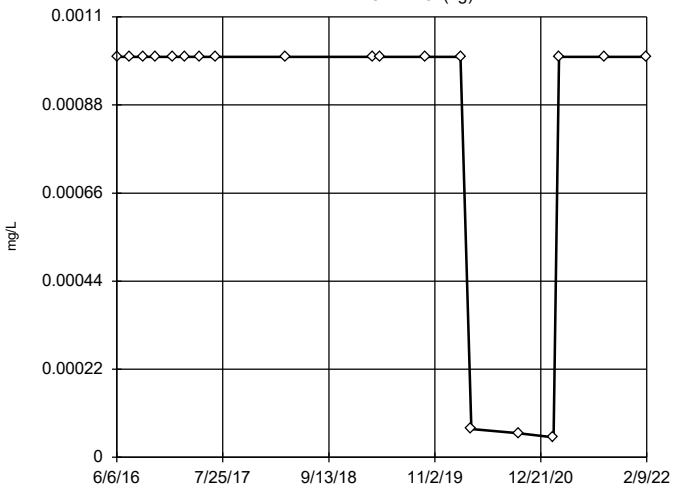
High cutoff = 0.04419, low cutoff = 0.0000064, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

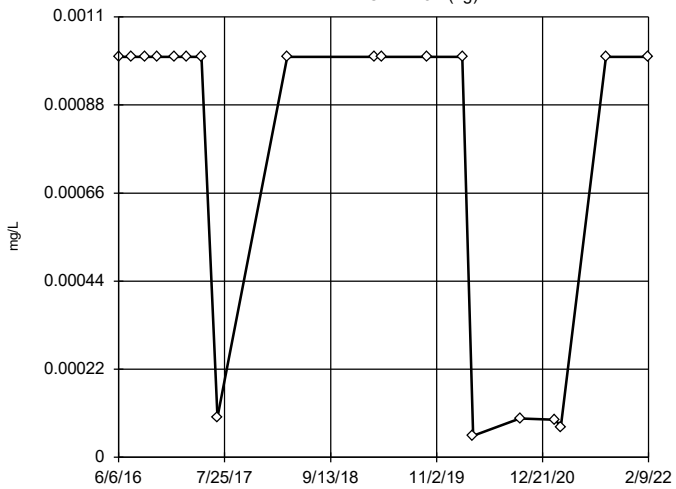
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

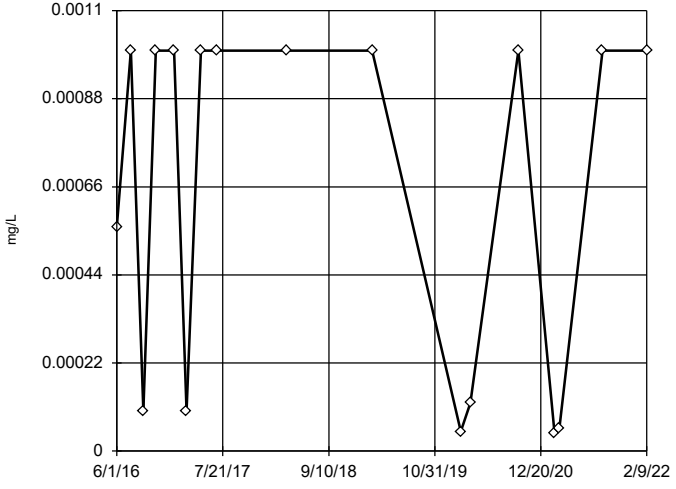
High cutoff = 1, low cutoff = 1.0e-7, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

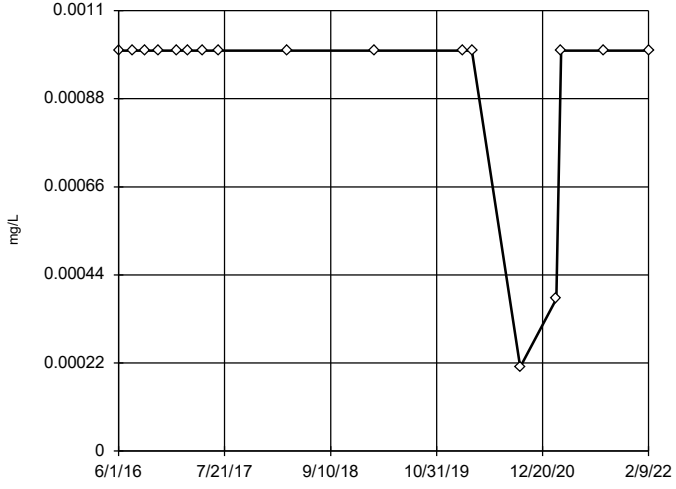
High cutoff = 1, low cutoff = 1.0e-7, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 17

No outliers found. Tukey's method selected by user.

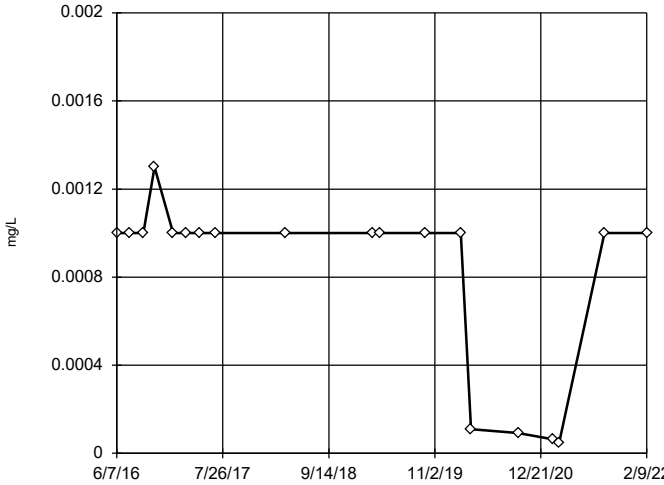
Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-20S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

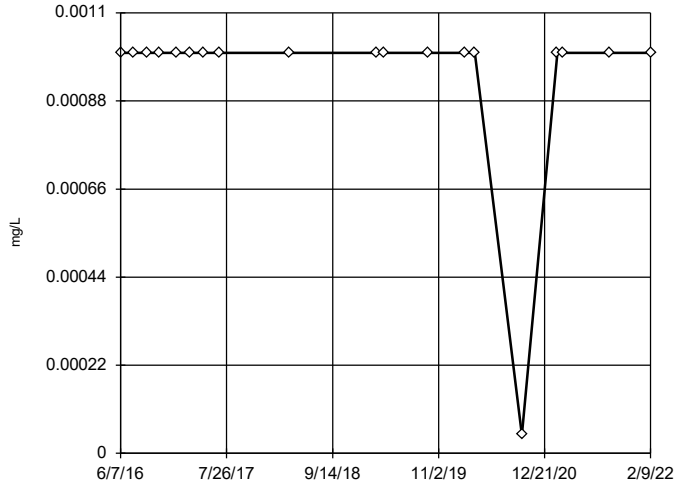
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

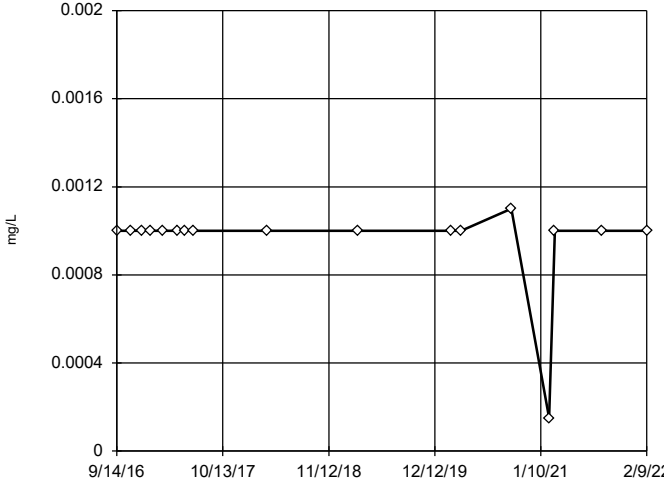
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

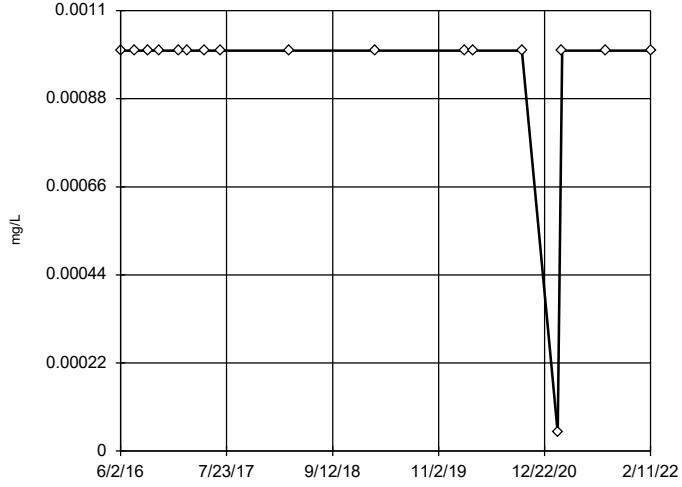
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

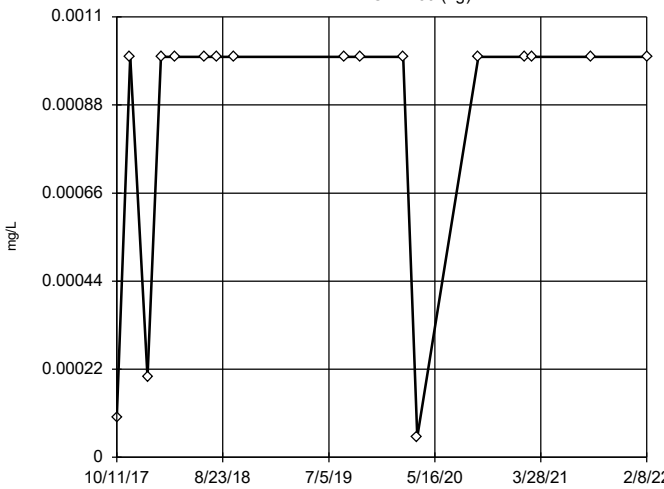
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

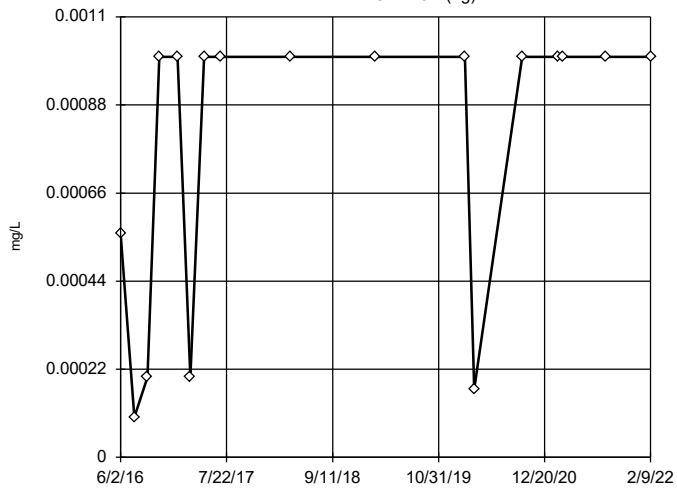
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

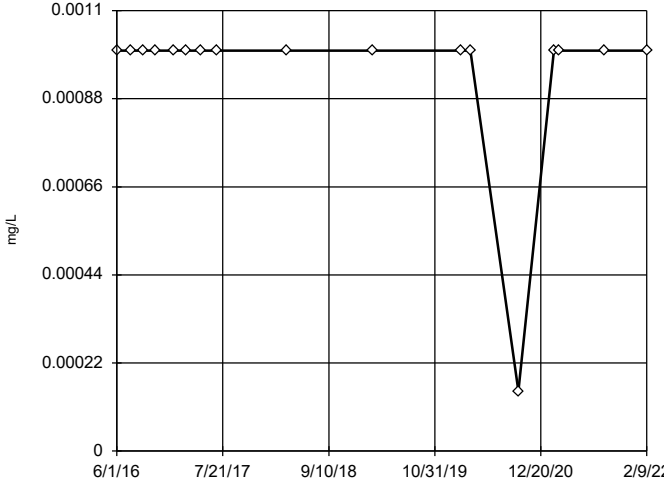
High cutoff = 0.02668, low cutoff = 0.00001254, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

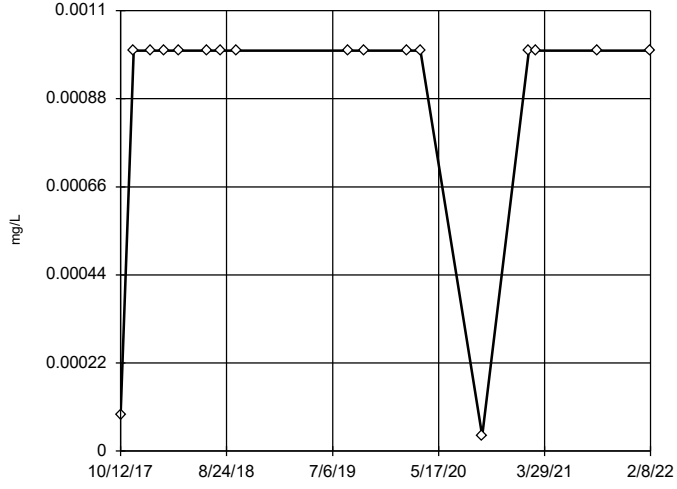
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

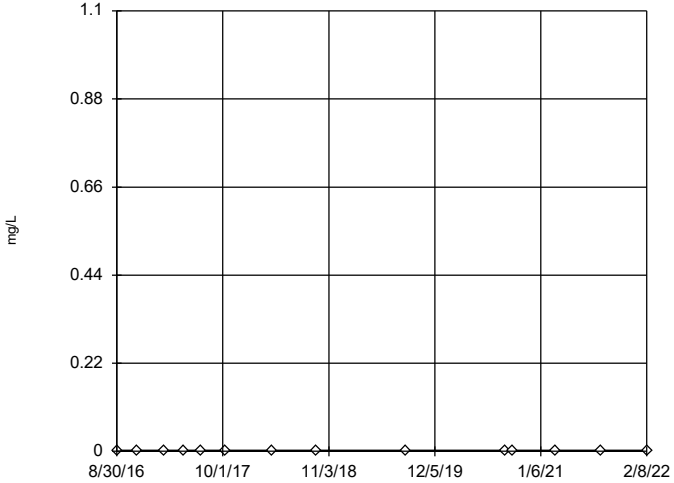
Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

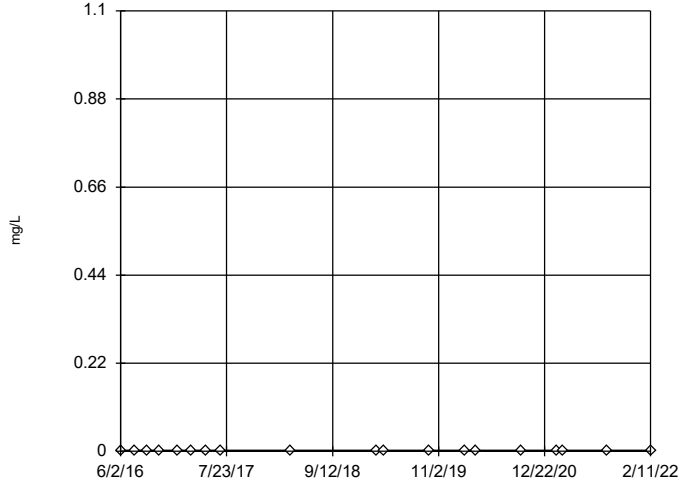
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

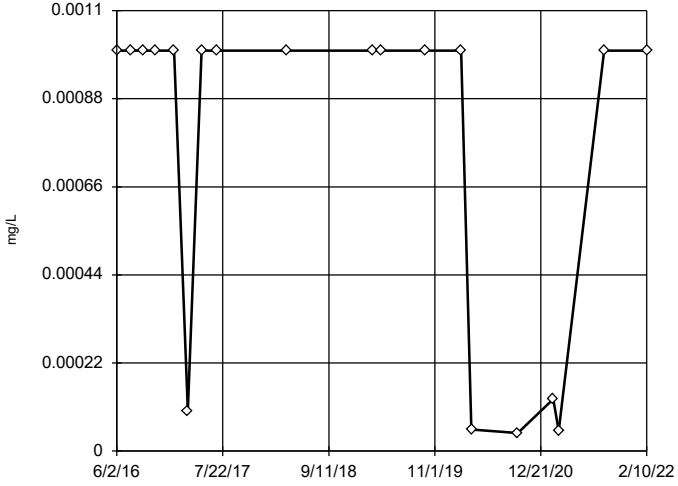
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4552, low cutoff = 2.9e-7, based on IQR multiplier of 3.

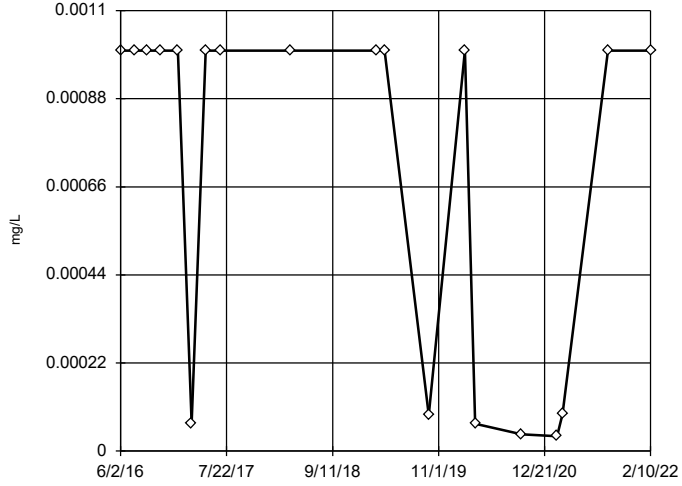
Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

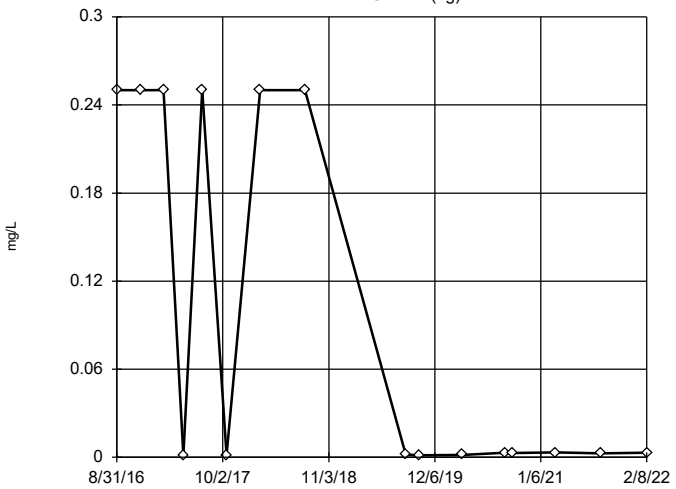
High cutoff = 1.372, low cutoff = 6.6e-8, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 16

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

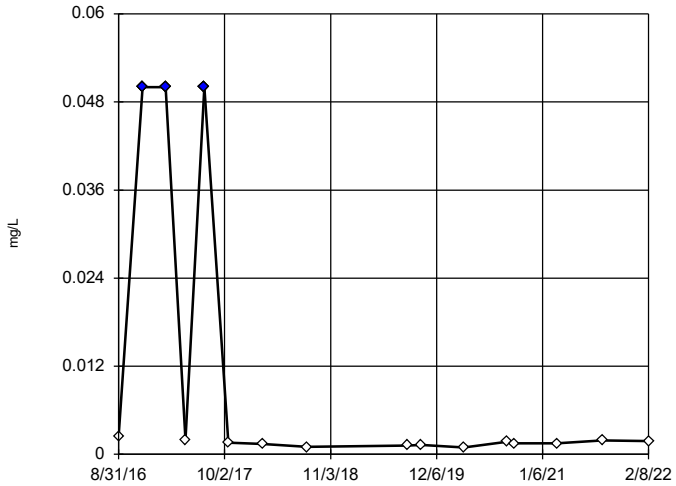
High cutoff = 672909, low cutoff = 6.7e-10, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 16

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

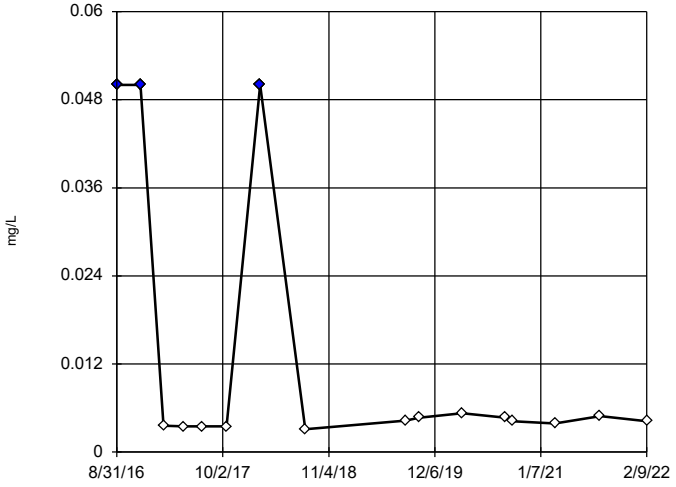
High cutoff = 0.009384, low cutoff = 0.000315, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 16

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

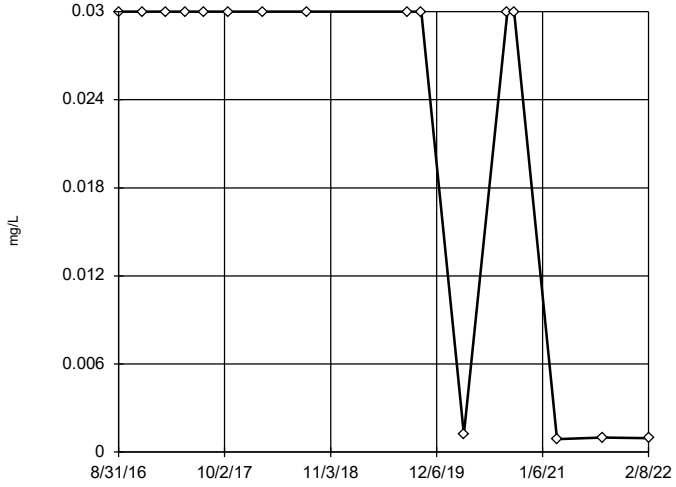
High cutoff = 0.01508, low cutoff = 0.0012, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 16

No outliers found.
Tukey's method selected by user.

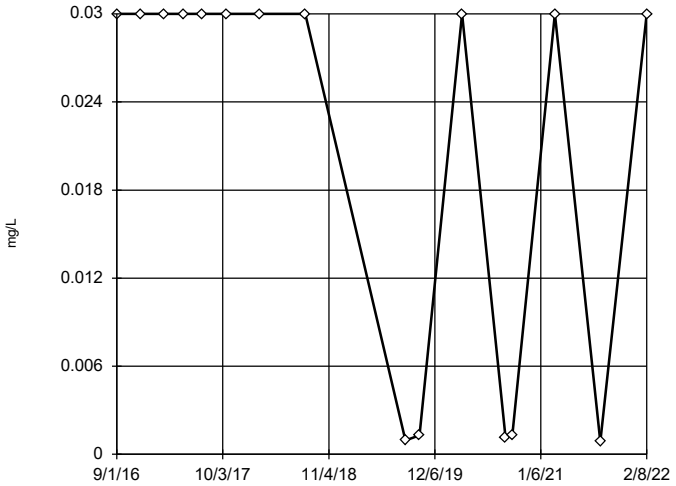
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3.75, low cutoff = 0.000048, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-4R



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 368.7, low cutoff = 1.1e-7, based on IQR multiplier of 3.

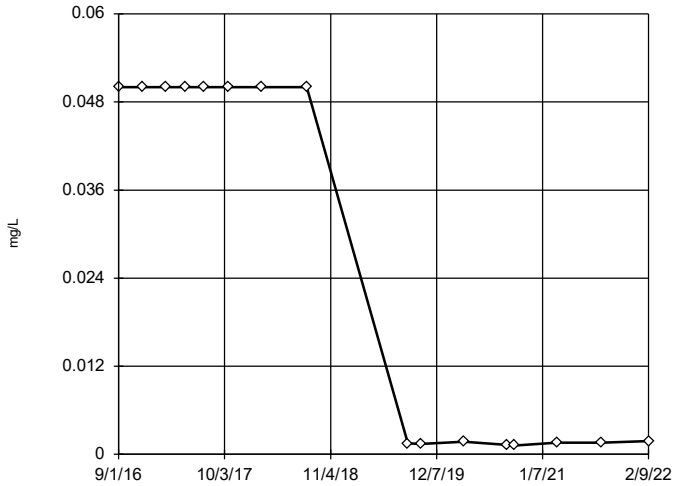
Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1681, low cutoff = 4.6e-8, based on IQR multiplier of 3.

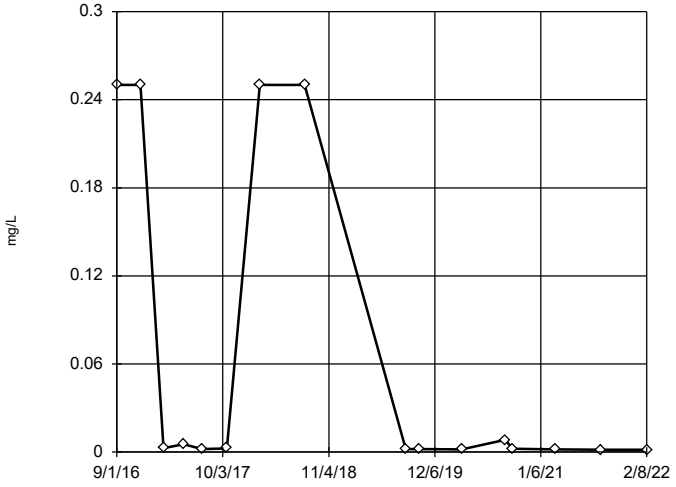
Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 630.4, low cutoff = 1.4e-7, based on IQR multiplier of 3.

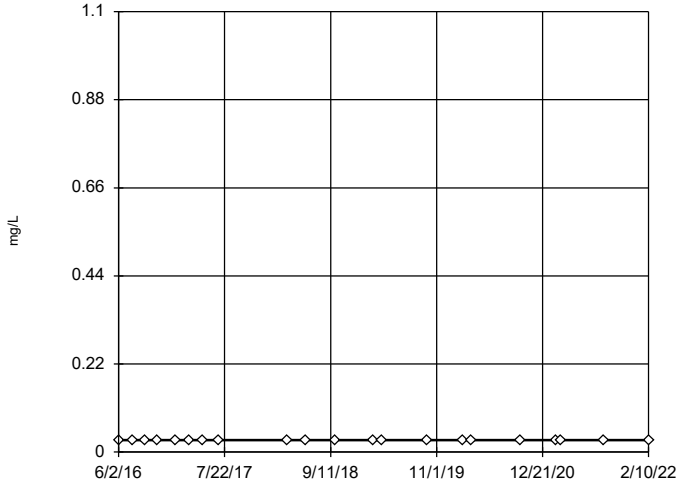
Constituent: Lithium Analysis Run 3/16/2022 2:41 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

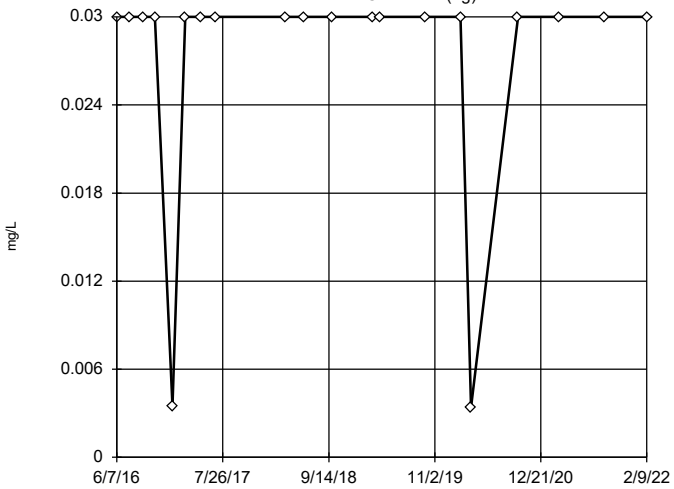
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

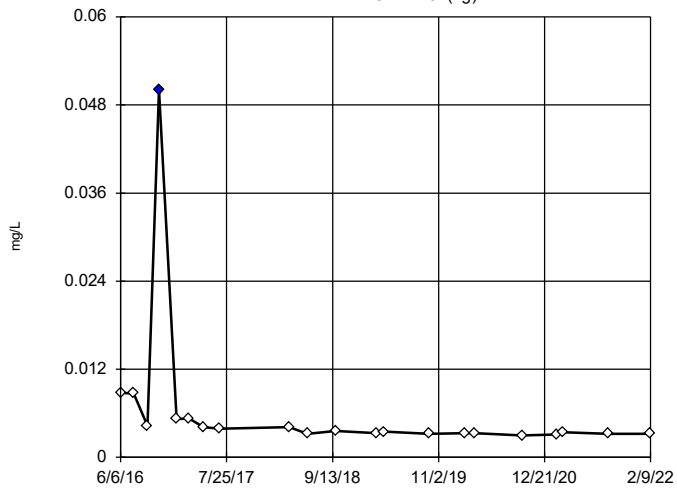
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

Outlier is drawn as solid. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

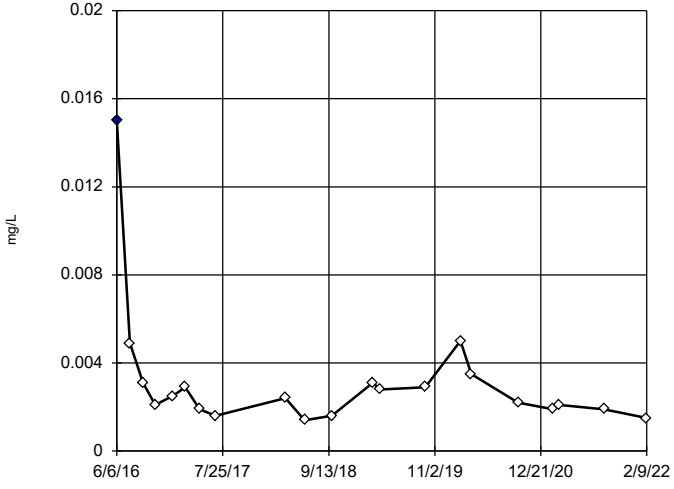
High cutoff = 0.01526, low cutoff = 0.0009917, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

Outlier is drawn as solid. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

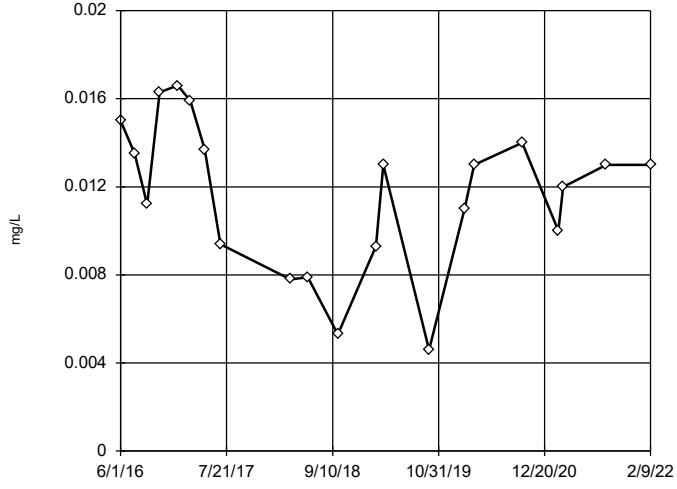
High cutoff = 0.01346, low cutoff = 0.0004375, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 21

No outliers found. Tukey's method selected by user.

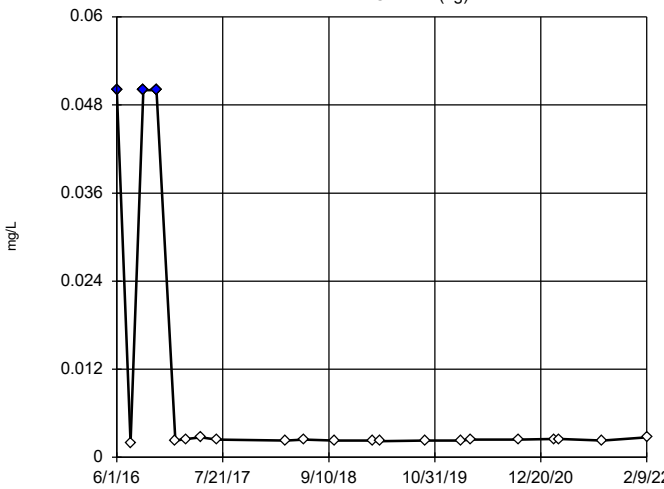
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.02247, low cutoff = -0.01503, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1I (bg)



n = 21

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

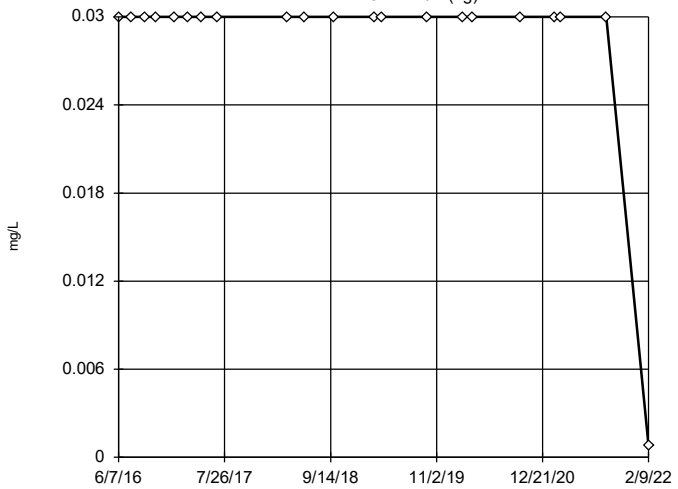
High cutoff = 0.003745, low cutoff = 0.001596, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found.
Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

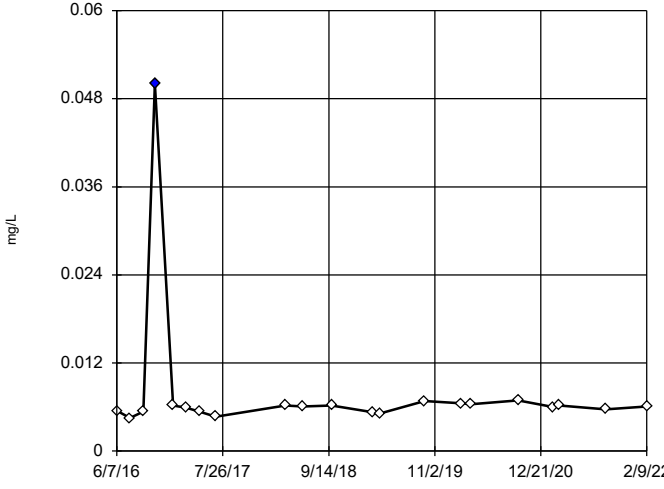
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

Outlier is drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

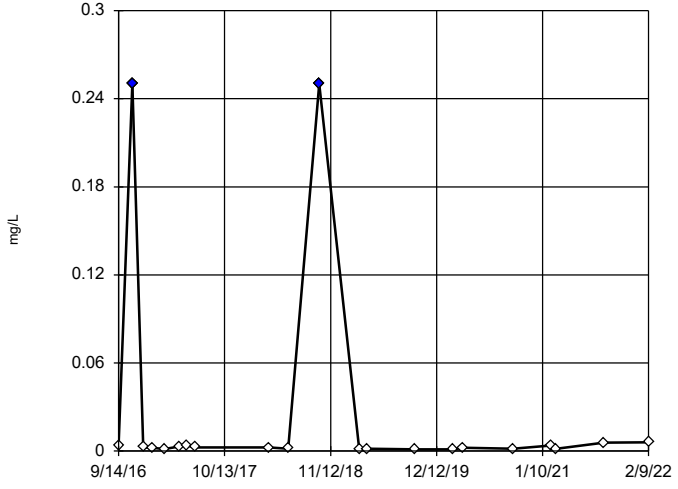
High cutoff = 0.009999, low cutoff = 0.003402, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 21

Outliers are drawn as solid.
Tukey's method selected by user.

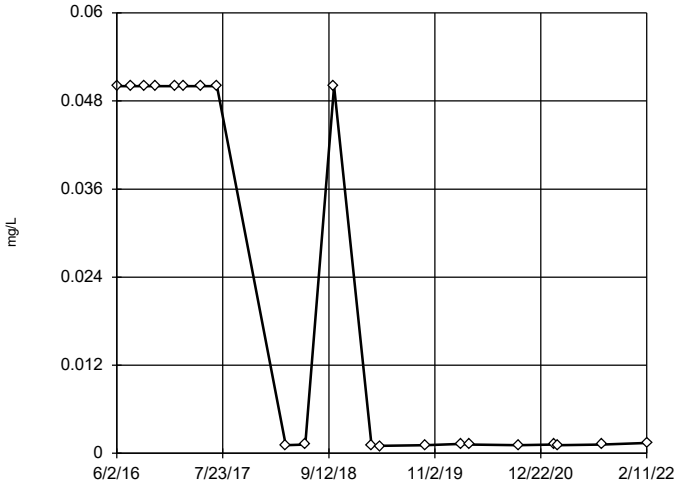
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.05941, low cutoff = 0.0001064, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-30I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 4696, low cutoff = 1.2e-8, based on IQR multiplier of 3.

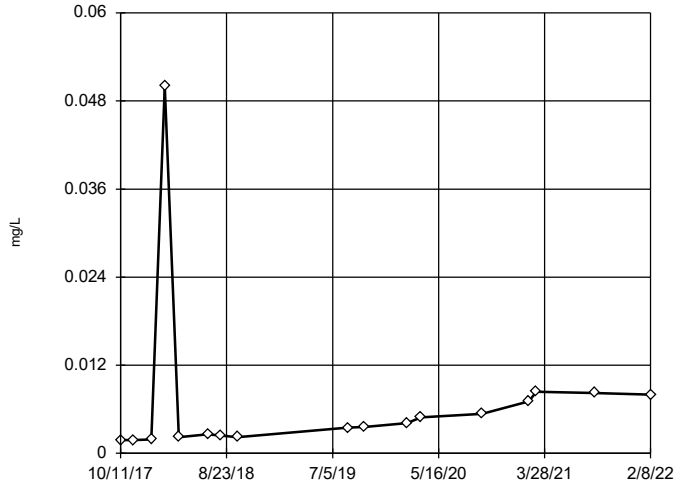
Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.303, low cutoff = 0.00005472, based on IQR multiplier of 3.

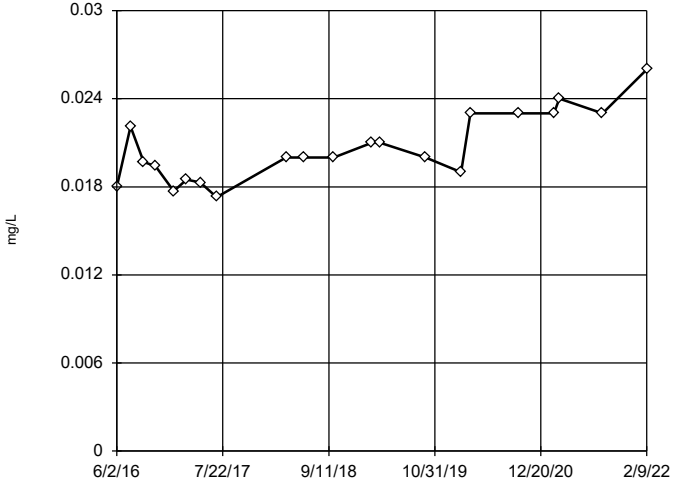
Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.04246, low cutoff = 0.01015, based on IQR multiplier of 3.

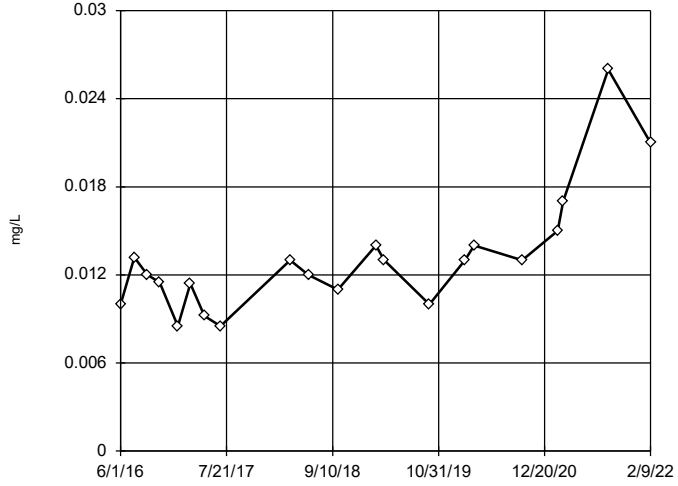
Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

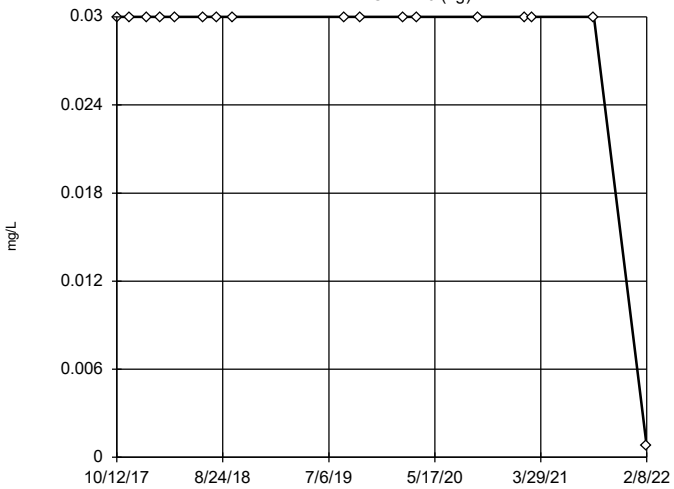
High cutoff = 0.0333, low cutoff = 0.00441, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

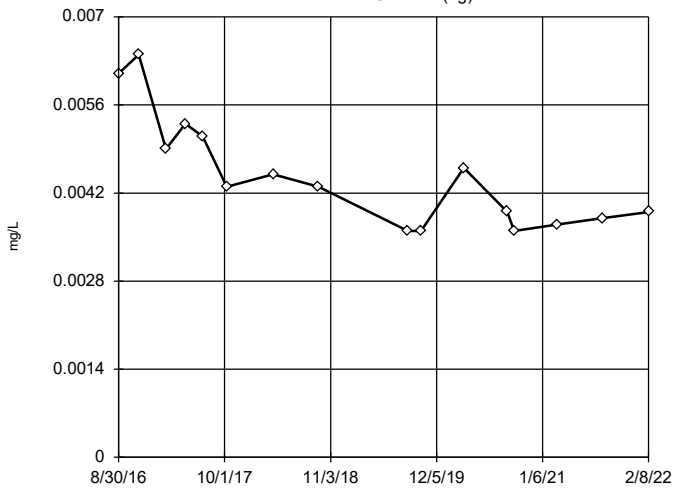
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

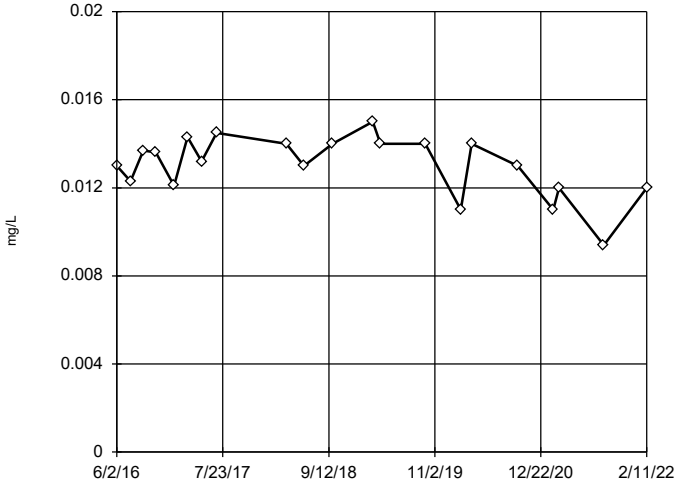
High cutoff = 0.01185, low cutoff = 0.001582, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

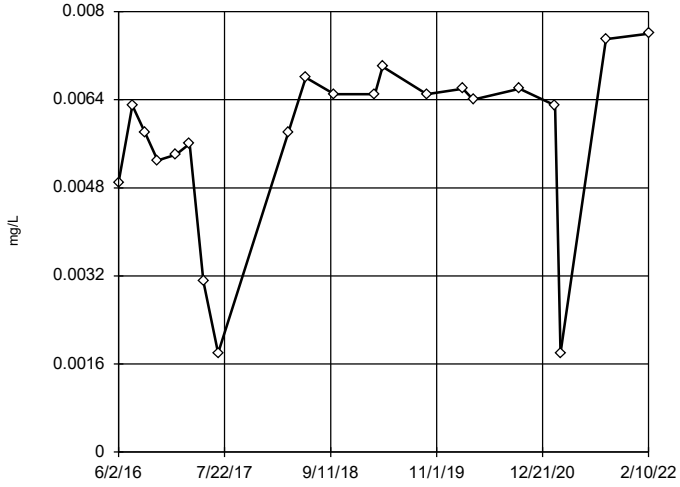
High cutoff = 0.01693, low cutoff = -0.0143, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

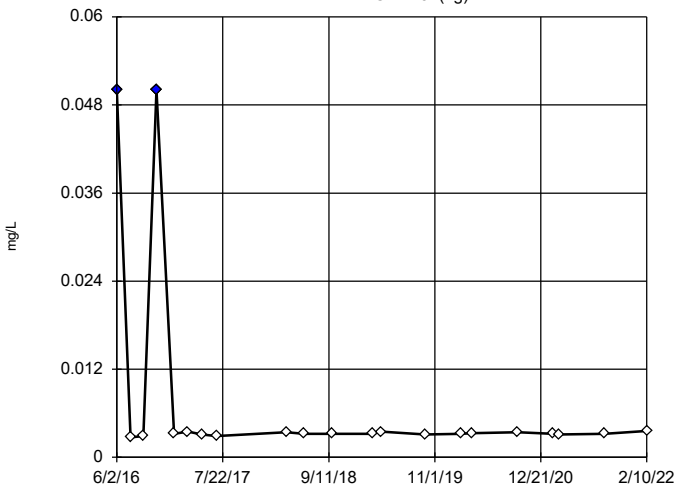
Data were x^4 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.008463, low cutoff = -0.007009, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

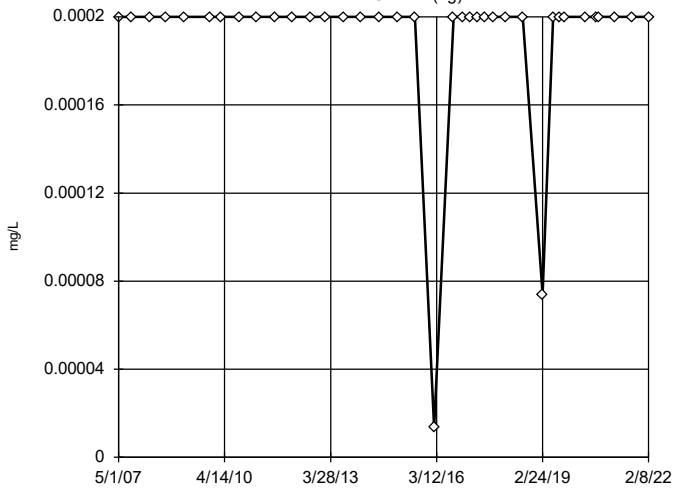
High cutoff = 0.004753, low cutoff = 0.00225, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found.
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

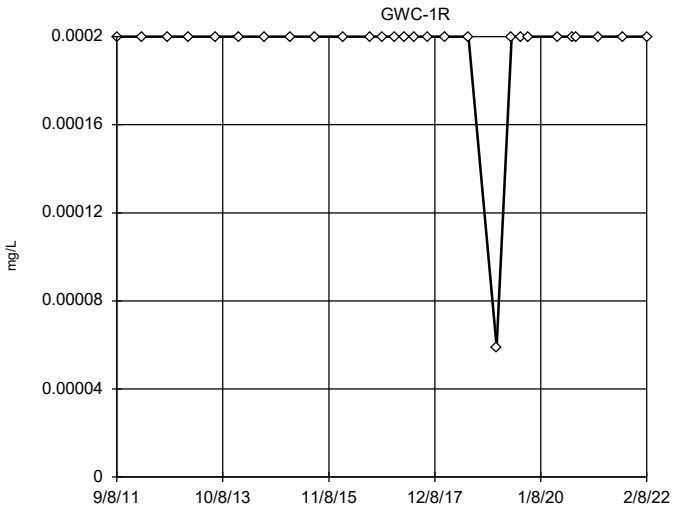
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found.
Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

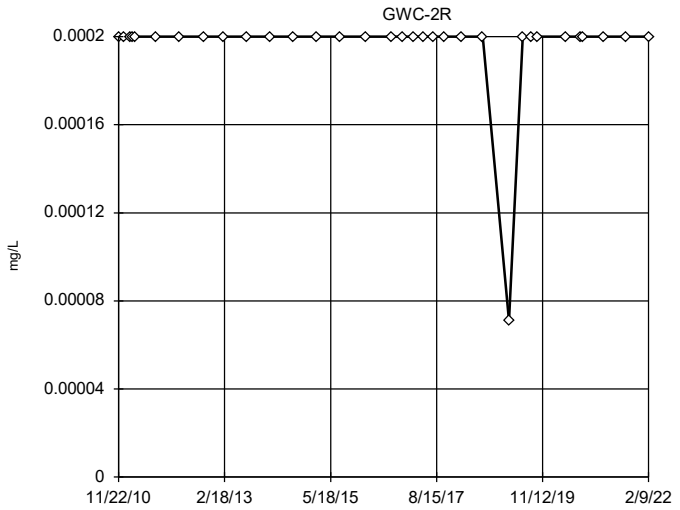
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found.
Tukey's method selected by user.

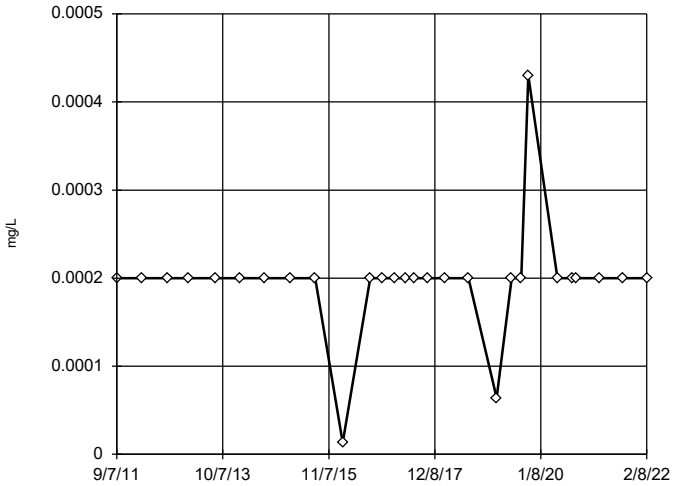
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

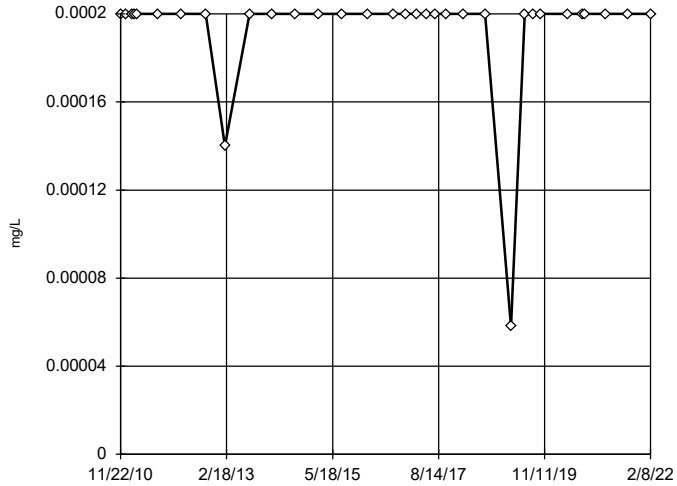
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

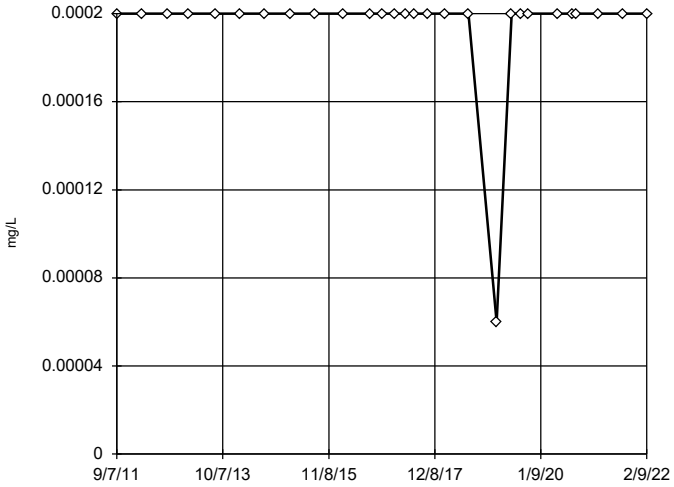
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

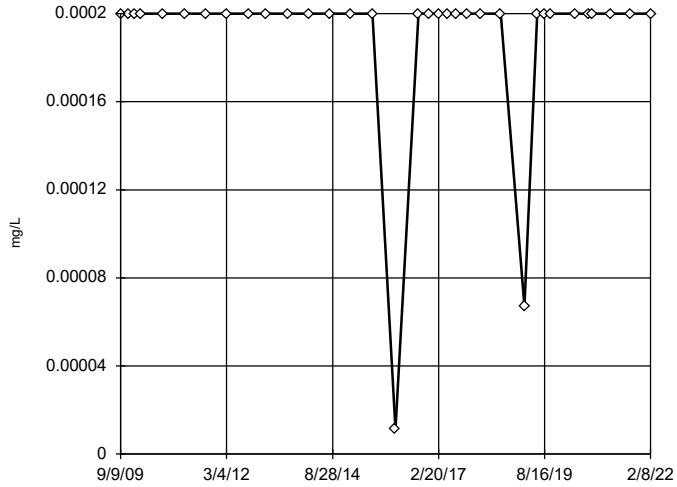
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

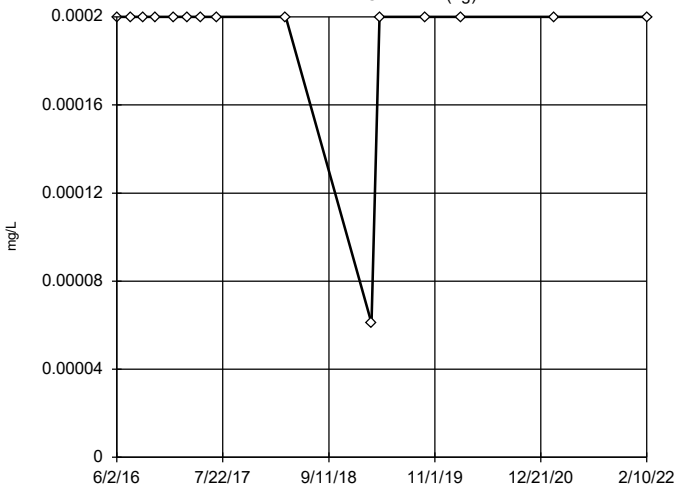
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-14S (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

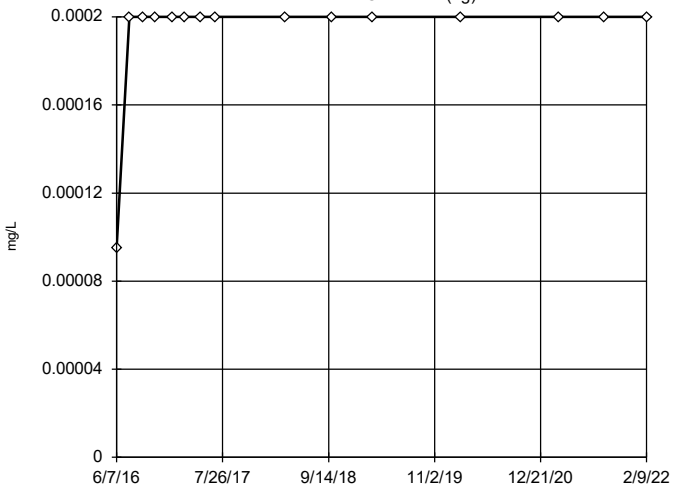
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

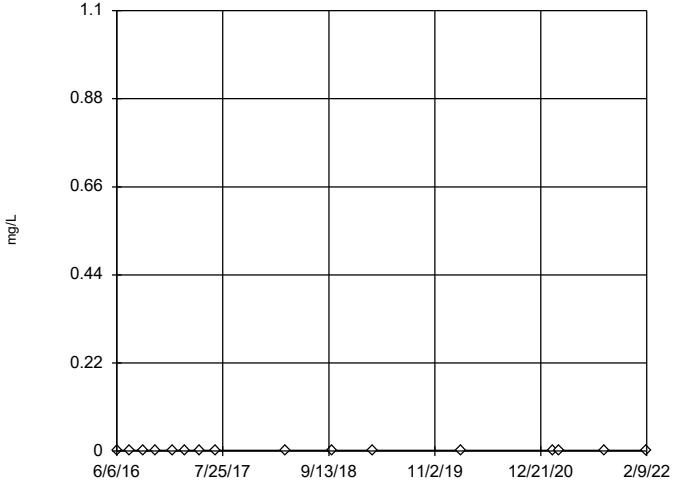
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

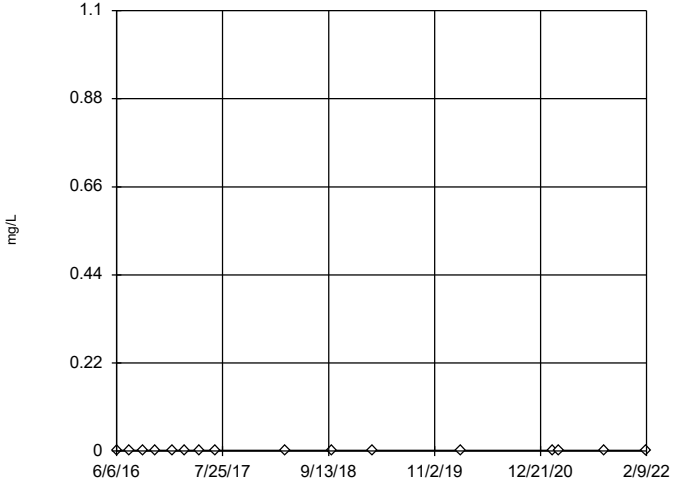
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

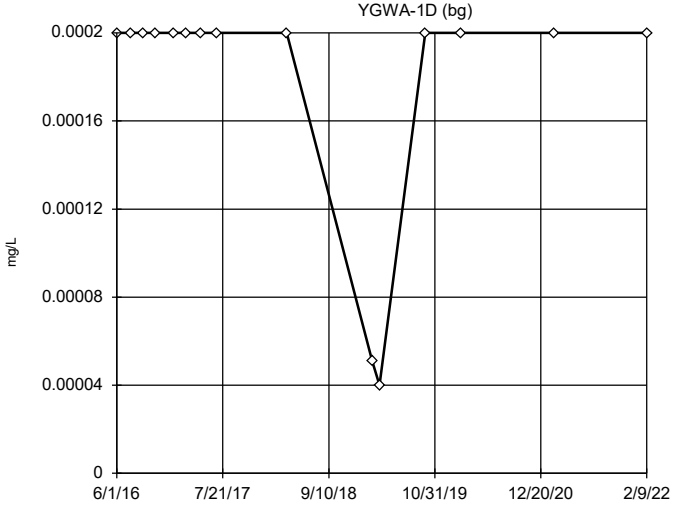
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1D (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

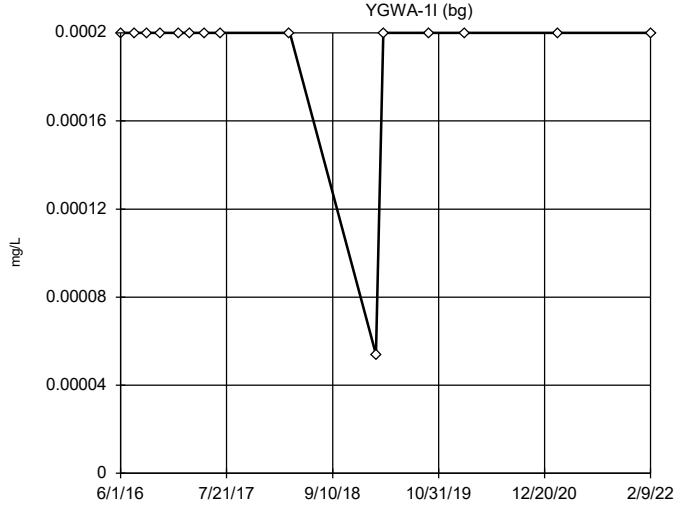
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

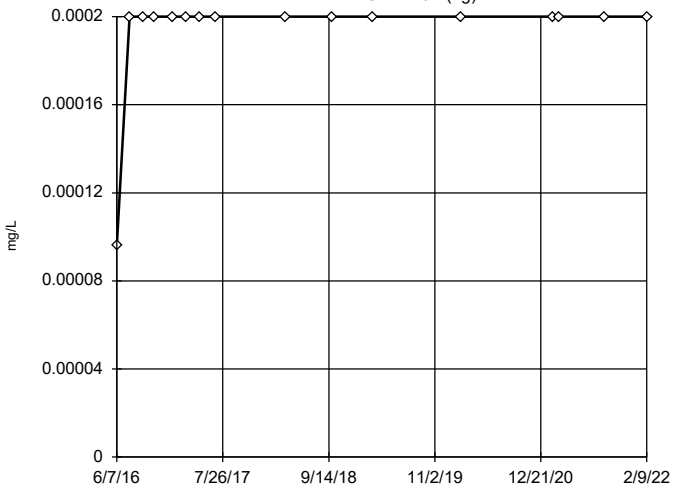
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 16

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

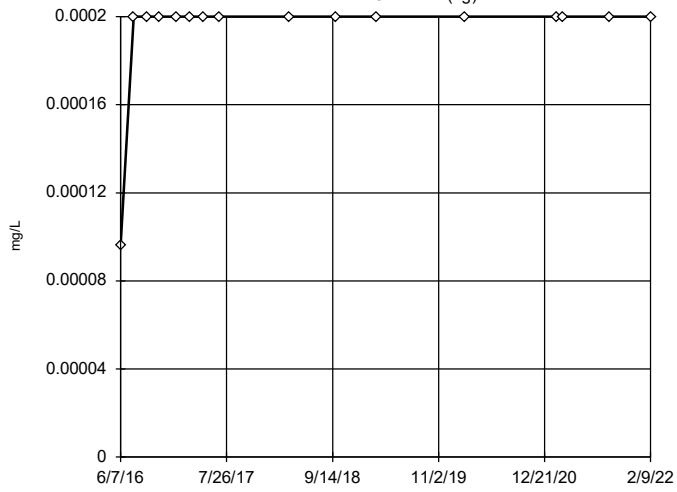
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 16

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

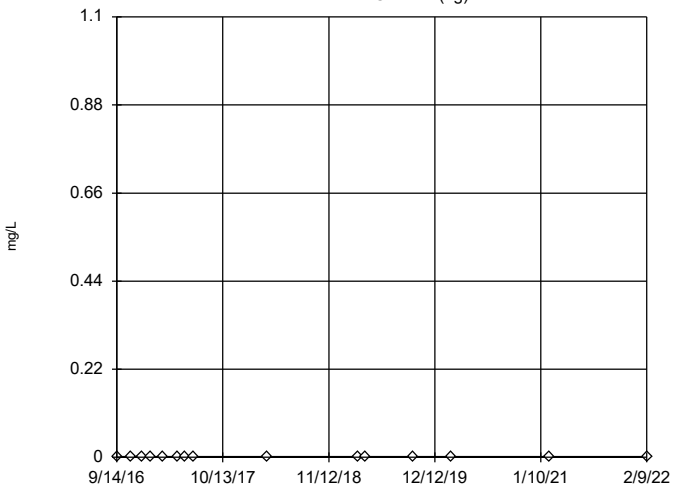
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-2I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

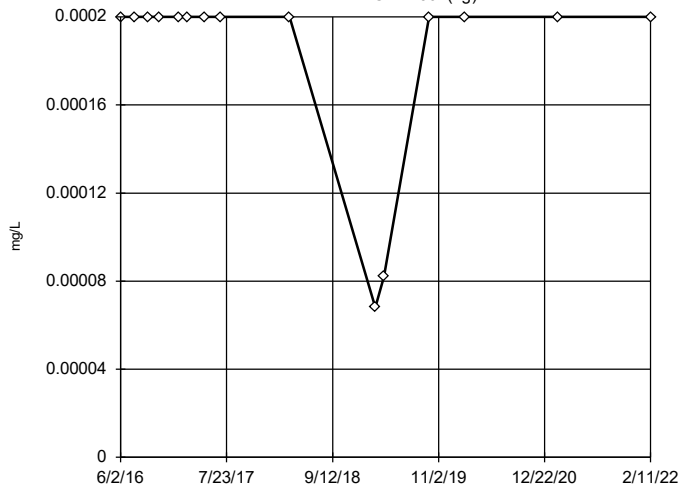
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

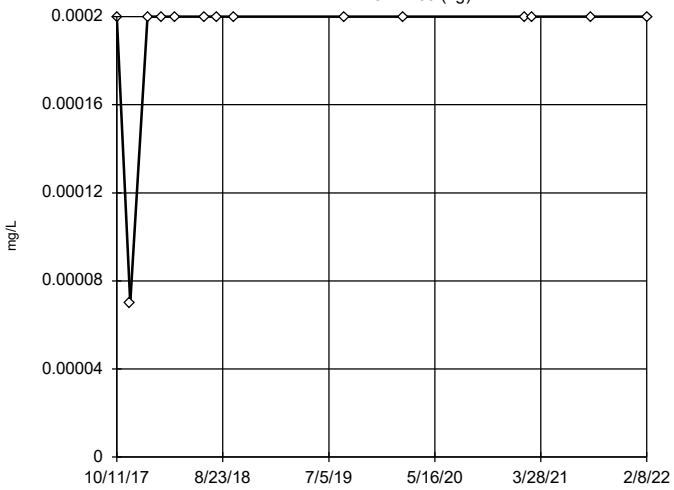
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

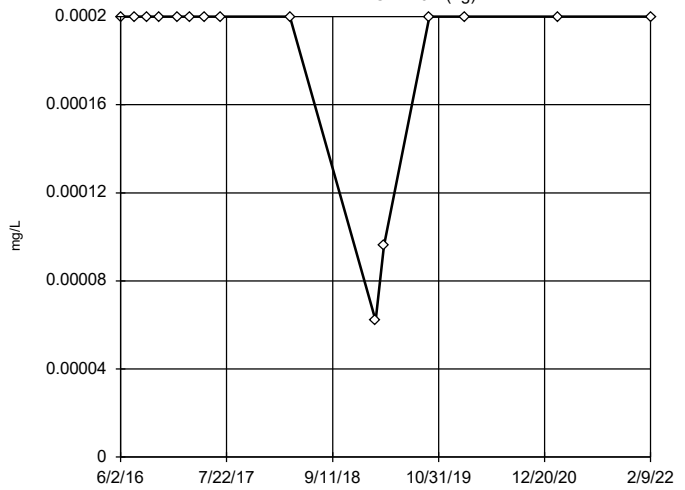
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

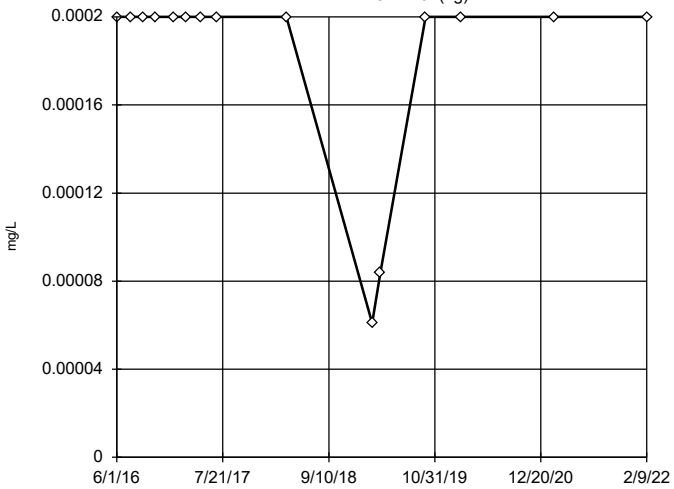
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

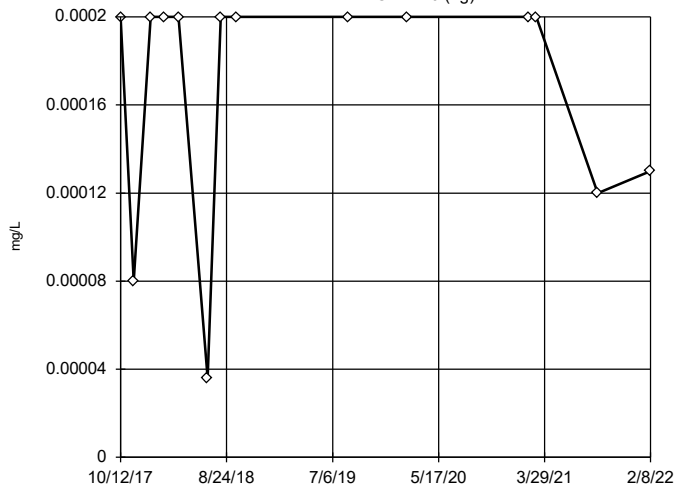
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.000425, low cutoff = -0.0001, based on IQR multiplier of 3.

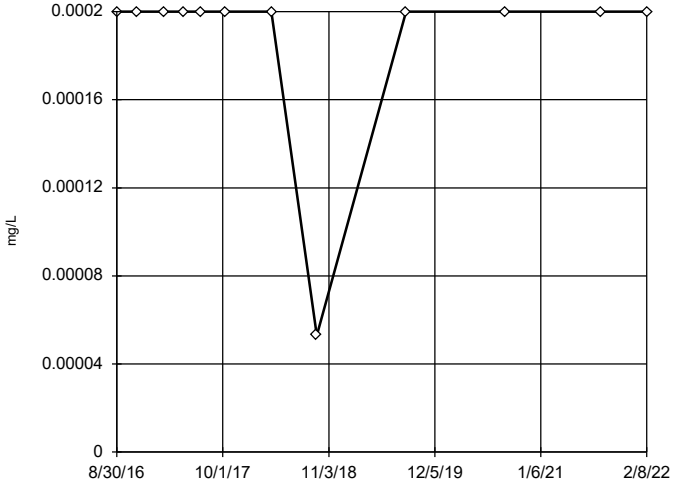
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 12

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

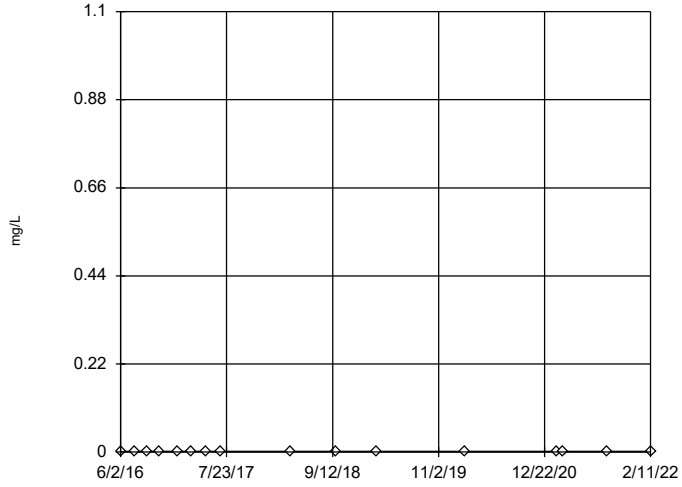
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

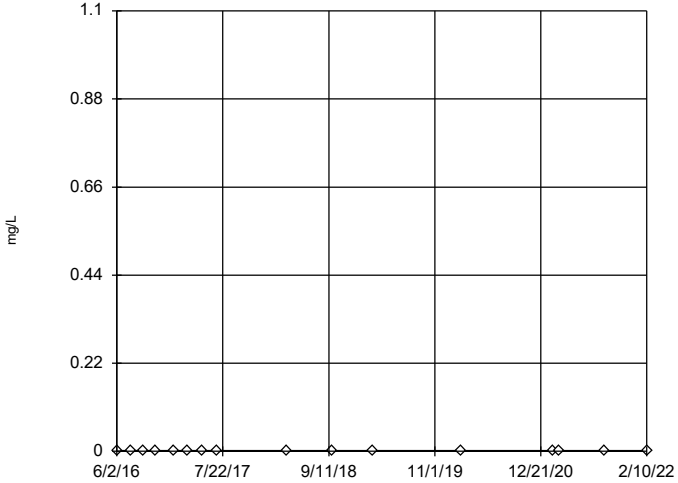
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5D (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

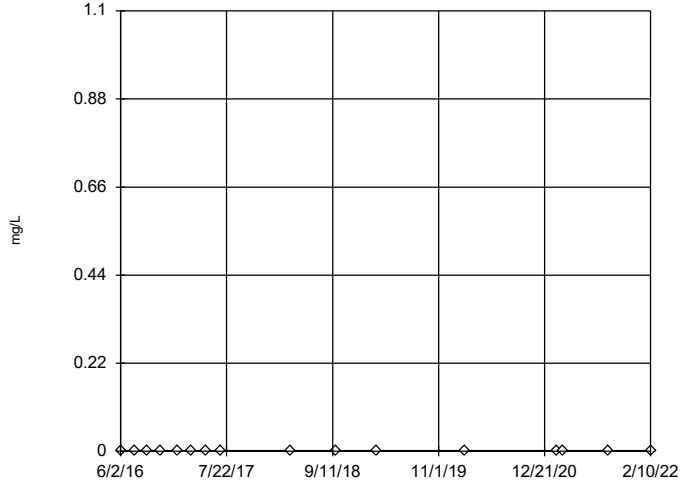
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

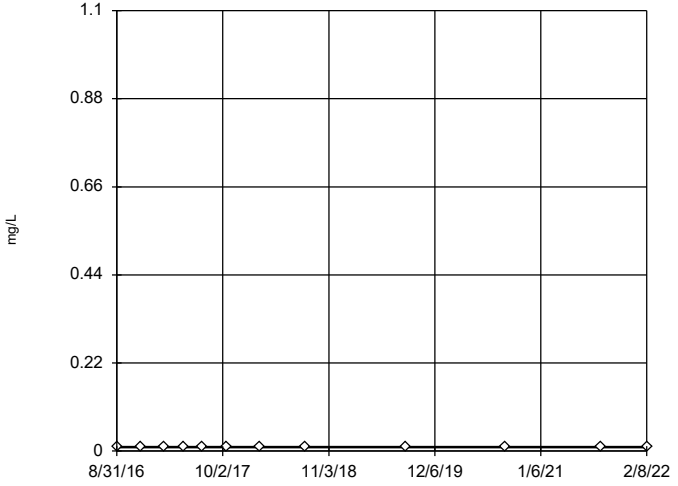
Constituent: Mercury Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

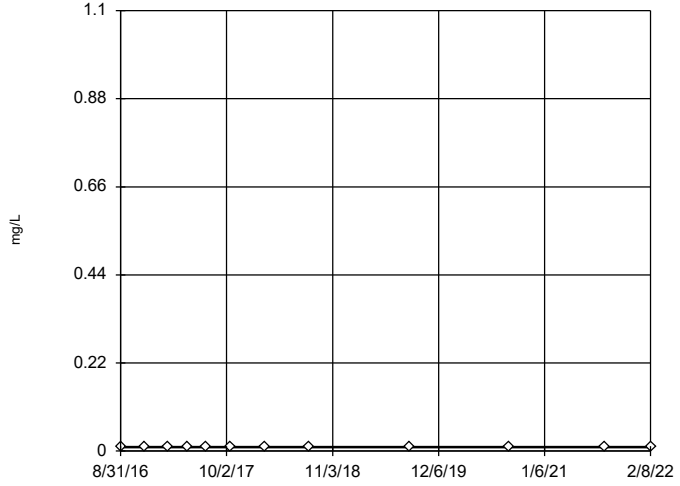
Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

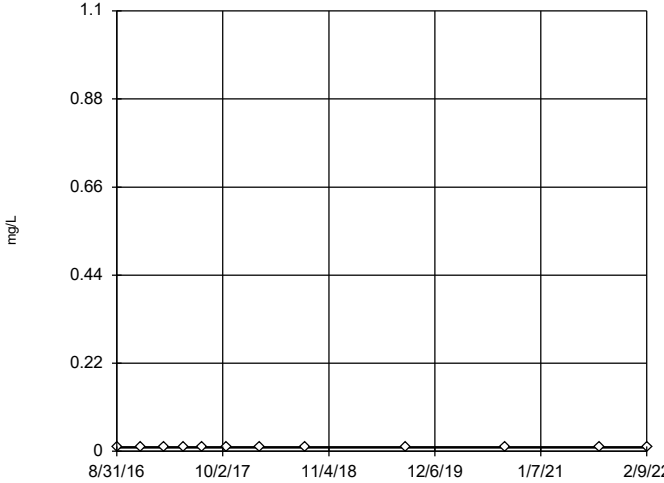
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

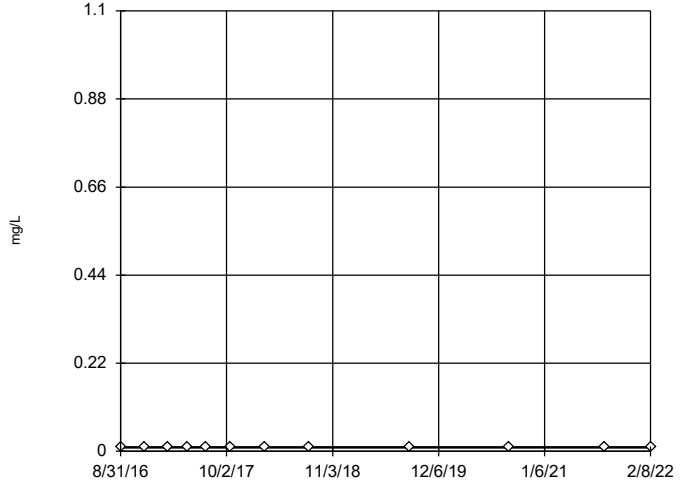
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

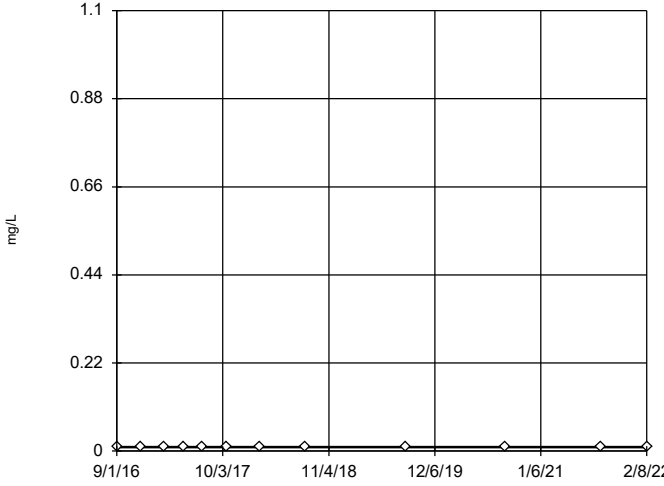
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

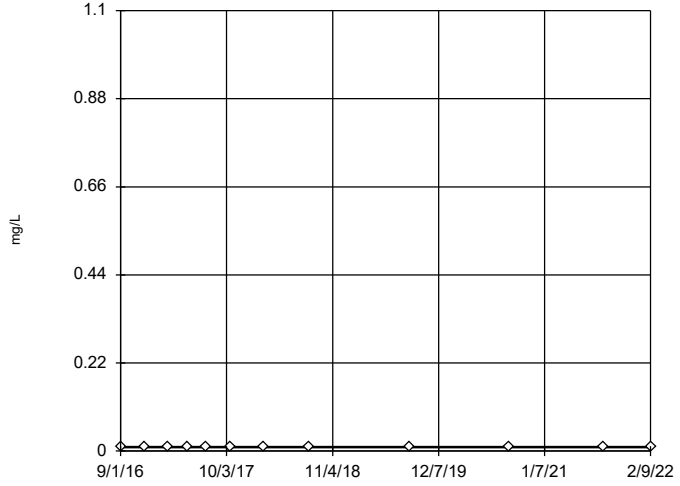
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 12

No outliers found. Tukey's method selected by user.

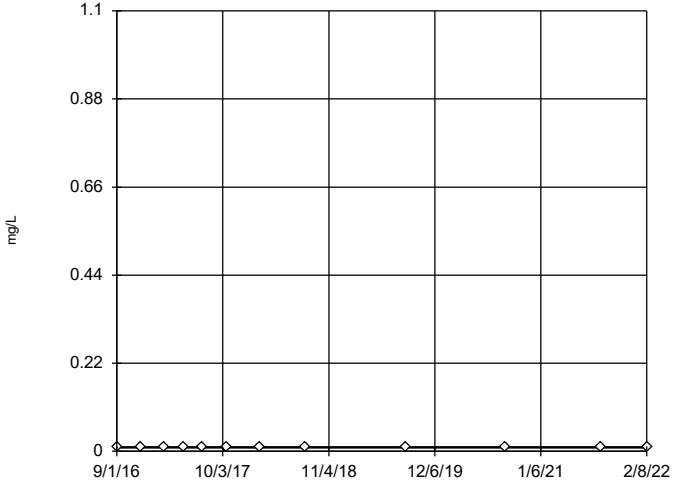
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 12

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

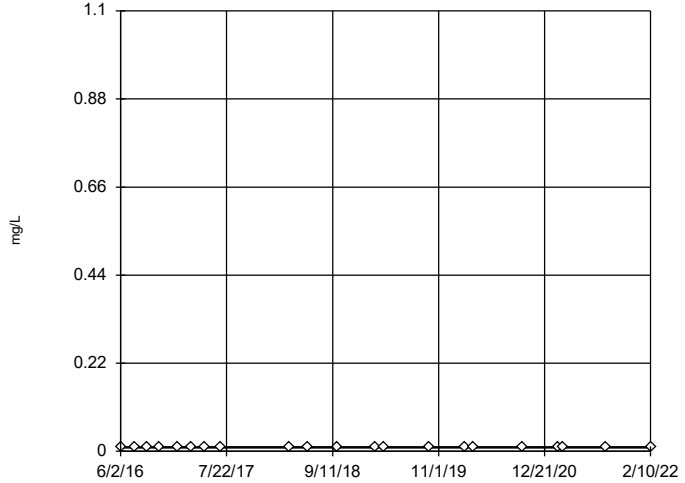
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

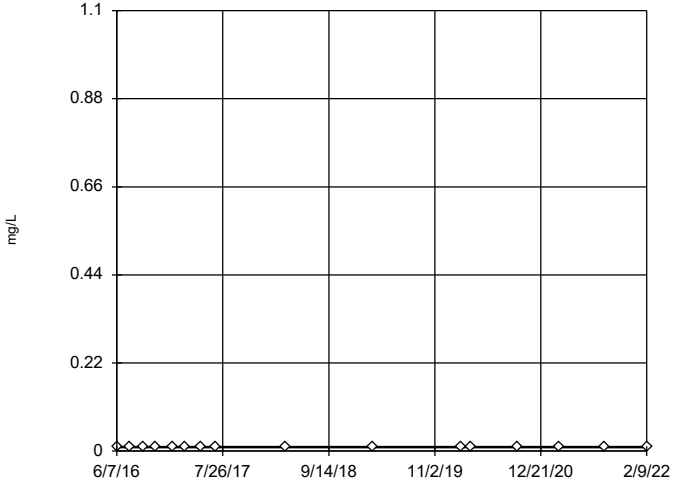
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

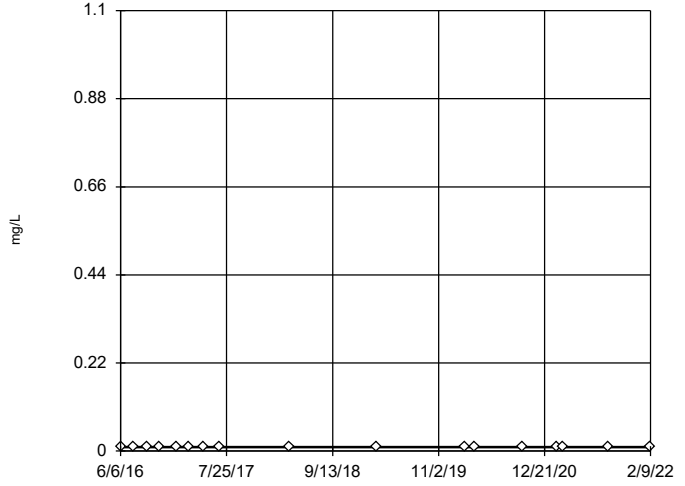
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 17

No outliers found. Tukey's method selected by user.

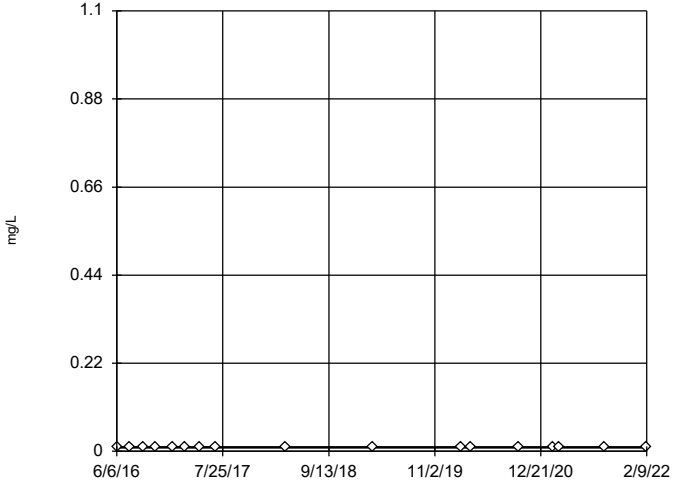
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

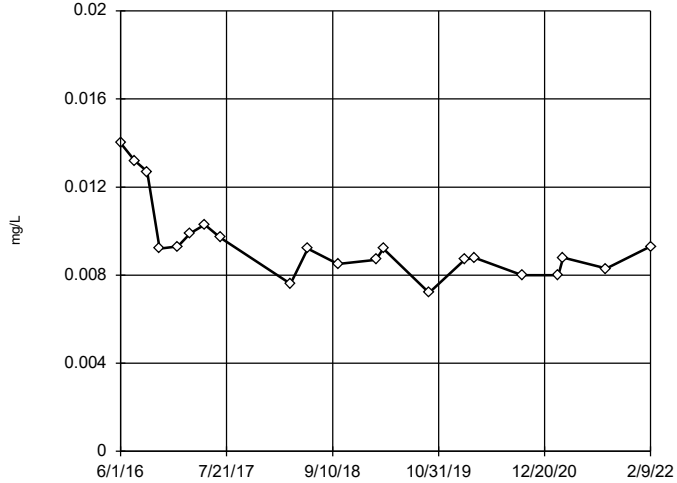
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

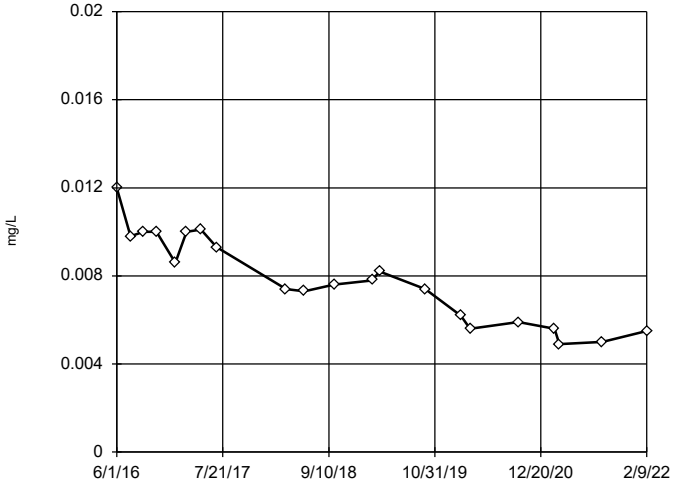
High cutoff = 0.01556, low cutoff = 0.005289, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

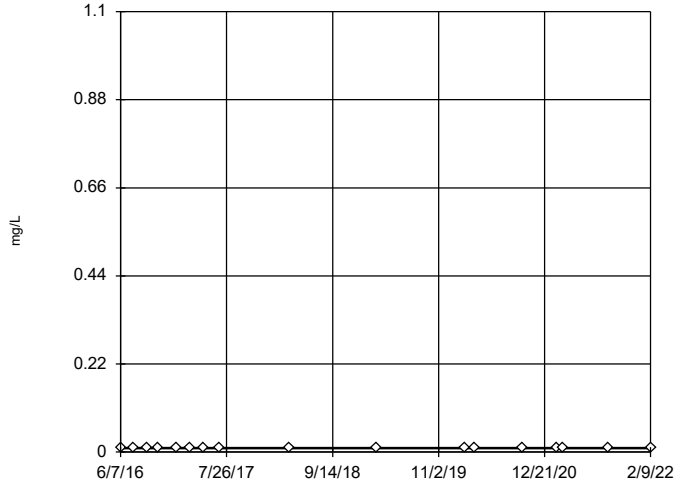
High cutoff = 0.02908, low cutoff = 0.00002301, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 17

No outliers found. Tukey's method selected by user.

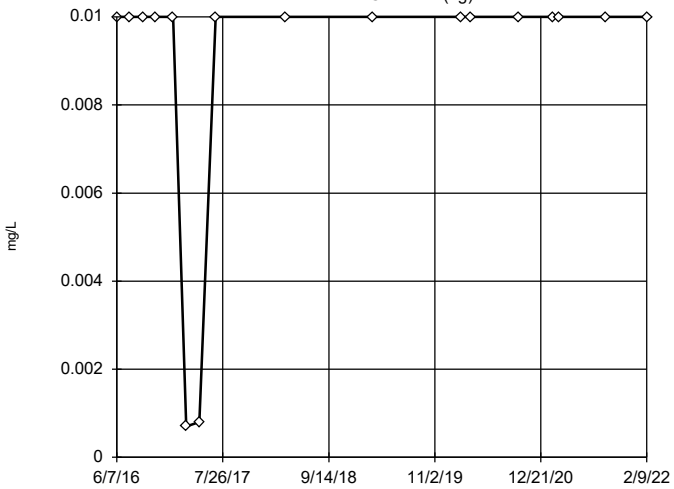
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-21I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

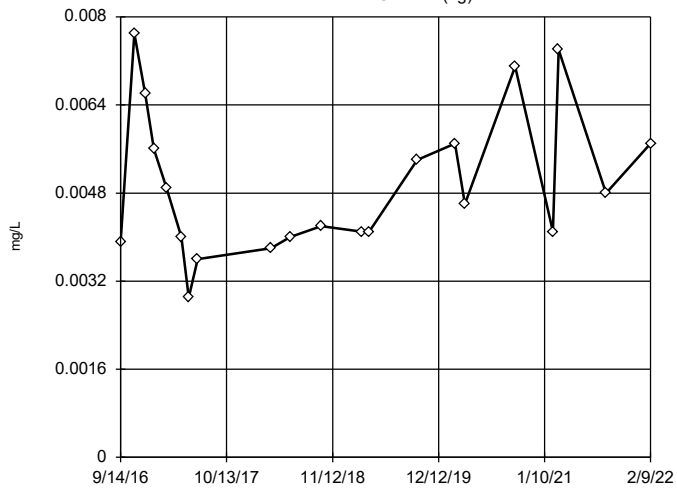
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:42 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

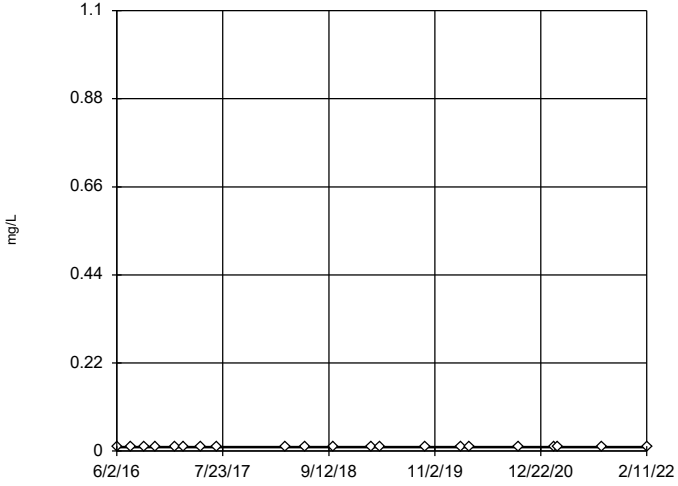
High cutoff = 0.01649, low cutoff = 0.001382, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

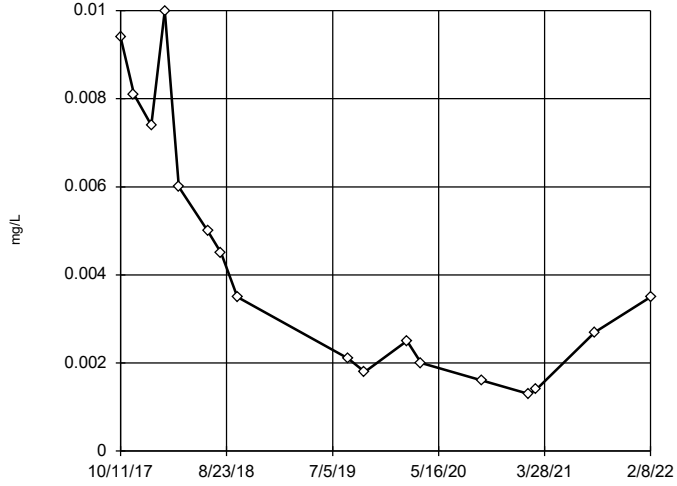
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

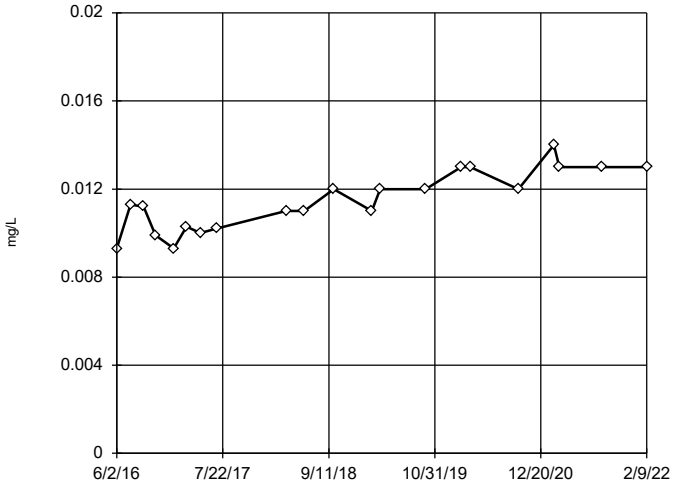
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2886, low cutoff = 0.00004381, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

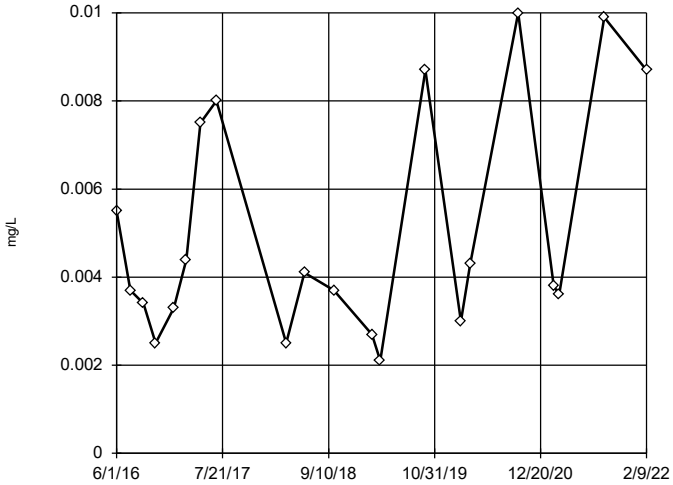
High cutoff = 0.02125, low cutoff = 0.002, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

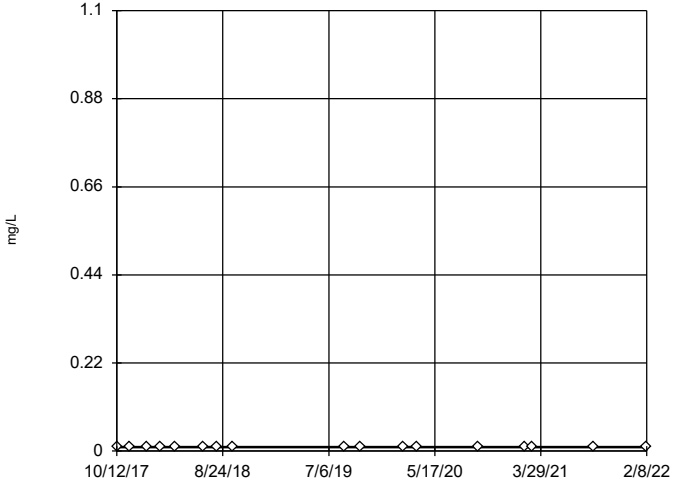
High cutoff = 0.1156, low cutoff = 0.0002109, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

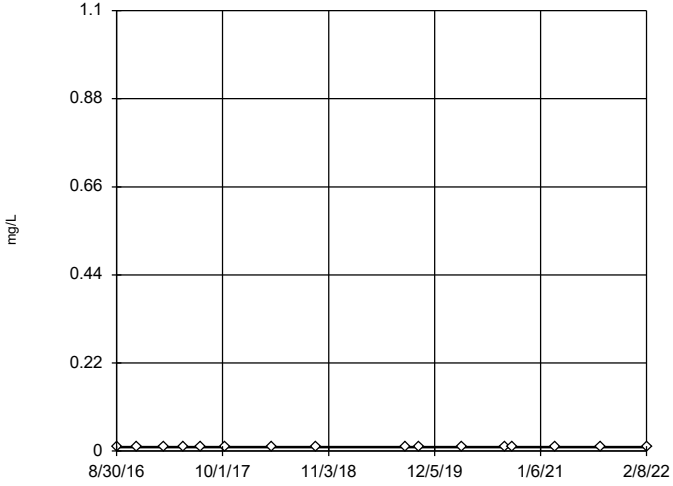
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

No outliers found. Tukey's method selected by user.

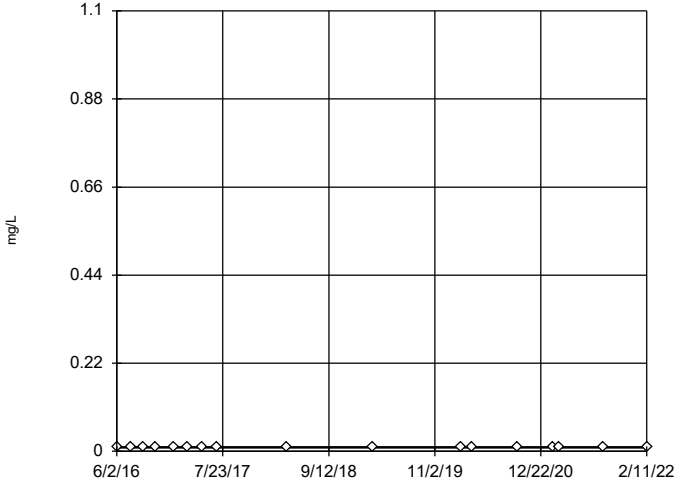
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-4I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

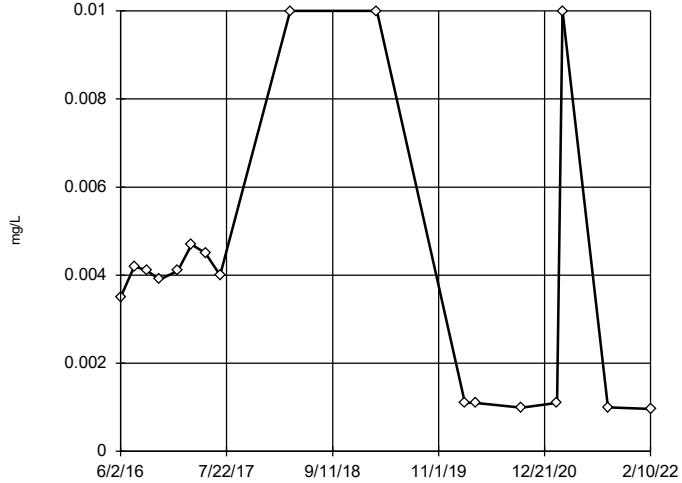
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

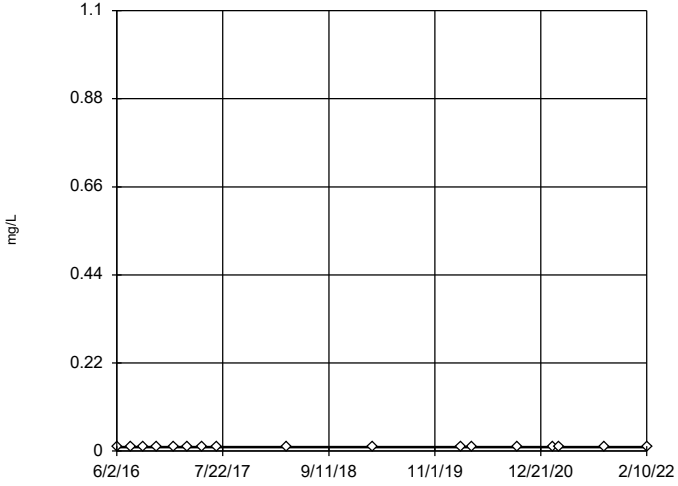
High cutoff = 0.04494, low cutoff = -0.0006359, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

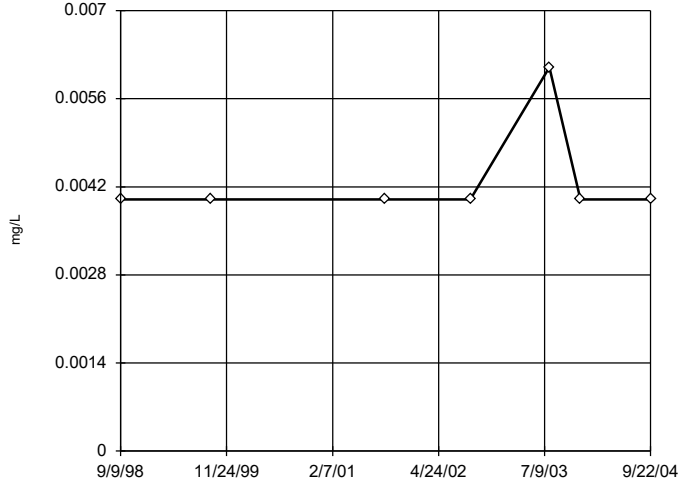
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

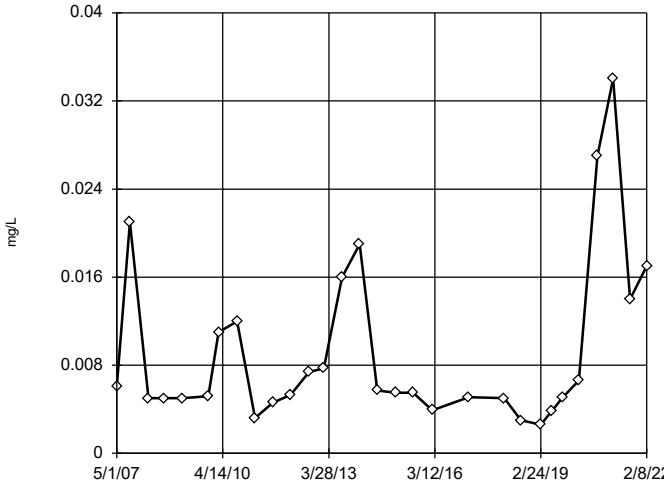
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 30

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2258, low cutoff = 0.000287, based on IQR multiplier of 3.

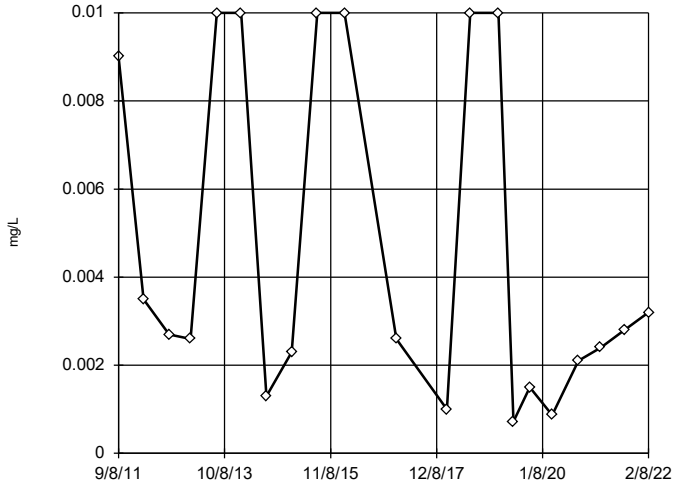
Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 1.789, low cutoff = 0.000009923, based on IQR multiplier of 3.

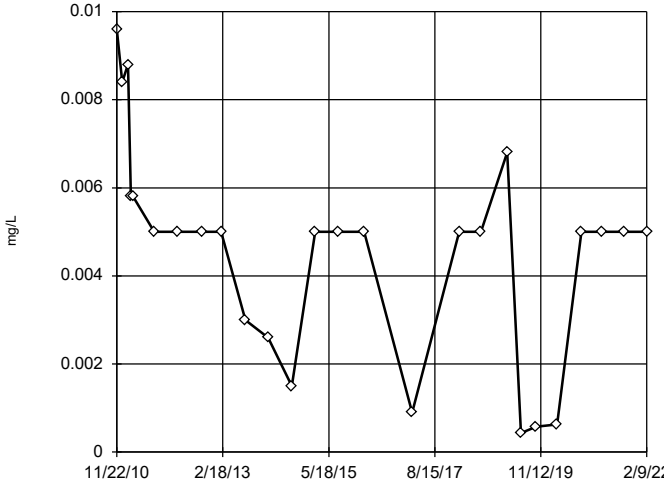
Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 26

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.0132, low cutoff = -0.005, based on IQR multiplier of 3.

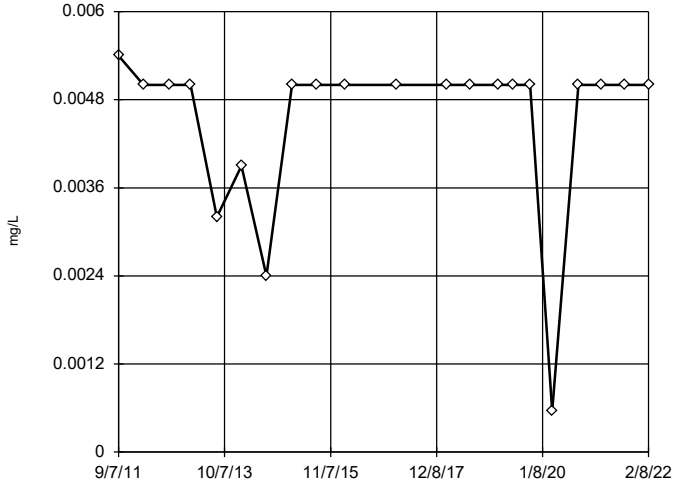
Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 21

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

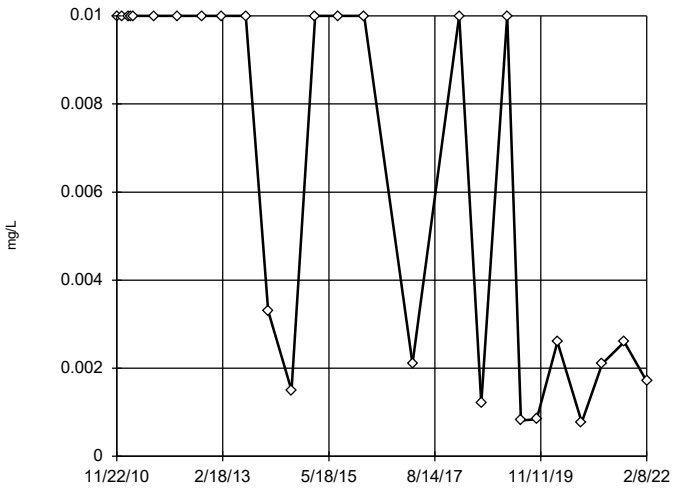
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-4R



n = 26

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

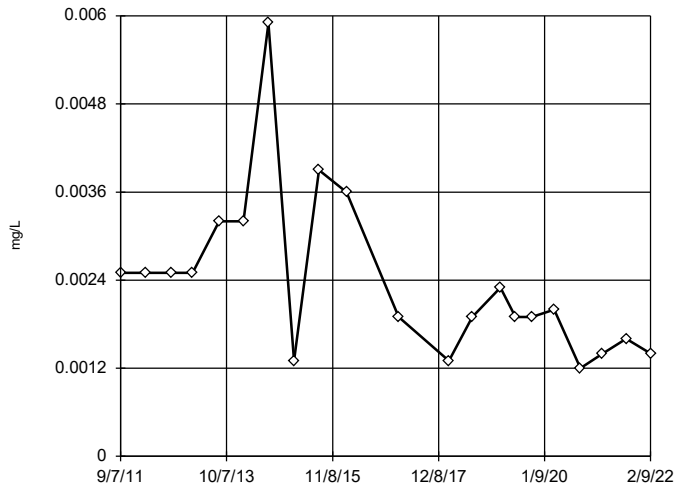
High cutoff = 1.483, low cutoff = 0.00001274, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 21

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

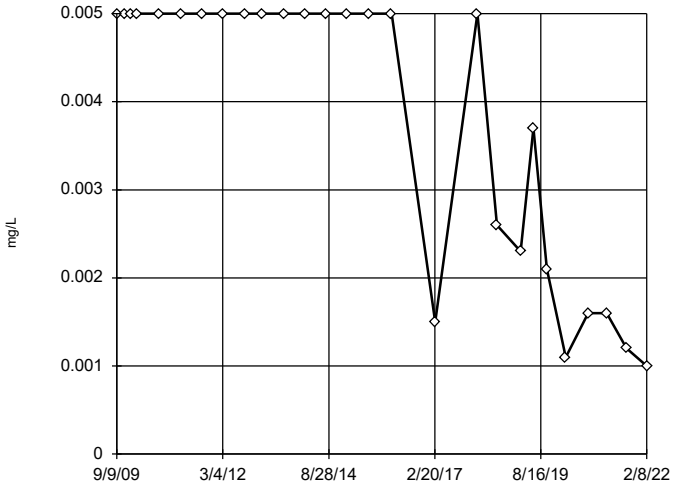
High cutoff = 0.01909, low cutoff = 0.0002217, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 27

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

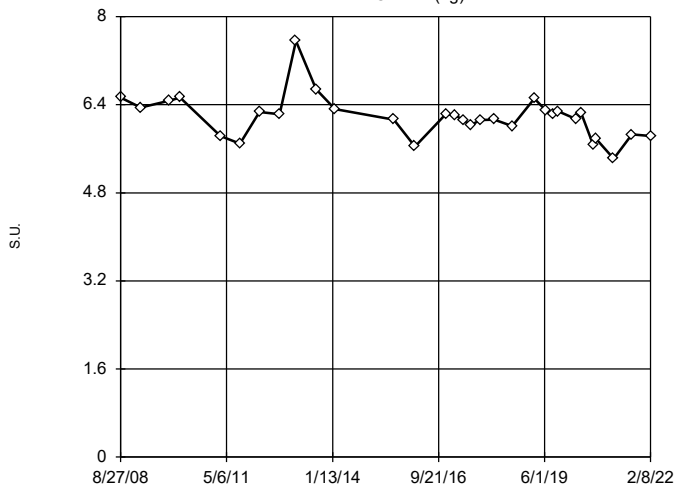
High cutoff = 0.06749, low cutoff = 0.0001556, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 31

No outliers found. Tukey's method selected by user.

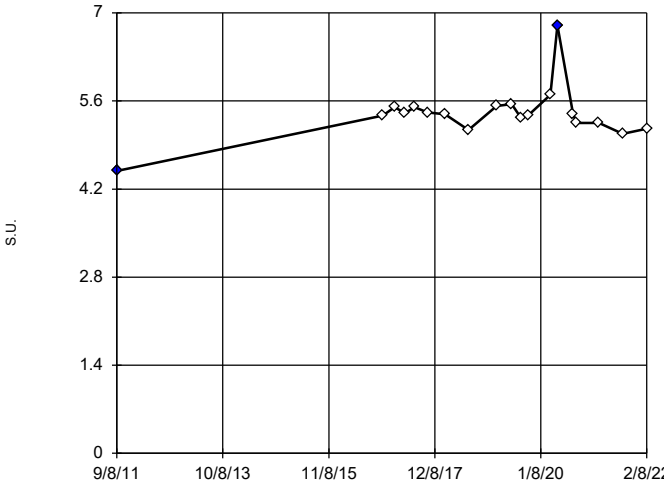
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 7.928, low cutoff = 4.671, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-1R



n = 19

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

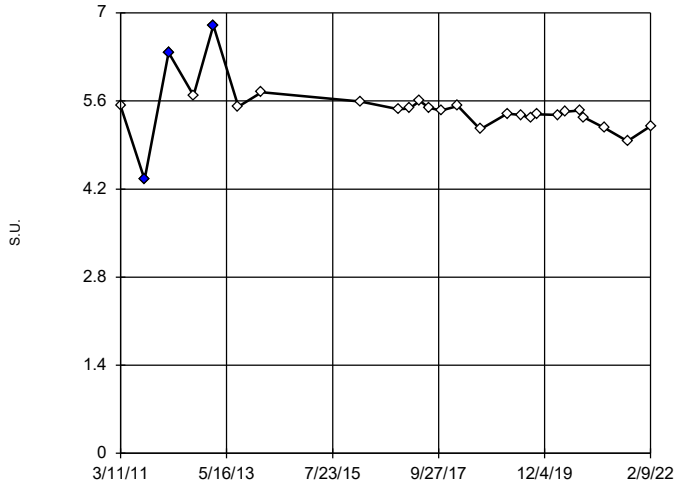
High cutoff = 6.324, low cutoff = 4.566, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 26

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

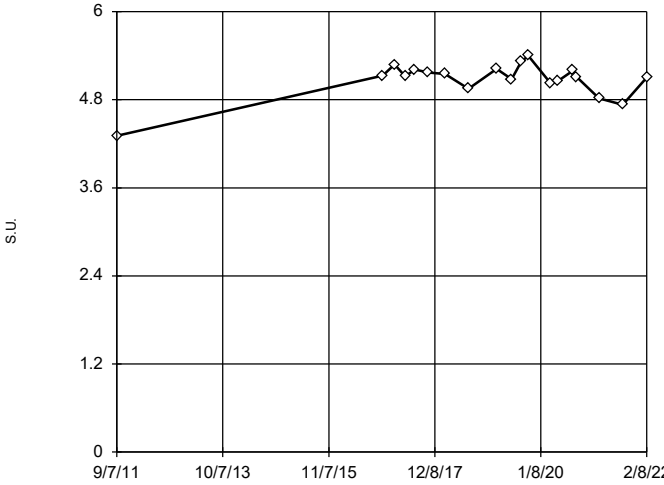
High cutoff = 6.27, low cutoff = 4.726, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 19

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

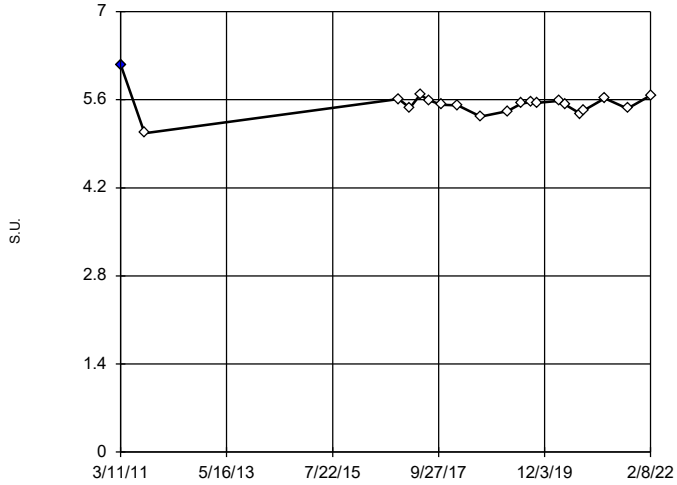
High cutoff = 5.617, low cutoff = 4.105, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 20

Outlier is drawn as solid.
Tukey's method selected by user.

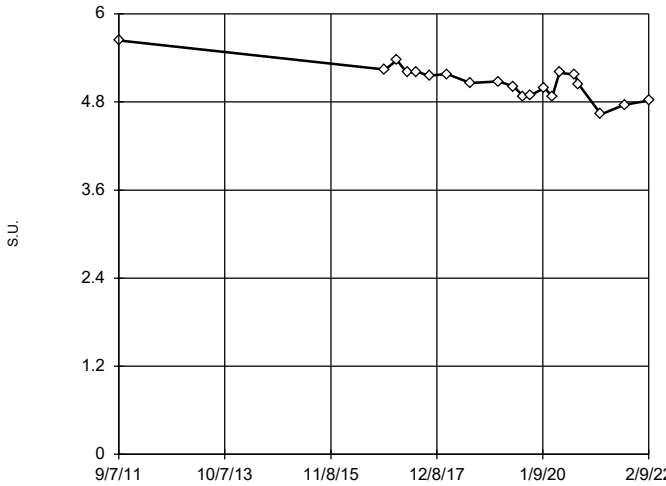
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.092, low cutoff = 5.005, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-5R



n = 20

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

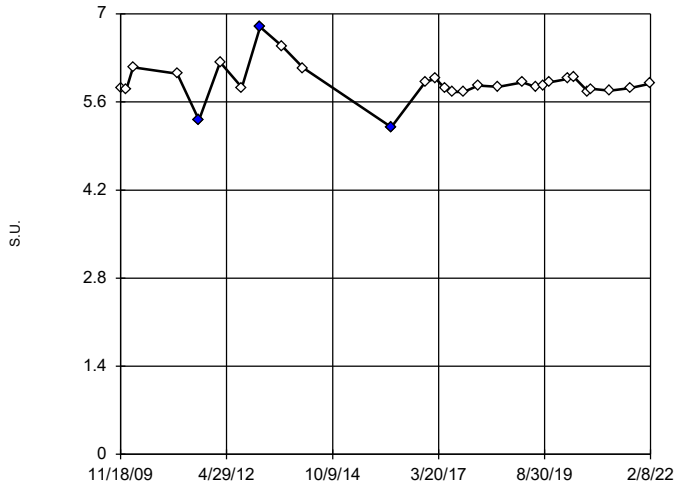
High cutoff = 6.272, low cutoff = 4.05, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 29

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

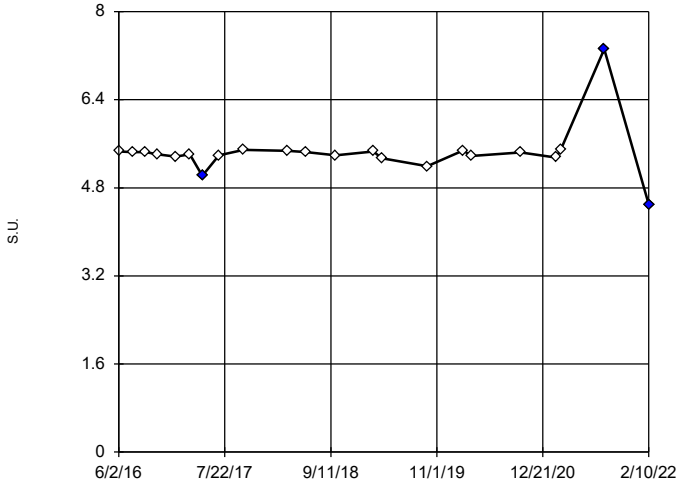
High cutoff = 6.537, low cutoff = 5.31, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-14S (bg)



n = 22

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

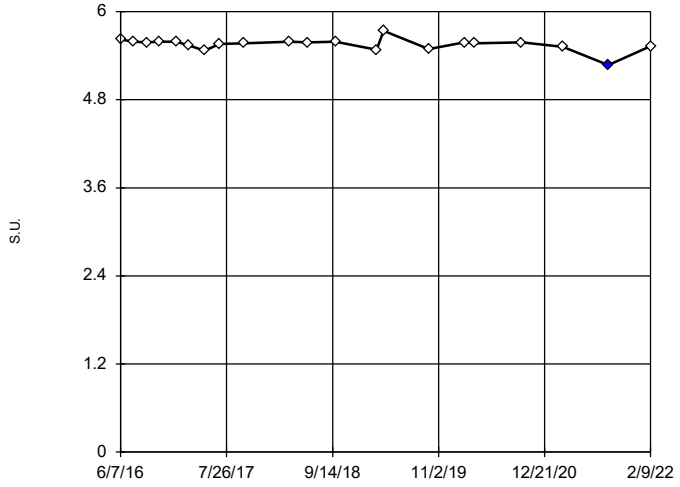
High cutoff = 5.793, low cutoff = 5.057, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 21

Outlier is drawn as solid.
Tukey's method selected by user.

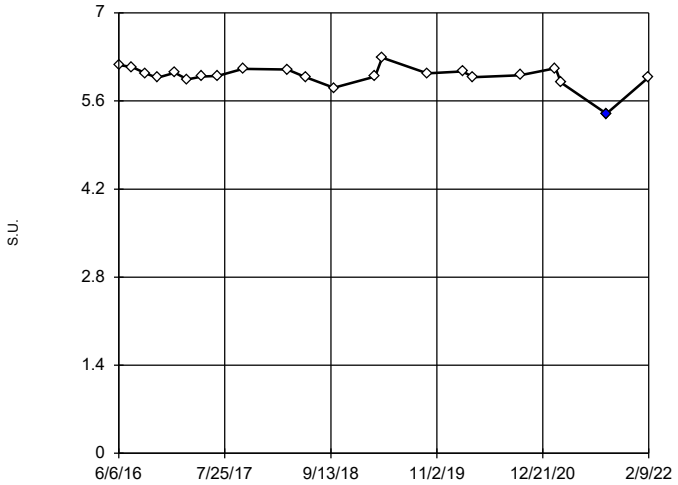
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 5.765, low cutoff = 5.303, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-18I (bg)



n = 22

Outlier is drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

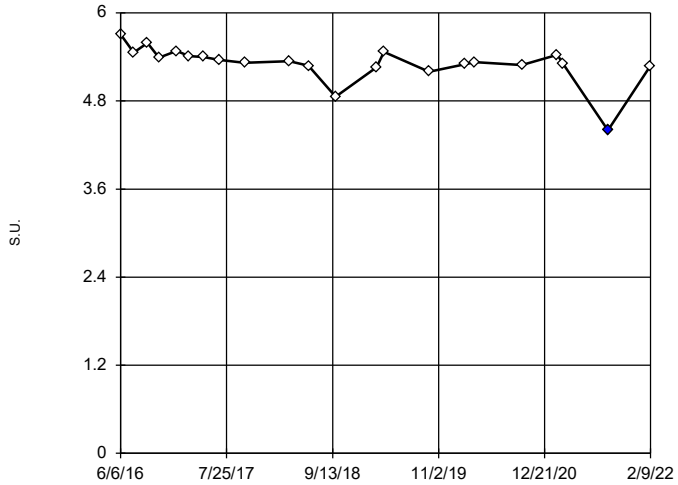
High cutoff = 6.429, low cutoff = 5.466, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 22

Outlier is drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

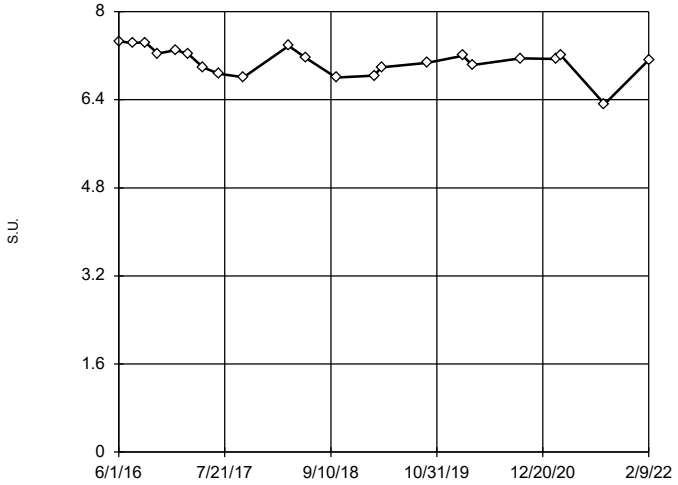
High cutoff = 5.83, low cutoff = 4.516, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1D (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

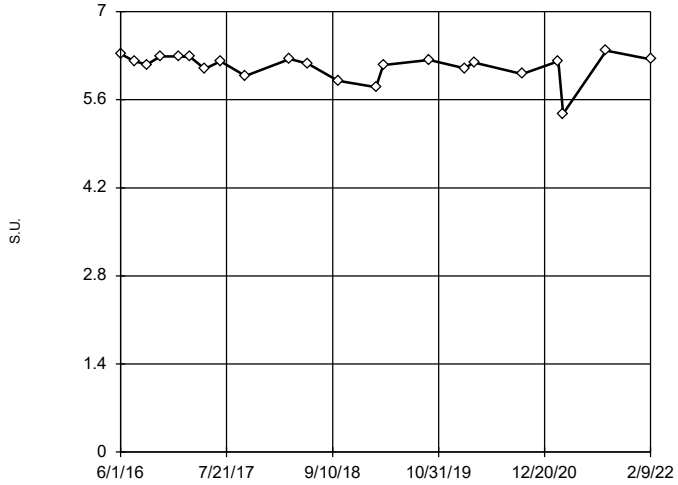
High cutoff = 7.979, low cutoff = 2.835, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 22

No outliers found. Tukey's method selected by user.

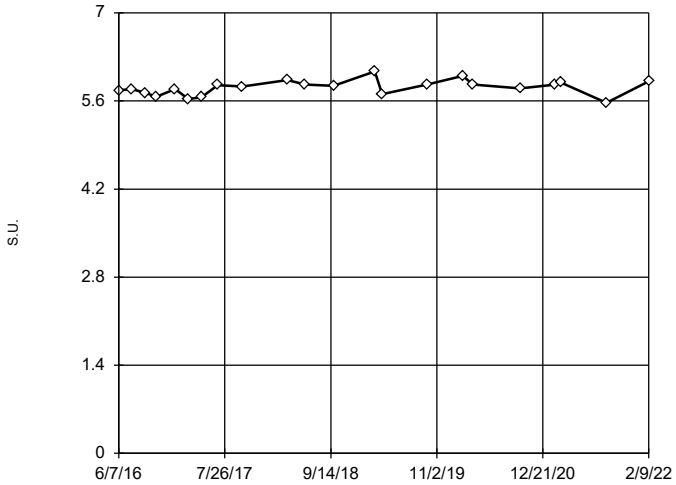
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.751, low cutoff = 4.958, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-20S (bg)



n = 22

No outliers found.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

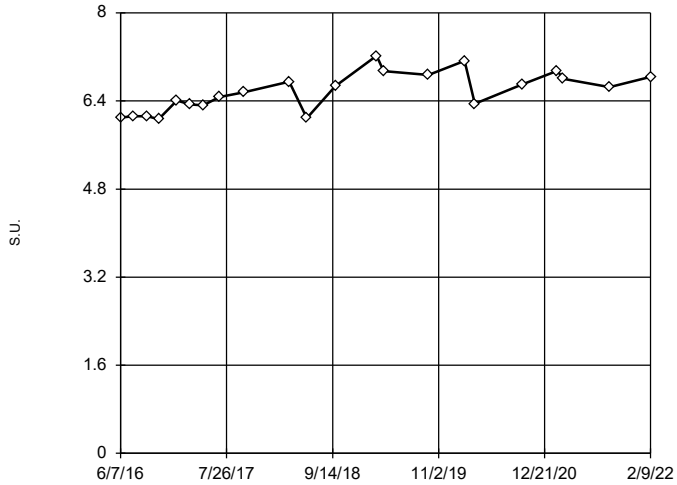
High cutoff = 6.317, low cutoff = 5.227, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 22

No outliers found.
Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

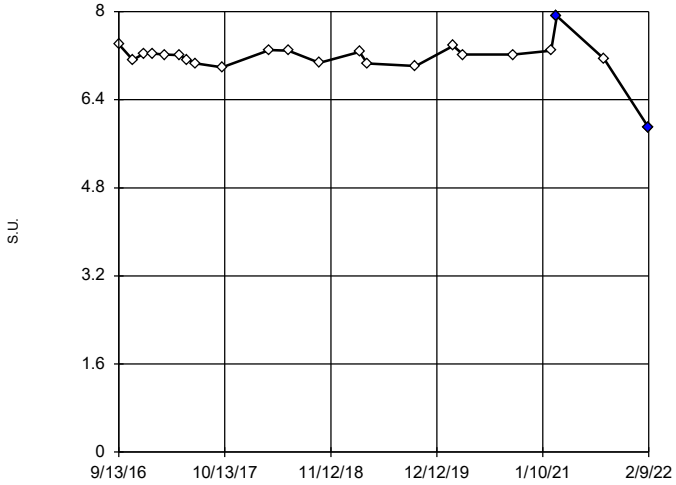
High cutoff = 8.478, low cutoff = 3.718, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-2I (bg)



n = 22

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

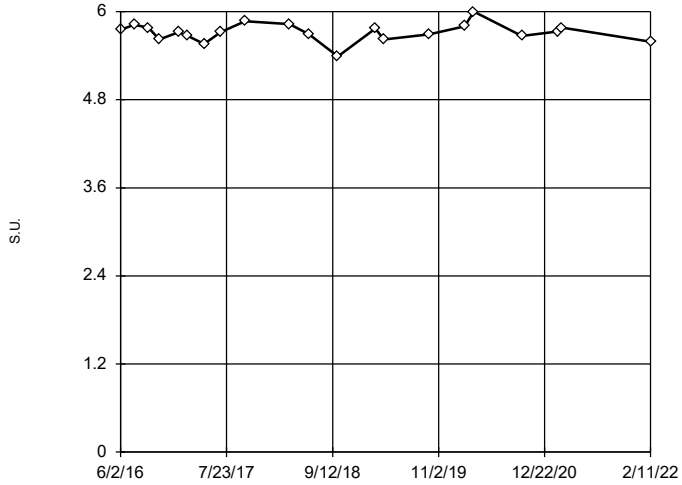
High cutoff = 7.812, low cutoff = 6.011, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 21

No outliers found.
Tukey's method selected by user.

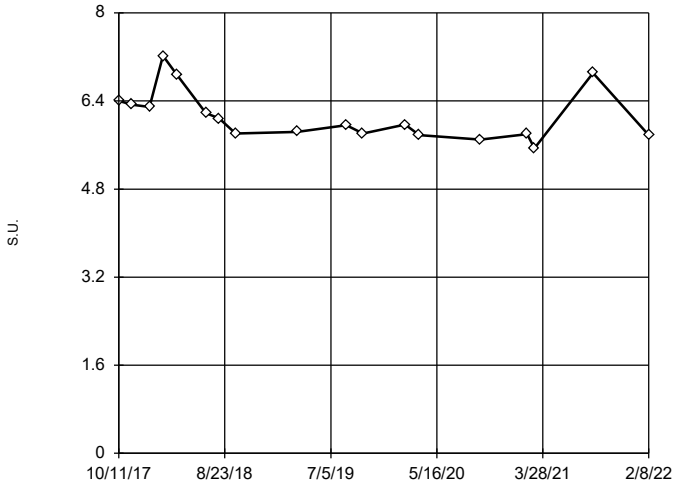
Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.154, low cutoff = 5.088, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-39 (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

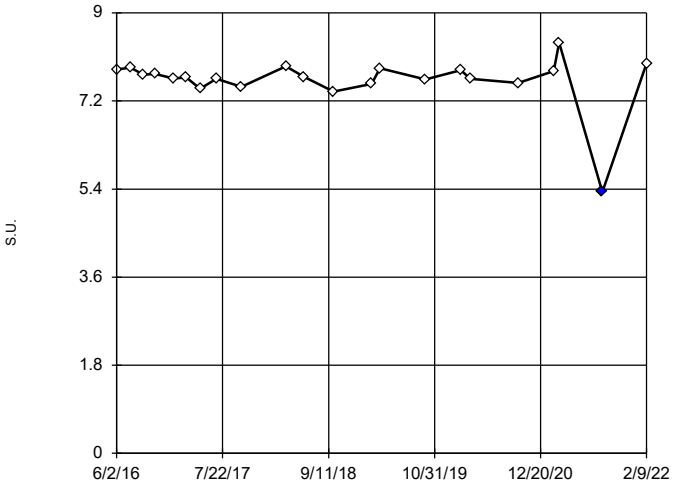
High cutoff = 8.455, low cutoff = 4.358, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 22

Outlier is drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

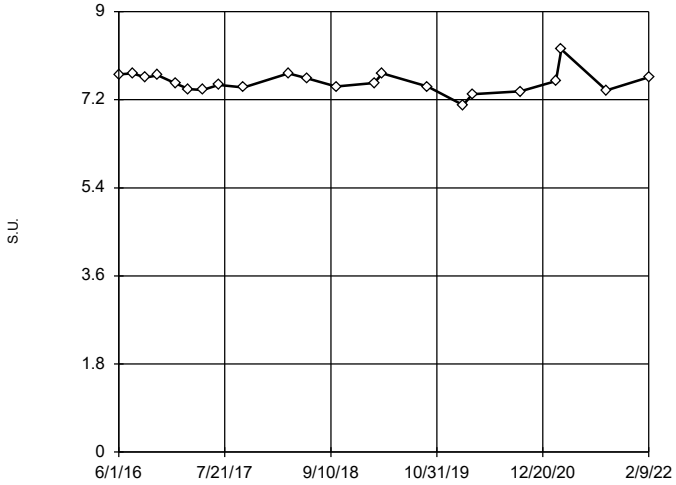
High cutoff = 8.509, low cutoff = 5.897, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

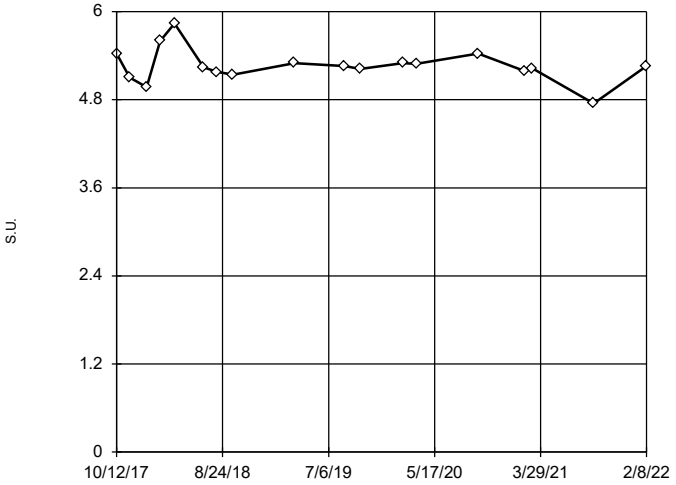
High cutoff = 8.685, low cutoff = 6.578, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 18

No outliers found. Tukey's method selected by user.

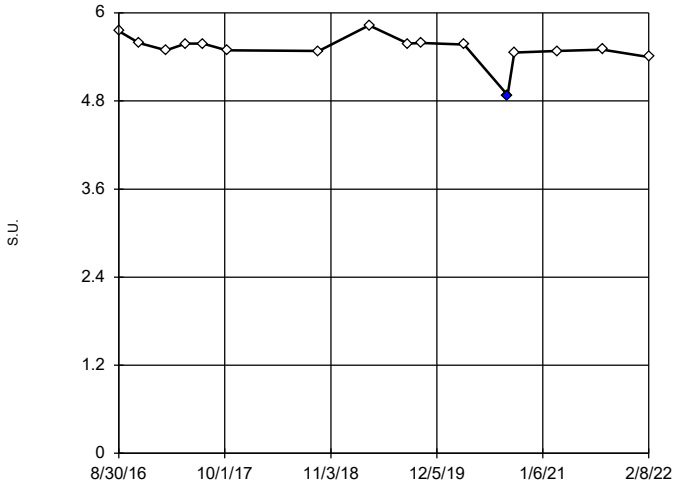
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.029, low cutoff = 4.592, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-47 (bg)



n = 16

Outlier is drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 5.852, low cutoff = 5.085, based on IQR multiplier of 3.

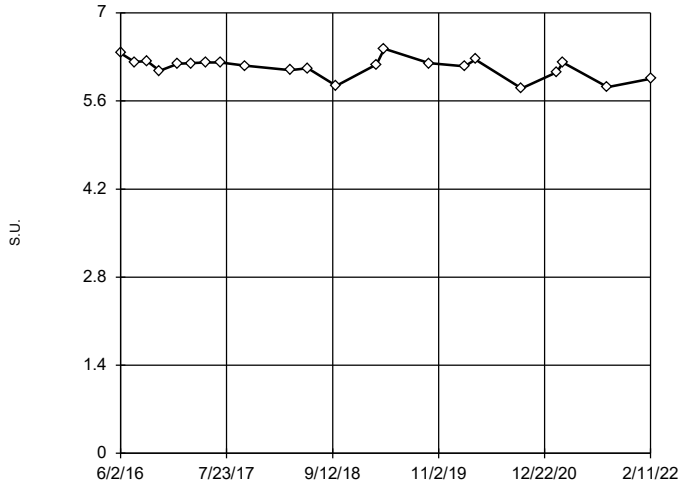
Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 22

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.57, low cutoff = 5.484, based on IQR multiplier of 3.

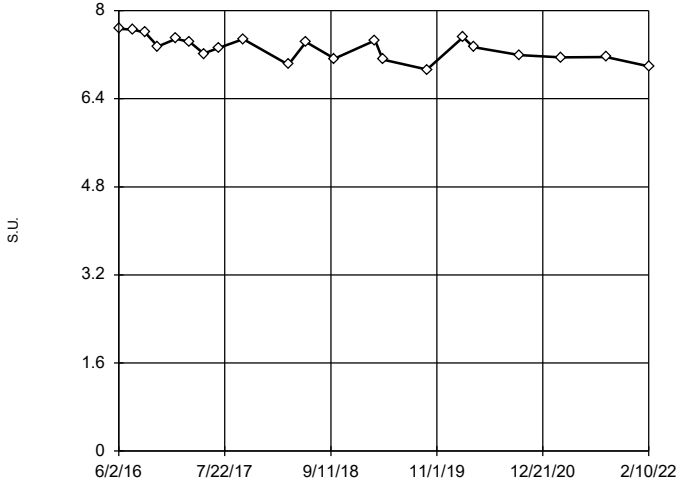
Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 8.436, low cutoff = 5.987, based on IQR multiplier of 3.

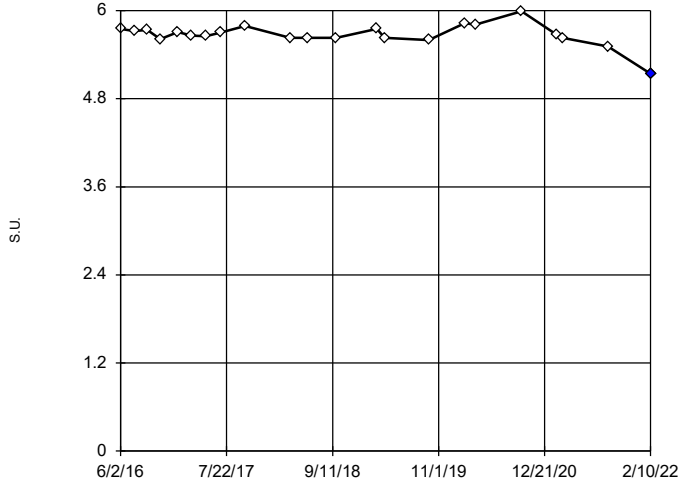
Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 22

Outlier is drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

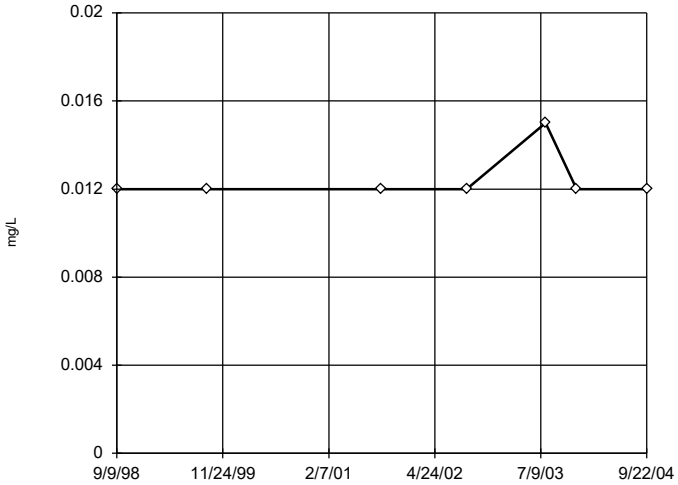
High cutoff = 6.05, low cutoff = 5.164, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

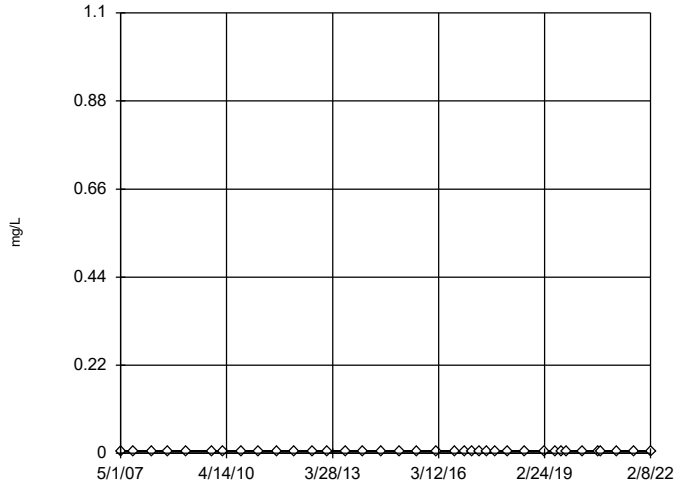
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 37

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

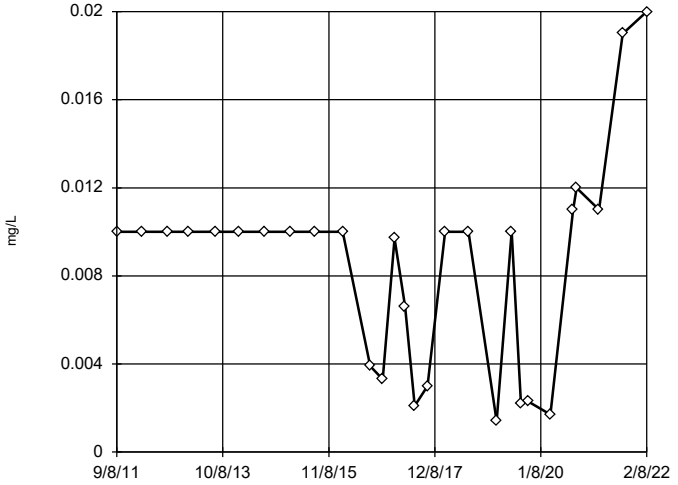
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 28

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

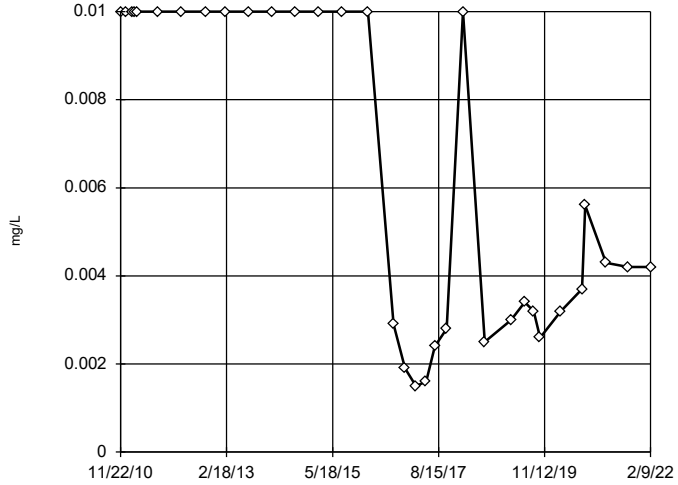
High cutoff = 0.04847, low cutoff = -0.003625, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 33

No outliers found. Tukey's method selected by user.

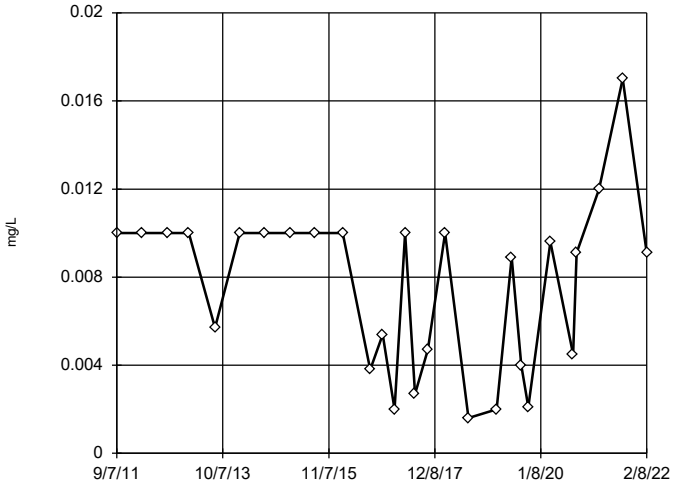
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.3897, low cutoff = 0.00007569, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-3R



n = 28

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

High cutoff = 0.02725, low cutoff = -0.013, based on IQR multiplier of 3.

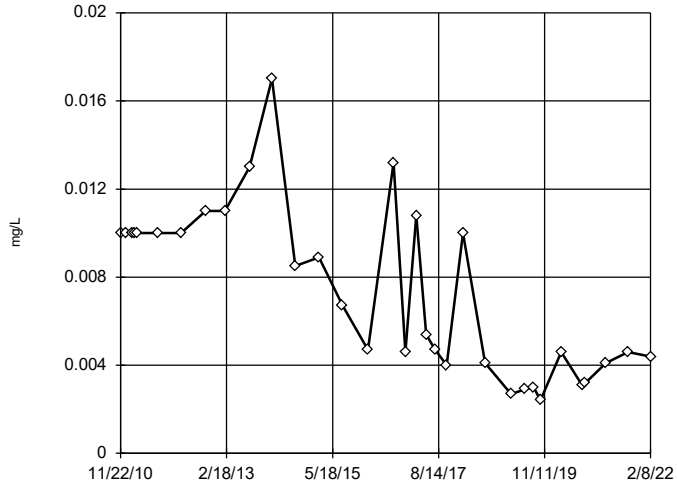
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 33

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.05558, low cutoff = -2.3e-7, based on IQR multiplier of 3.

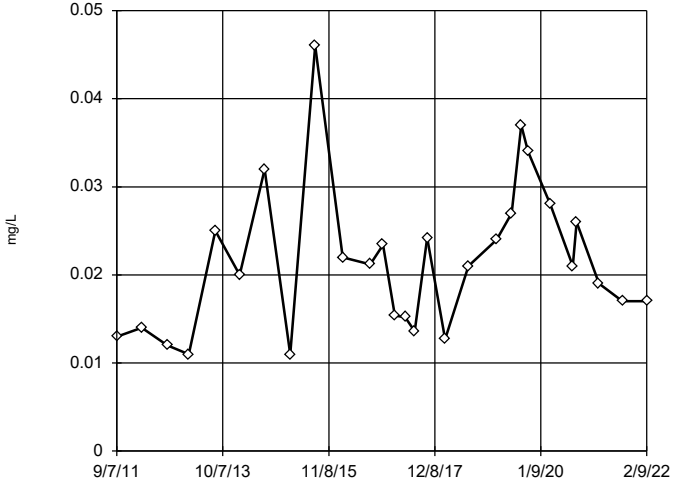
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1361, low cutoff = 0.002733, based on IQR multiplier of 3.

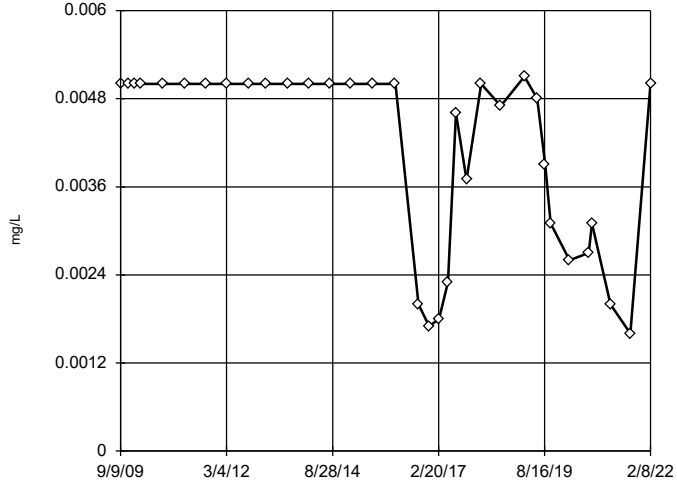
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 34

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

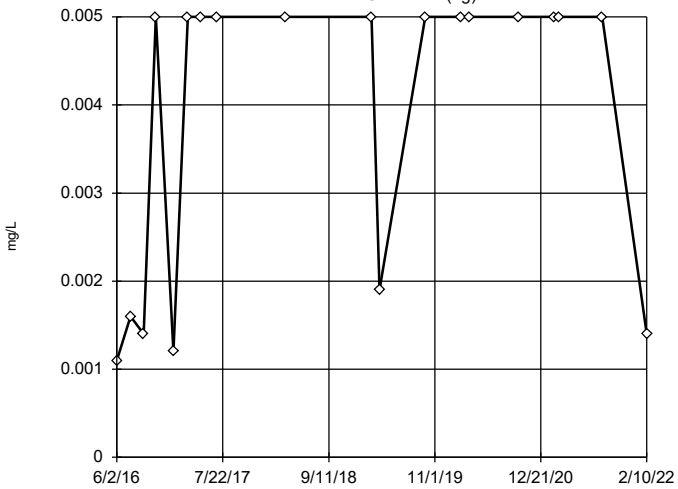
High cutoff = 0.00864, low cutoff = -0.006419, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-14S (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1526, low cutoff = 0.00005243, based on IQR multiplier of 3.

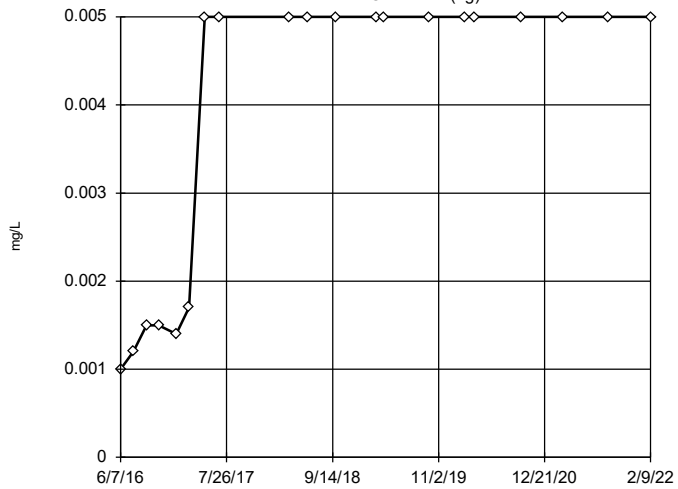
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 20

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1535, low cutoff = 0.00005202, based on IQR multiplier of 3.

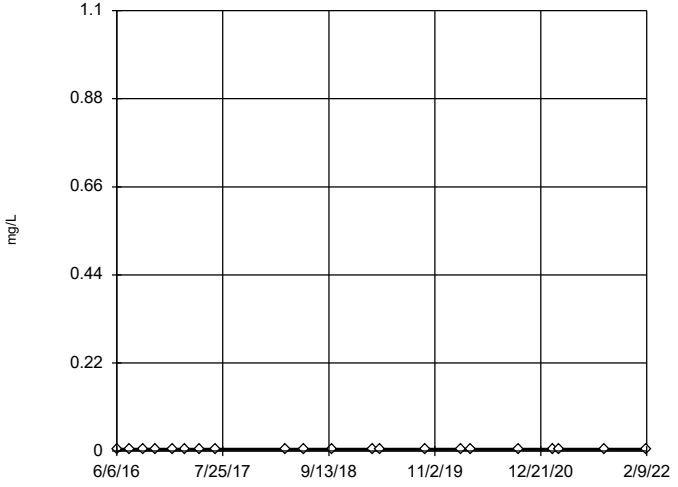
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

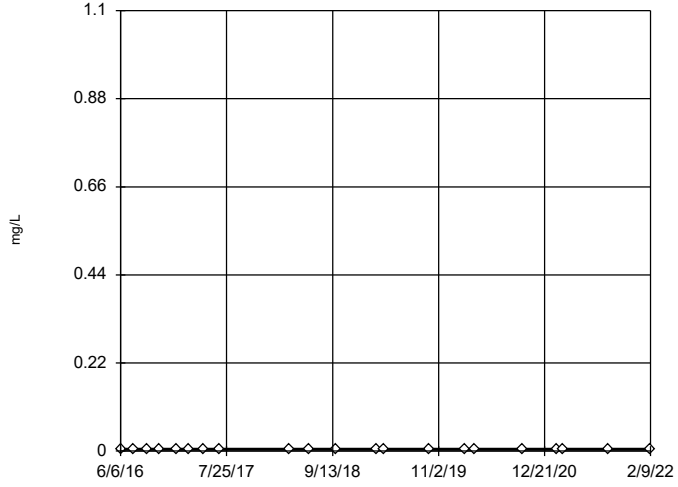
Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

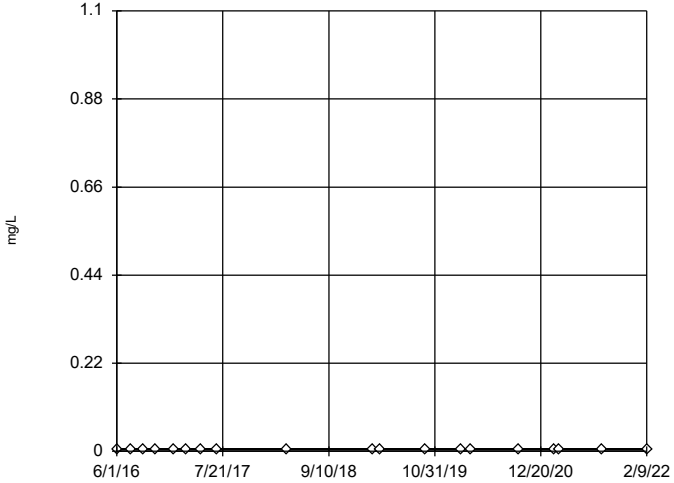
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

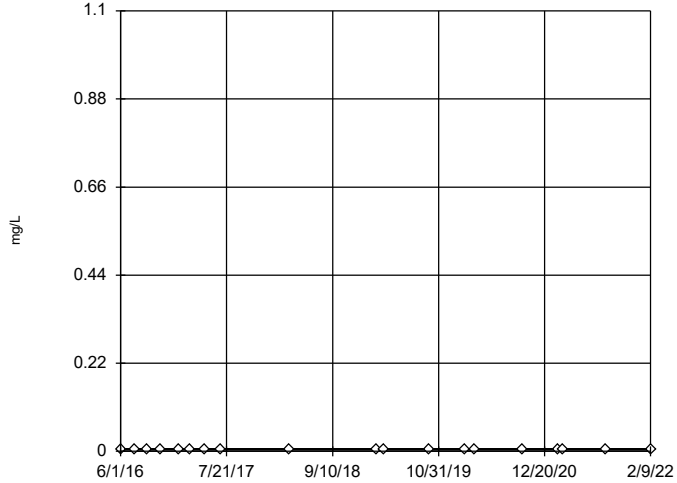
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

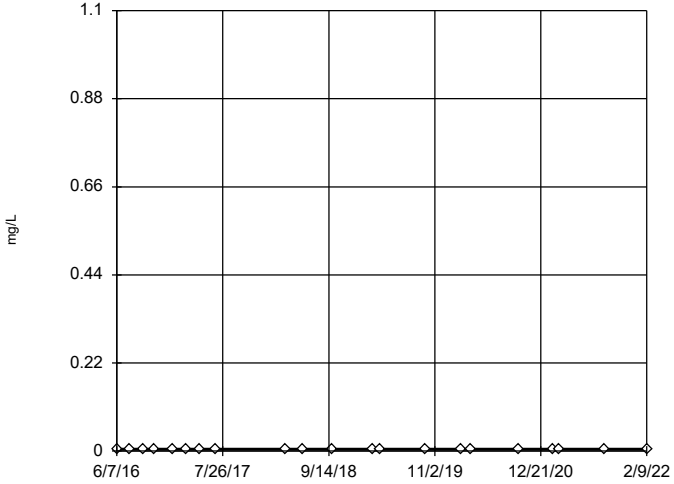
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

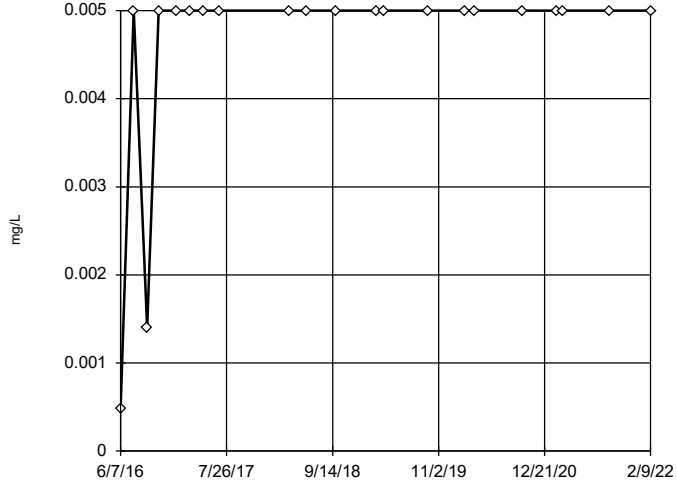
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 21

No outliers found. Tukey's method selected by user.

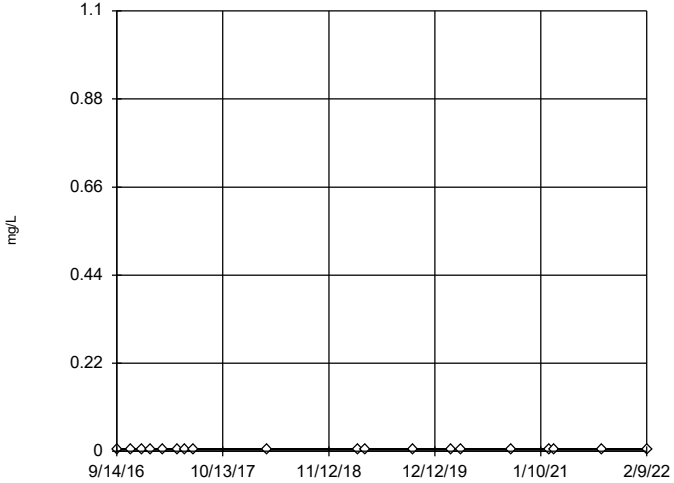
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:43 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-2I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

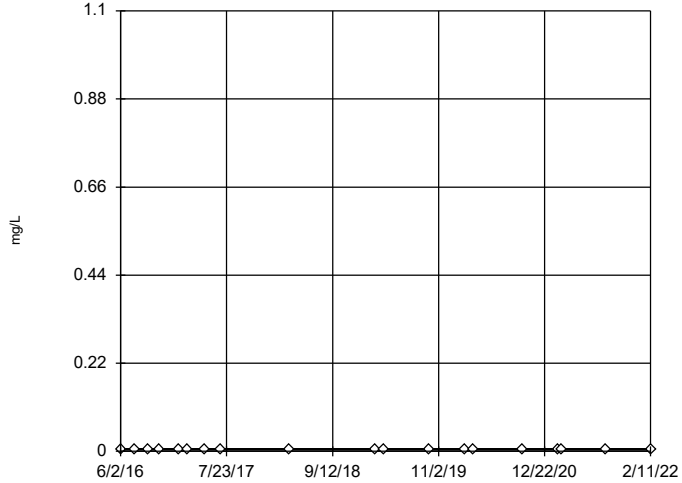
Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

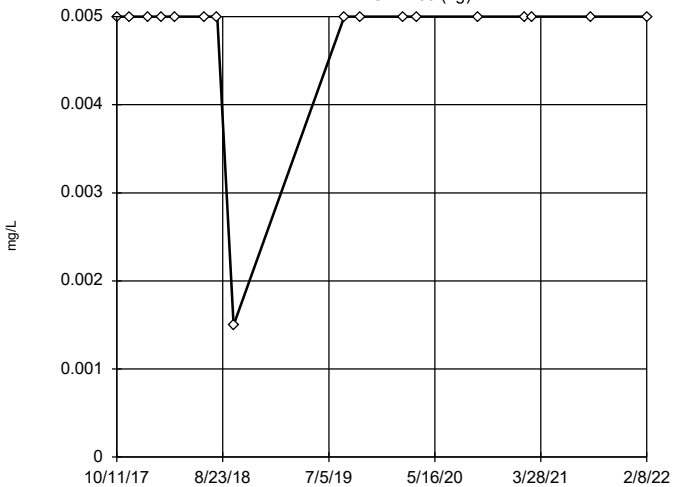
Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

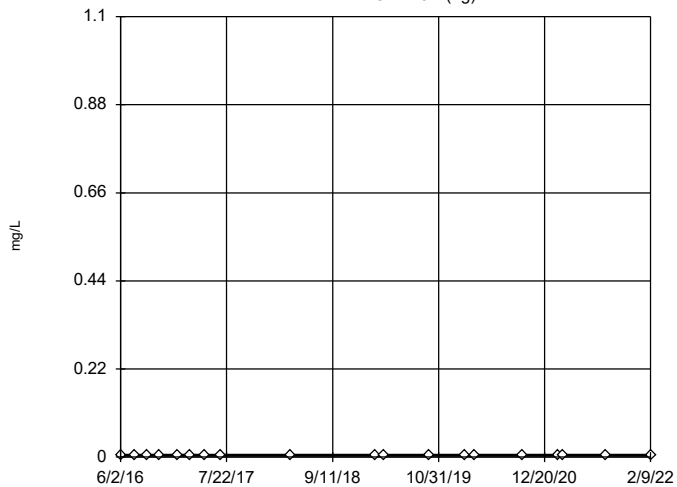
Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

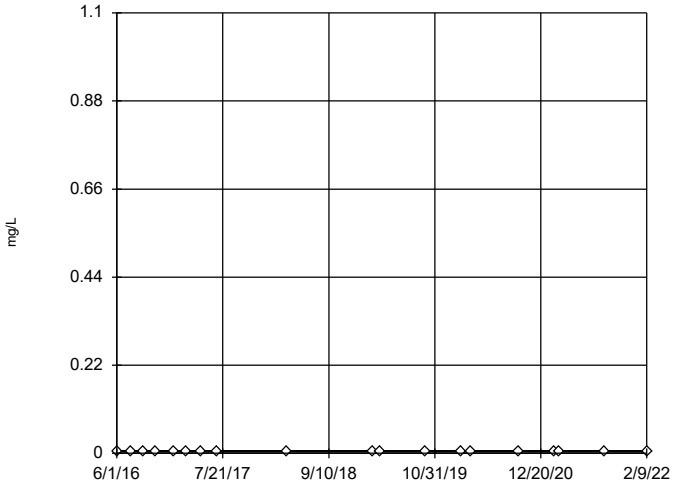
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3I (bg)



n = 19

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

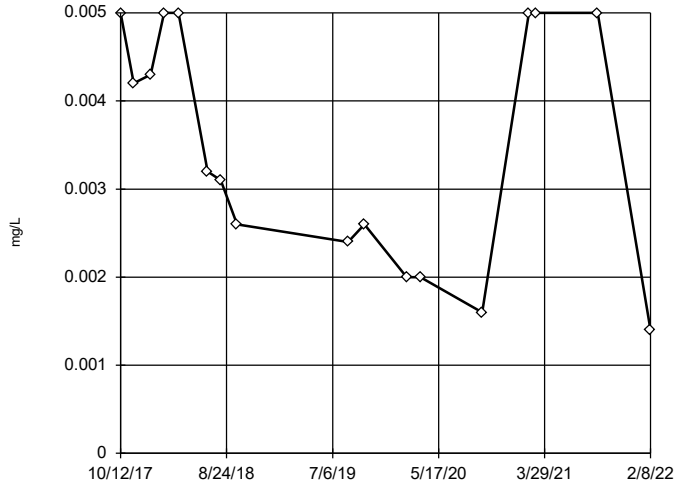
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

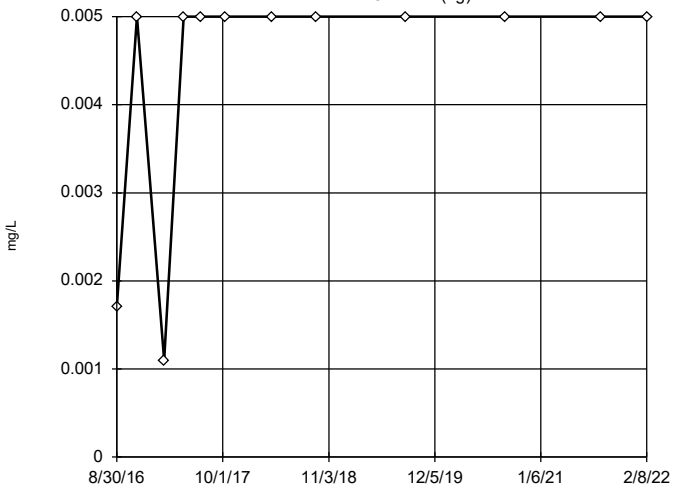
High cutoff = 0.05943, low cutoff = 0.0001843, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 12

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

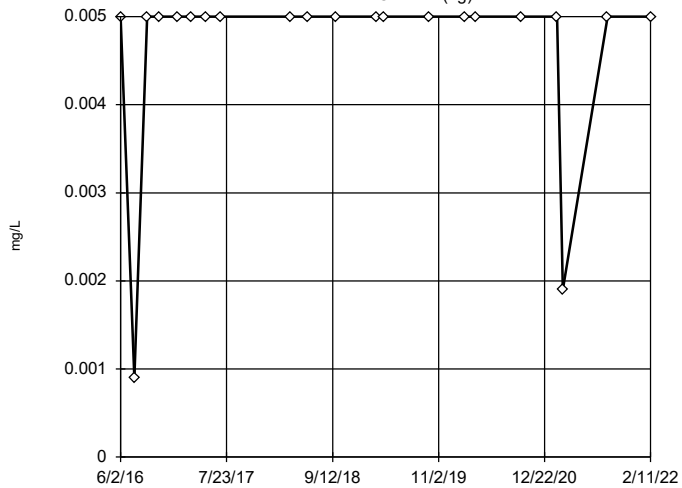
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 21

No outliers found. Tukey's method selected by user.

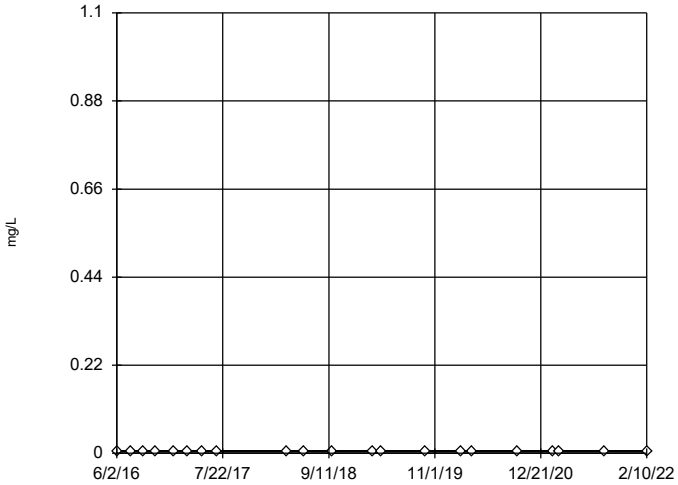
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5D (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

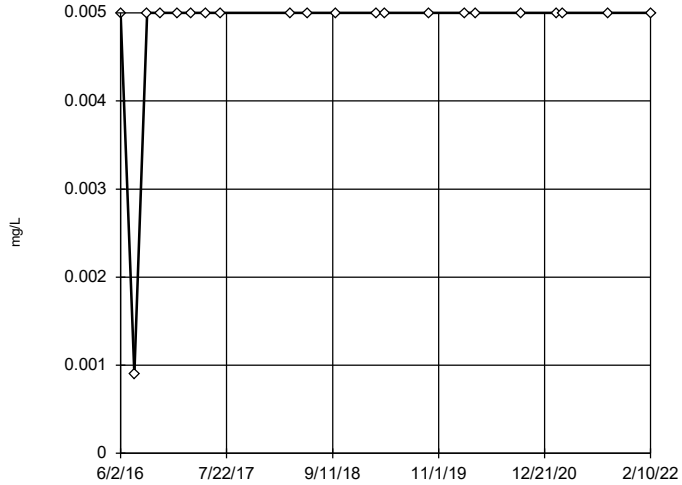
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 21

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

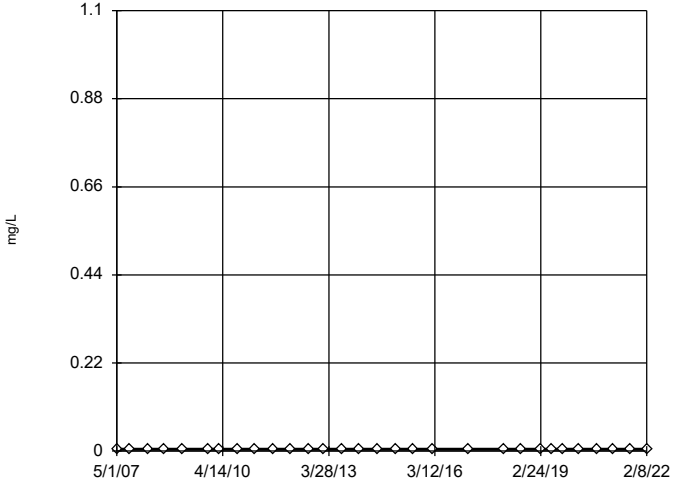
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 30

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

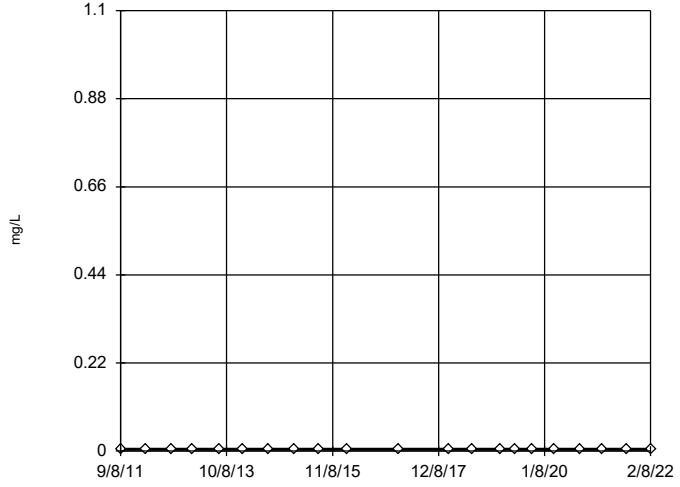
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 21

No outliers found. Tukey's method selected by user.

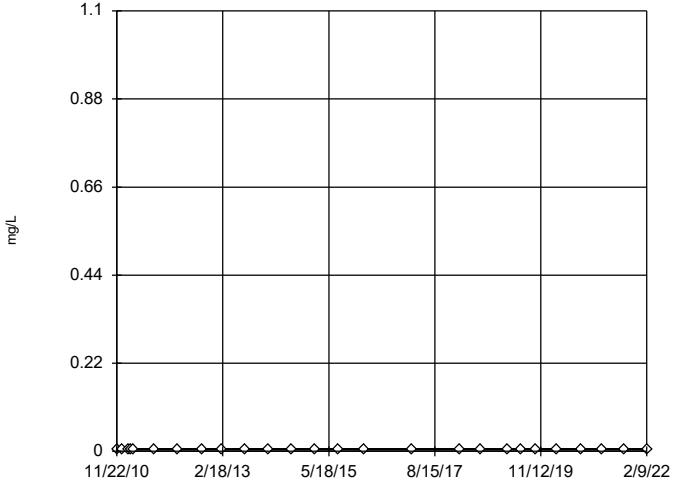
Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 26

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

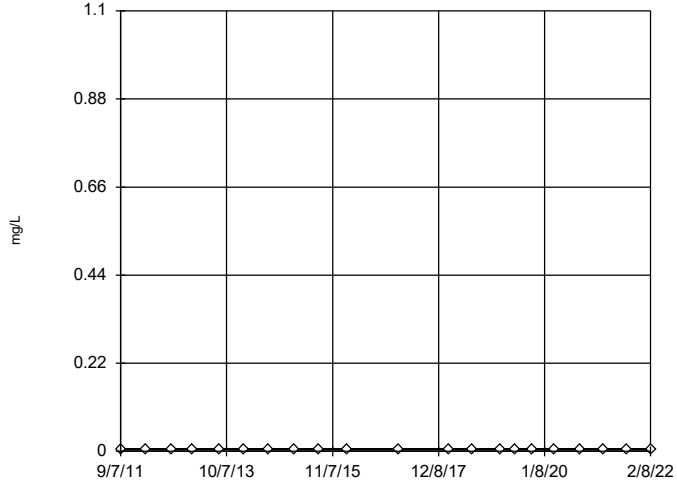
Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 21

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

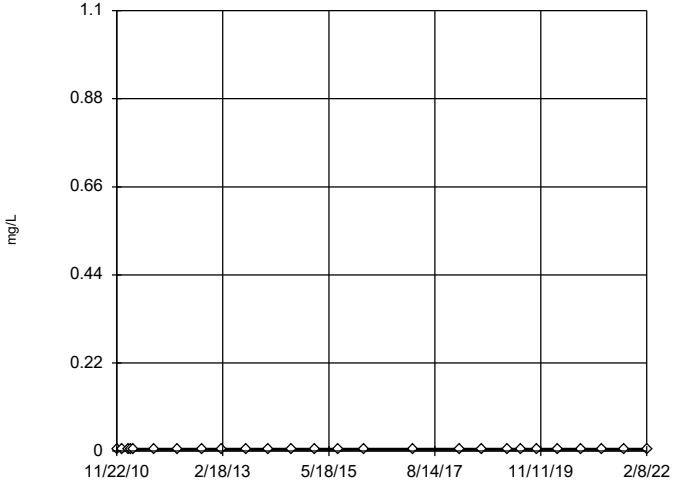
Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 26

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

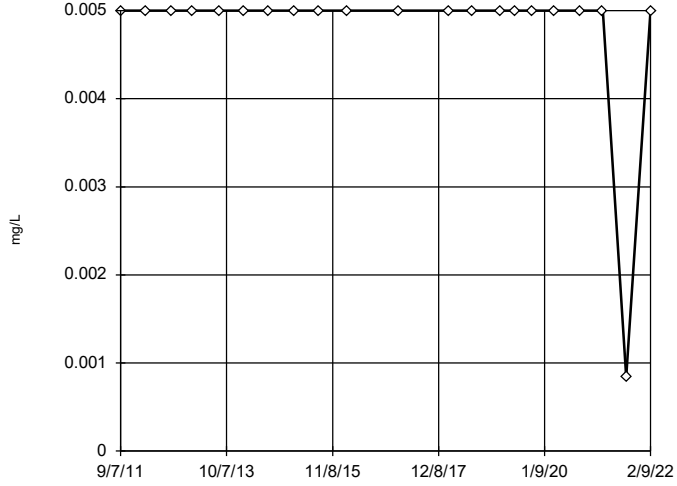
Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 21

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

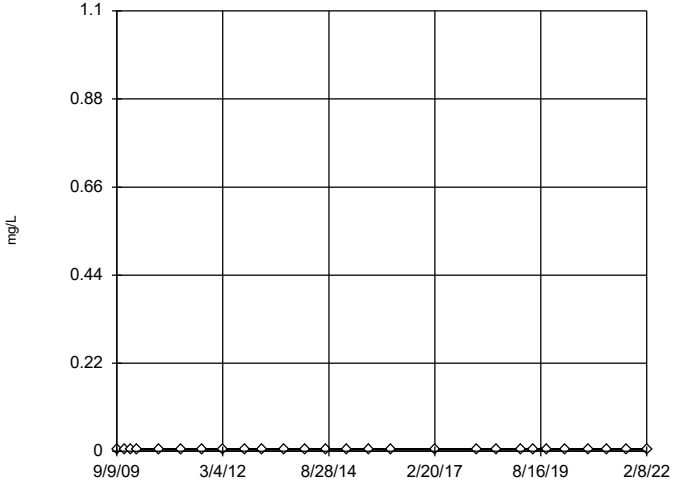
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 27

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

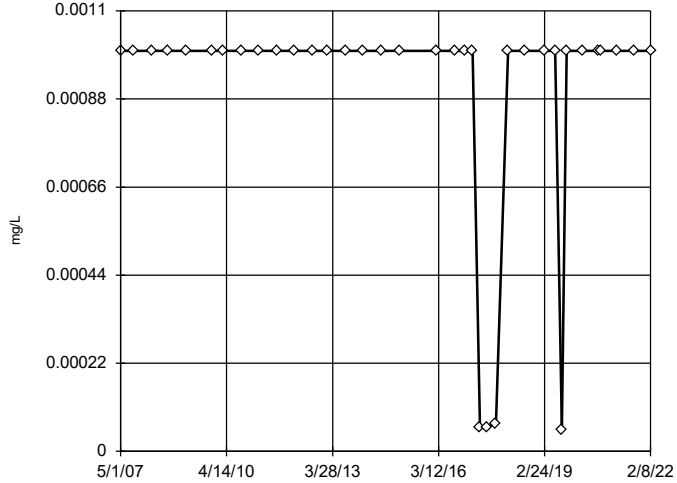
Constituent: Silver Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 36

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

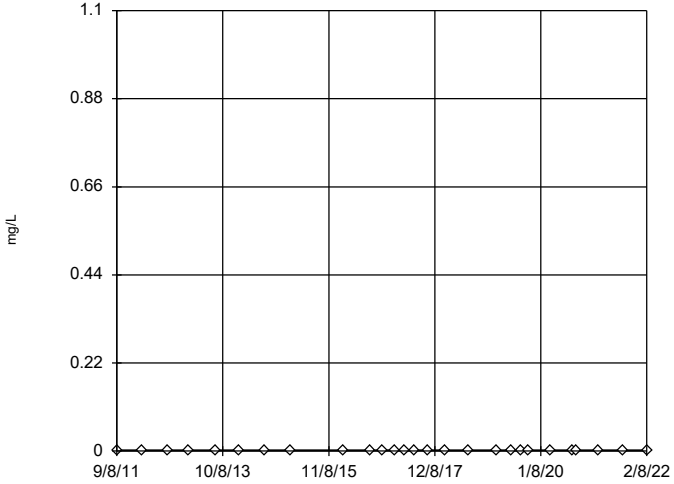
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 27

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

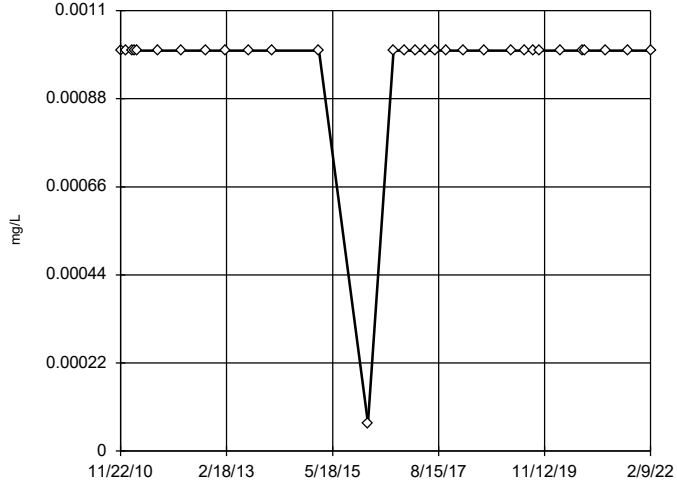
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-2R



n = 31

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

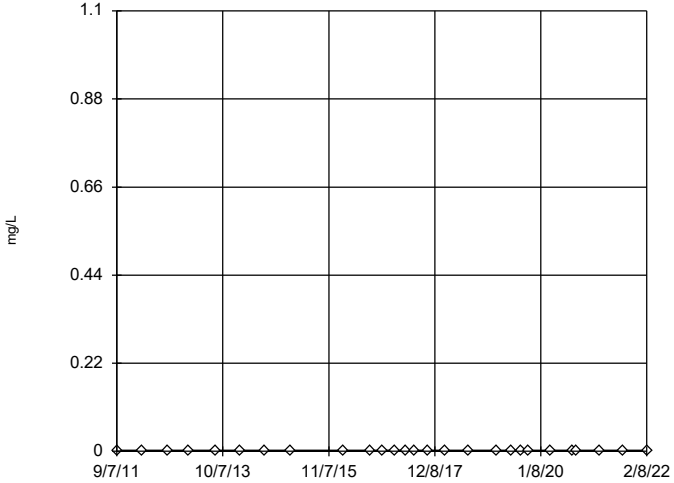
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-3R



n = 27

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

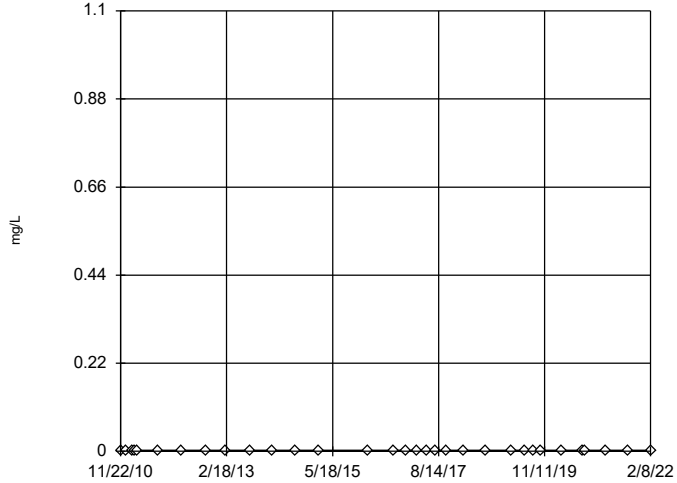
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 32

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

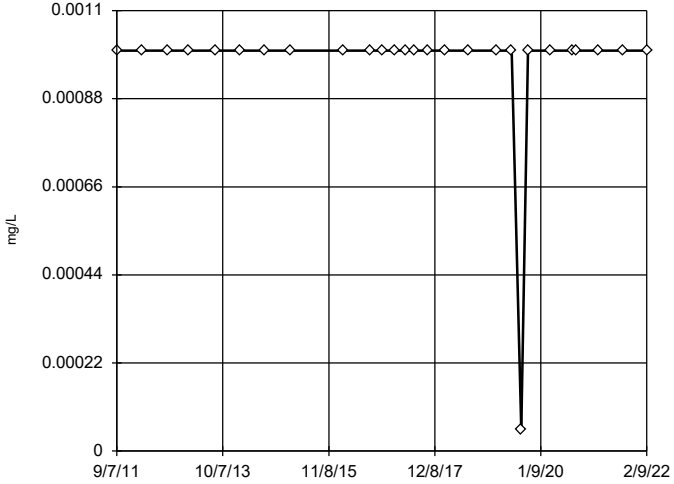
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 27

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

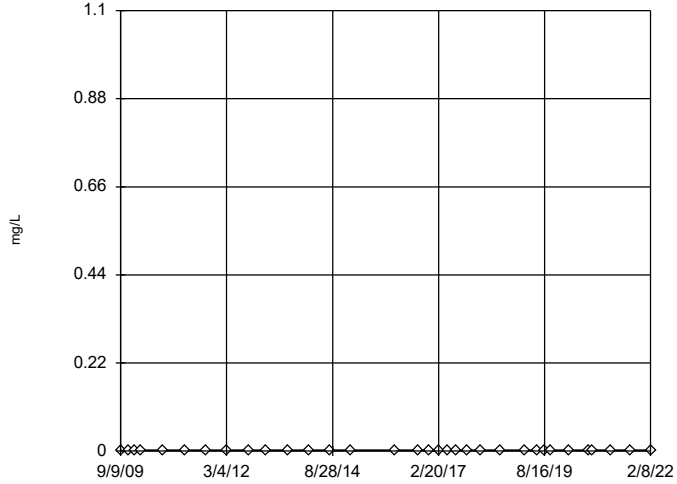
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-6R



n = 33

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

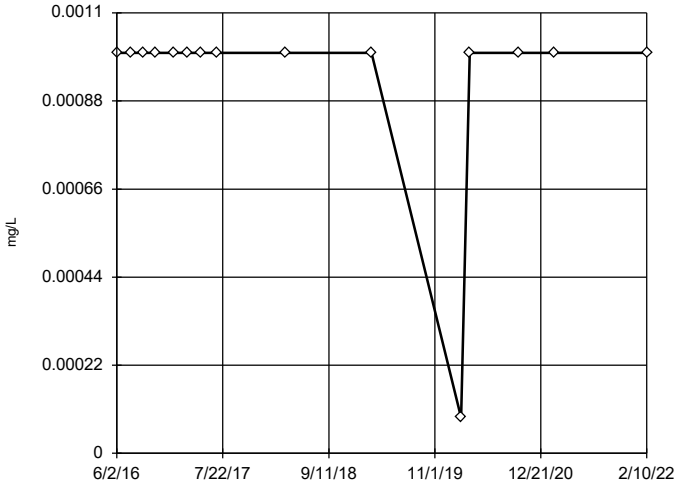
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-14S (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

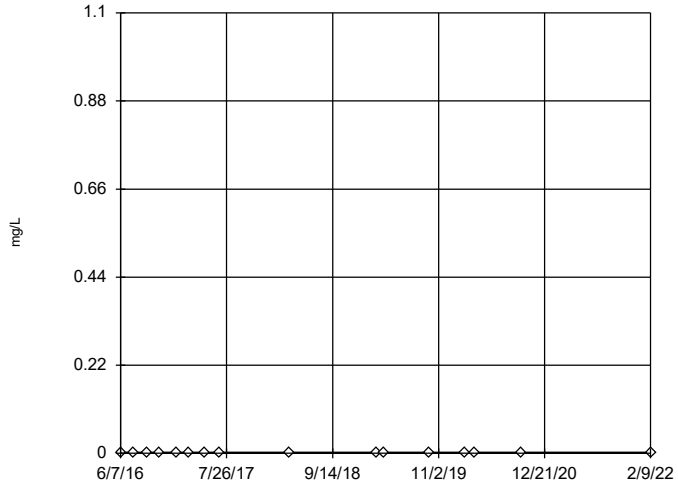
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-17S (bg)



n = 16

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

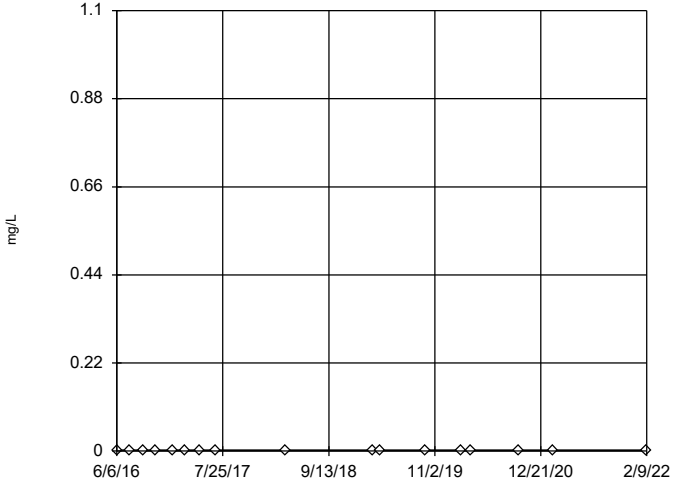
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

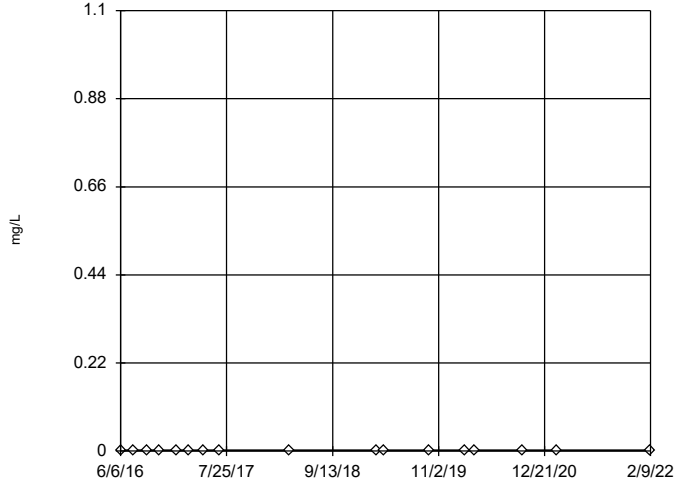
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-18S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

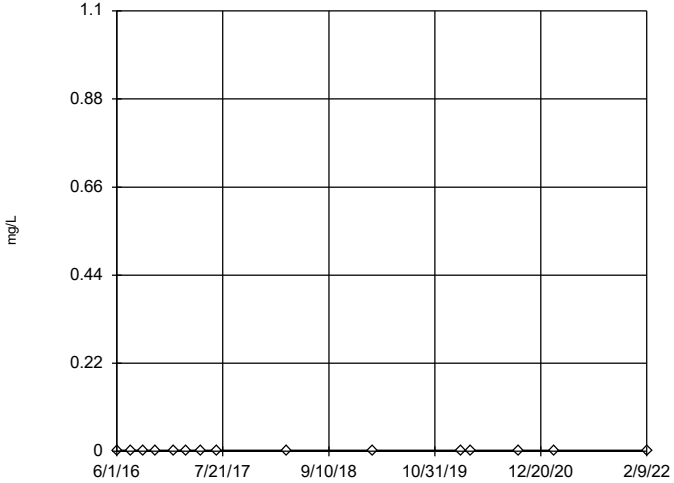
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-1D (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

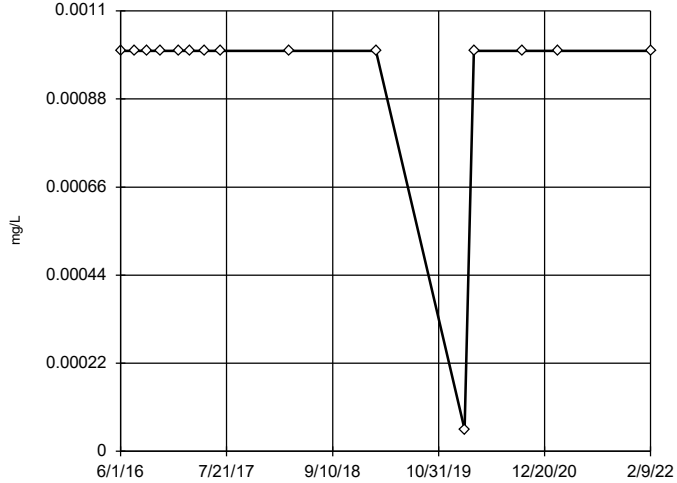
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-1I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

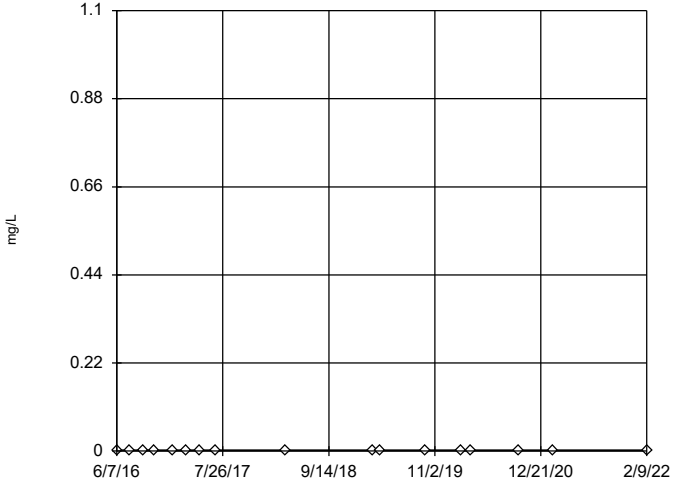
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-20S (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

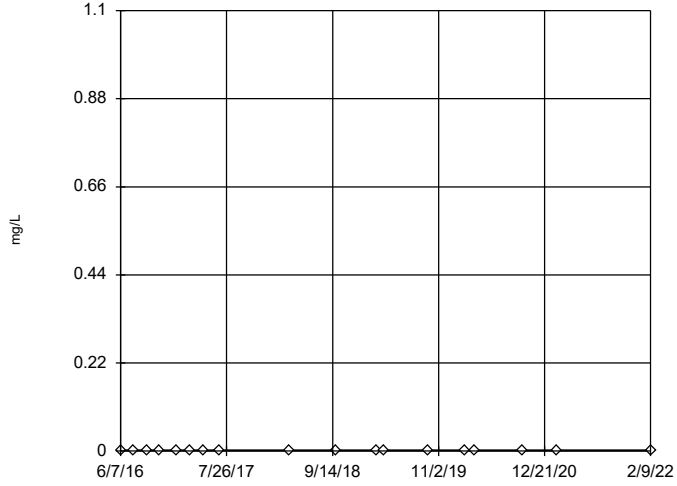
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-21I (bg)



n = 18

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

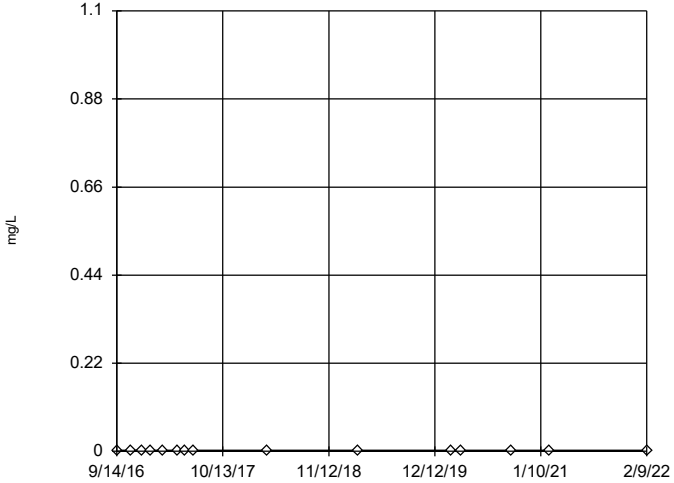
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-2I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

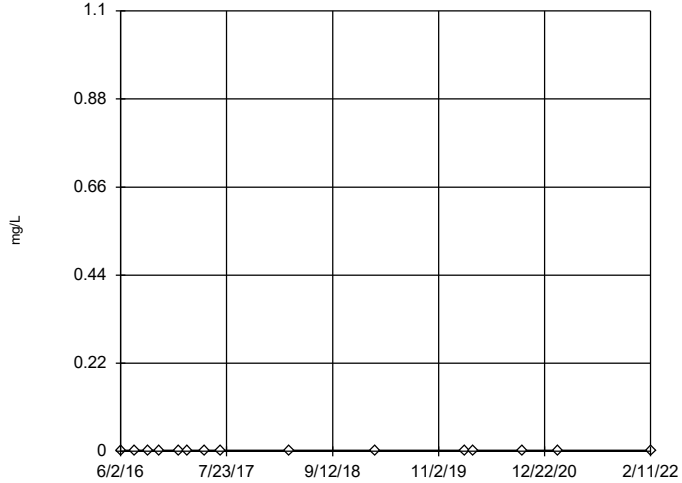
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-30I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

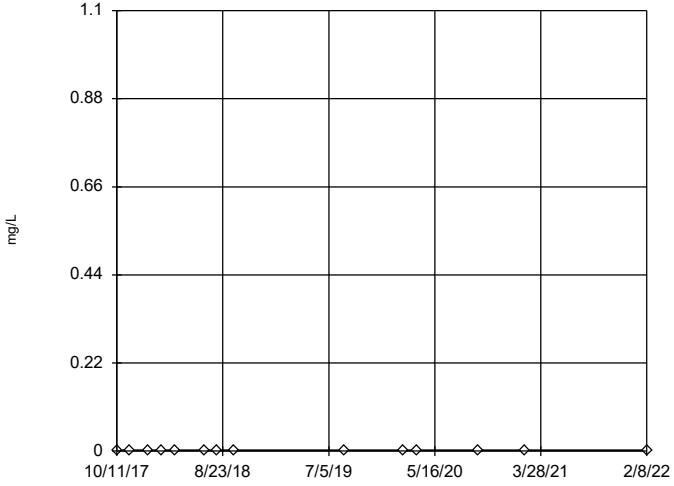
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-39 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

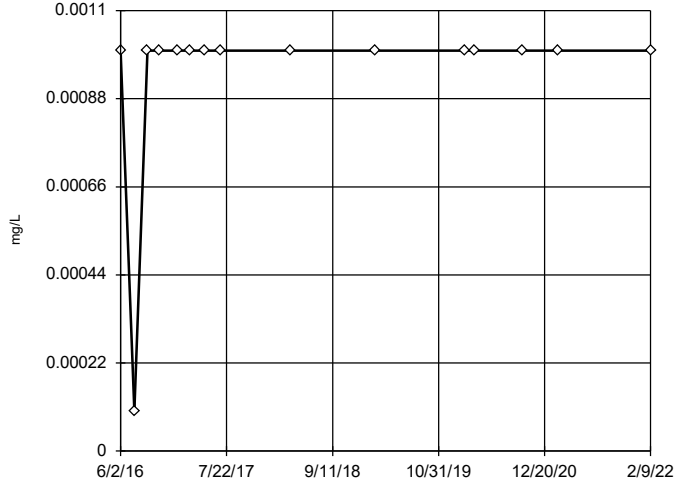
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-3D (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

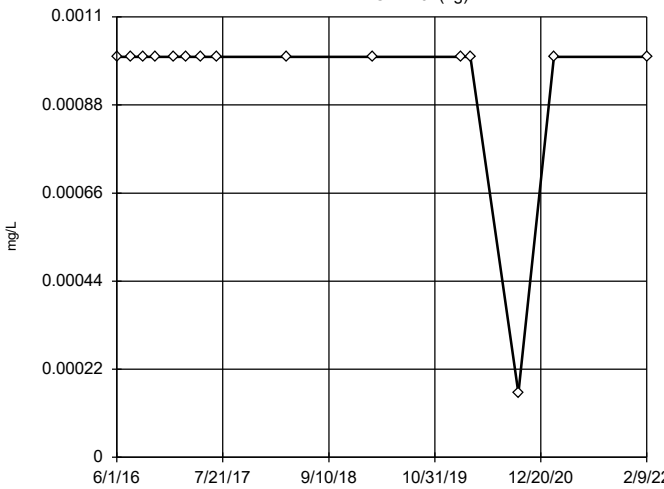
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-3I (bg)



n = 15

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

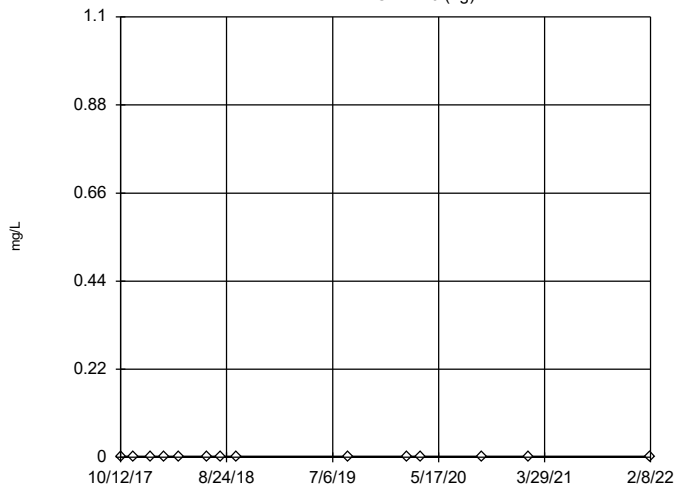
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-40 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

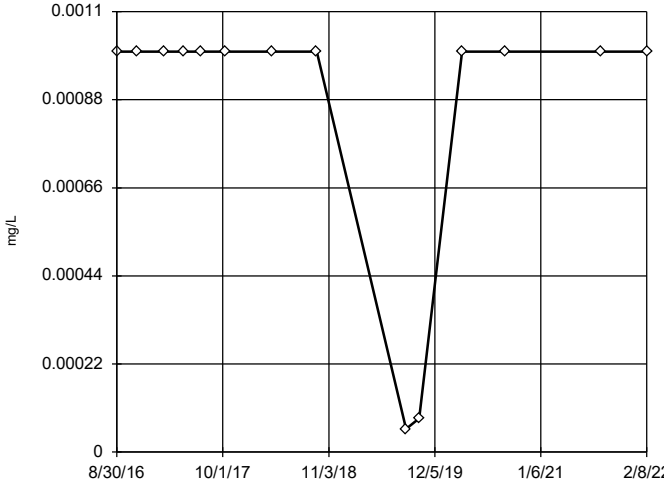
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-47 (bg)



n = 14

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

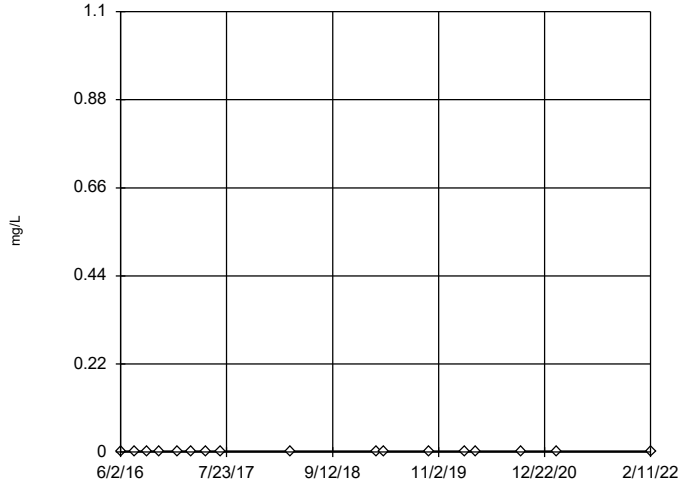
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-4I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

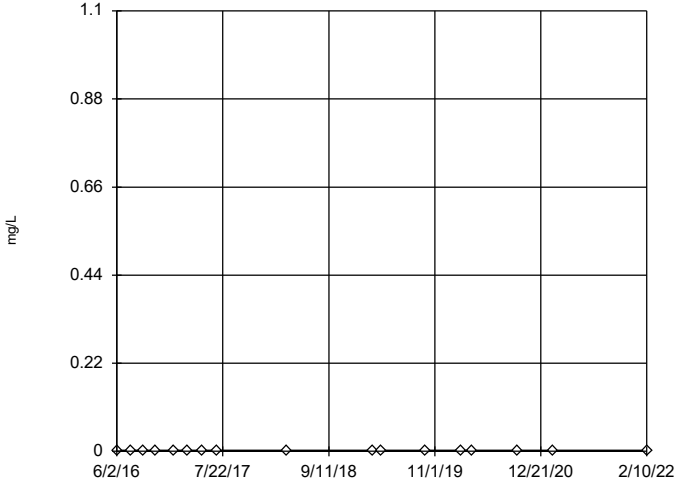
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

YGWA-5D (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

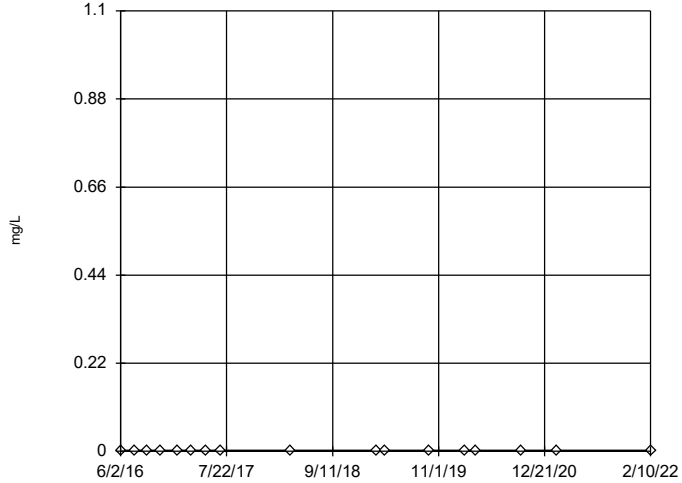
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

YGWA-5I (bg)



n = 17

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

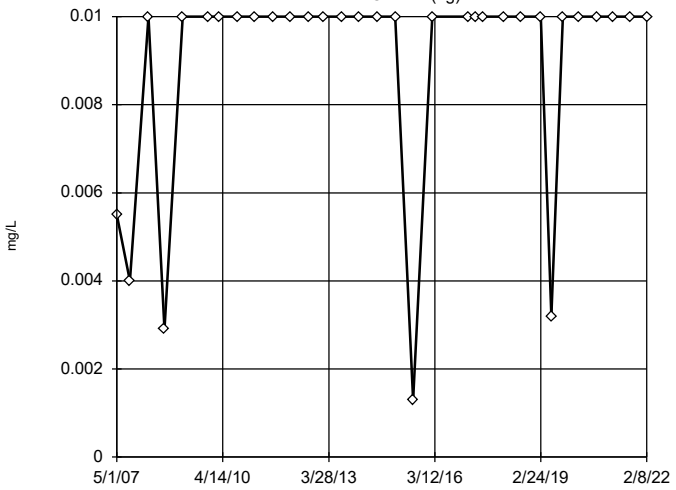
Constituent: Thallium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 32

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

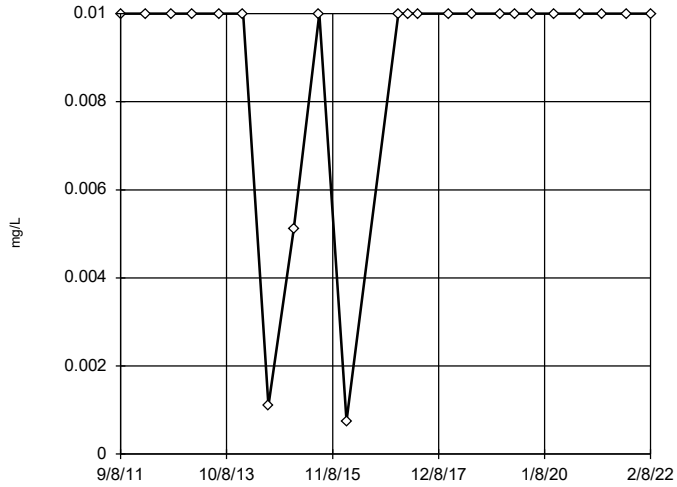
Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 23

No outliers found. Tukey's method selected by user.

Data were square transformed to achieve best W statistic (graph shown in original units).

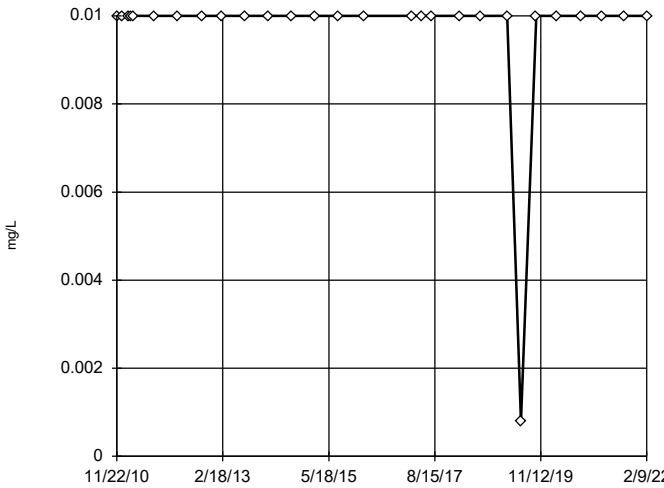
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 28

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

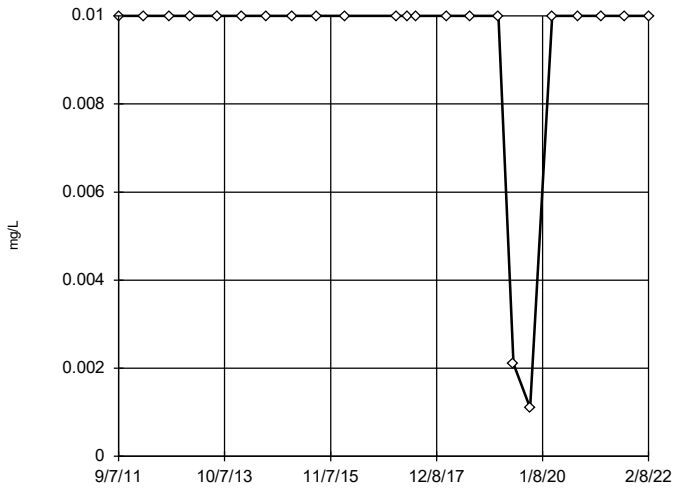
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 23

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

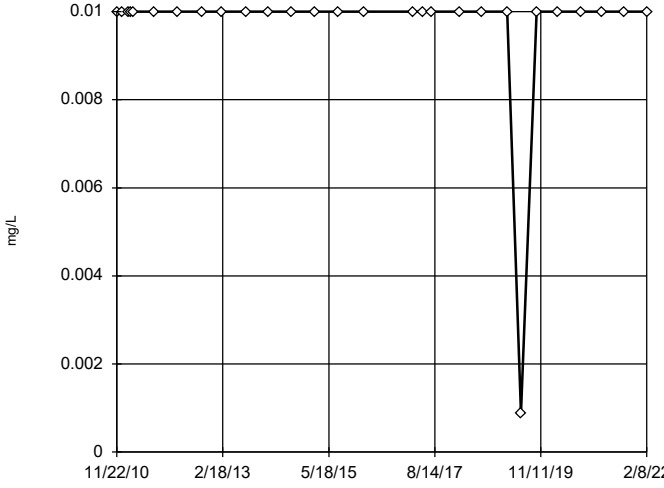
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 28

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

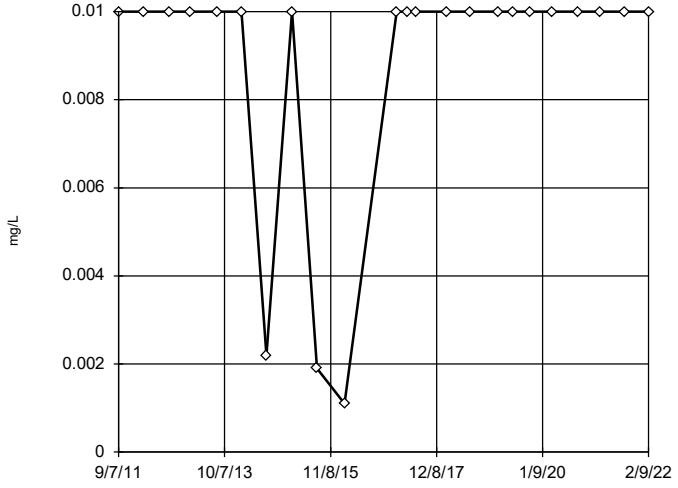
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 23

No outliers found. Tukey's method selected by user.

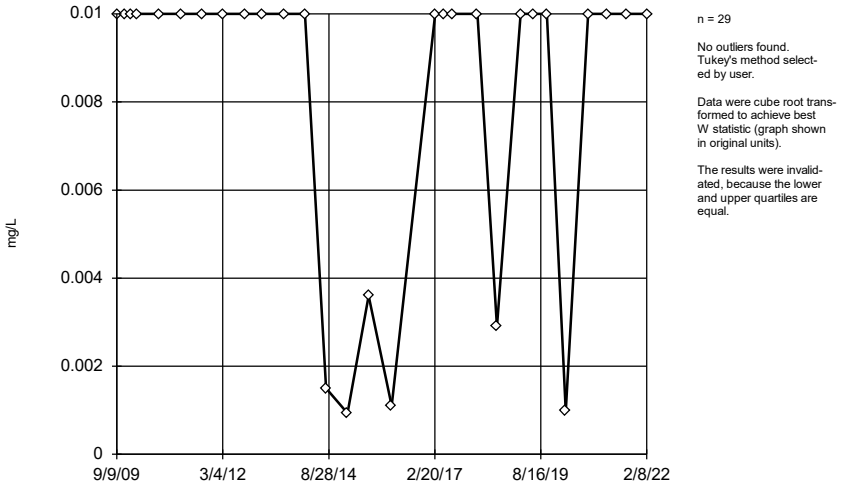
Data were natural log transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-6R



n = 29

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

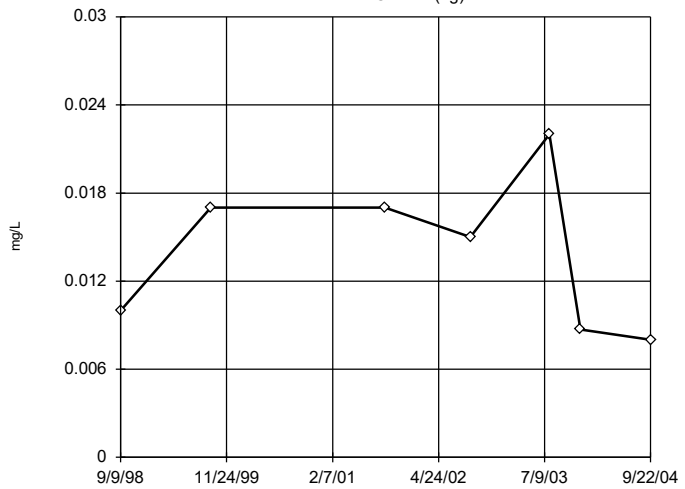
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-1 (bg)



n = 7

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

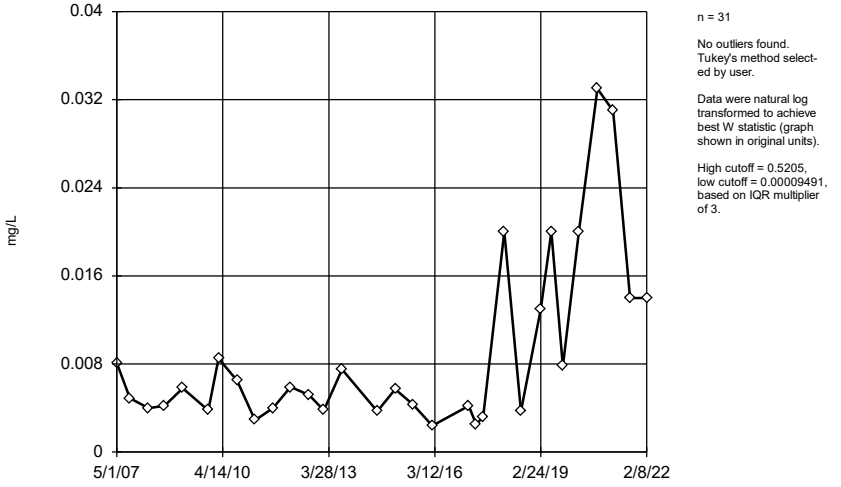
High cutoff = 0.0419, low cutoff = -0.0162, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWA-2 (bg)



n = 31

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

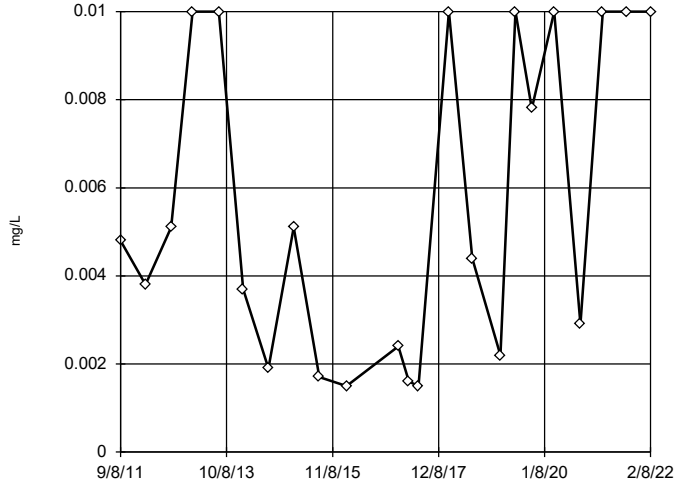
High cutoff = 0.5205, low cutoff = 0.00009491, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-1R



n = 23

No outliers found. Tukey's method selected by user.

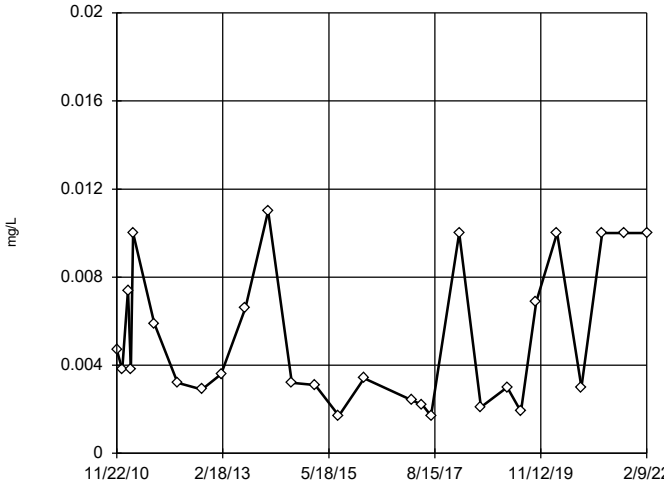
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.9391, low cutoff = 0.00002343, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWC-2R



n = 28

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2134, low cutoff = 0.0001189, based on IQR multiplier of 3.

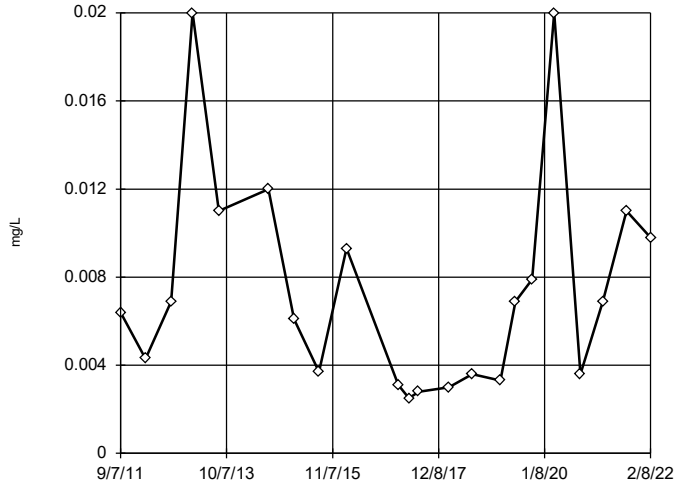
Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-3R



n = 22

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2838, low cutoff = 0.0001261, based on IQR multiplier of 3.

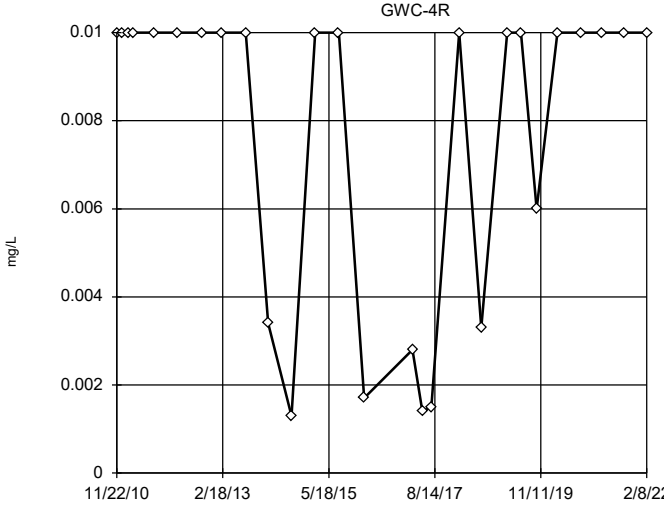
Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-4R



n = 27

No outliers found. Tukey's method selected by user.

Data were cube root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.06926, low cutoff = -0.00009023, based on IQR multiplier of 3.

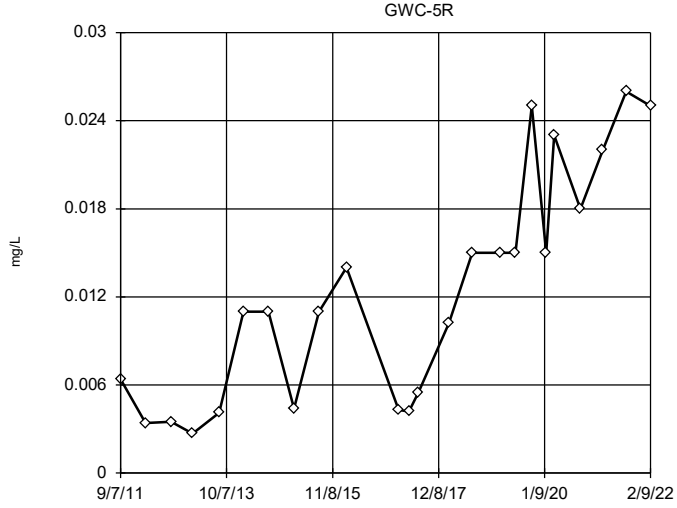
Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening

GWC-5R



n = 24

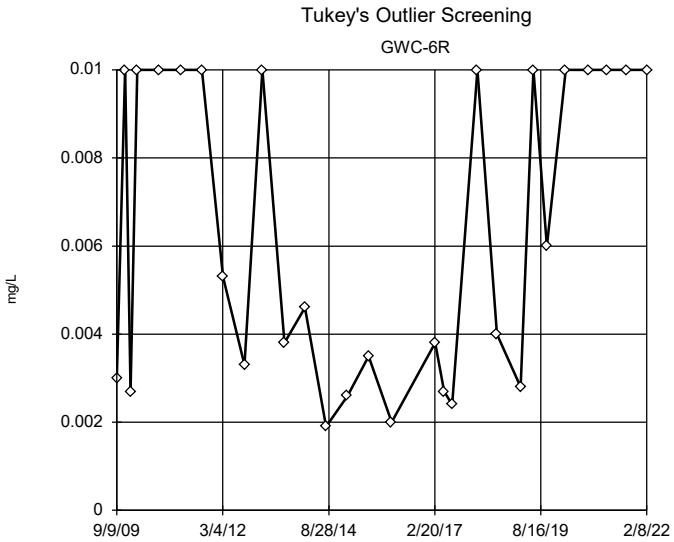
No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.09949, low cutoff = -0.01468, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



n = 29

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.4108, low cutoff = 0.00007056, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 2:44 PM View: Outlier Testing - Intrawell Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Outlier Analysis (Upgradient Wells) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 3:15 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	**GWA-1,GWA-2,YGWA-...**	**Yes**	**0.03,0.03,0.032,0.032,0.032,0.041,0.053,0.05,0.06**	**NP**	**4080**	**0.0169**	**0.01441**	**x^6**	**ChiSquared**
Boron (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**0.053,0.095,0.13,0.156,0.15,0.146,0.12,0.12,0.16,**	**NP**	**3310**	**0.03002**	**0.02421**	**x^6**	**ChiSquared**
Calcium (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**28.3,24.3,31,31,34.2,26.5,25.6,25.6,25.6,25.6,23.**	**NP**	**33**	**110.14**	**10.02**	**x^5**	**ChiSquared**
Chloride (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**6.6,6.6,6.6,7.1,7.1,8.5,10.9,6.8,6.8,6.8,6.8,6.8,**	**NP**	**3313**	**.518**	**2.088**	**x^5**	**ChiSquared**
Combined Radium 226 + 228 (pCi/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**1.58,1.58,1.58,1.58,1.75,1.83,1.83,2.8,2.8,1.73,1**	**NP**	**3611**	**.133**	**1.089**	**x^6**	**ChiSquared**
Molybdenum (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**0.0007,0.0008,0.0039,0.0039,0.004,0.004,0.004,0.0**	**NP**	**3440**	**.008684**	**0.002746**	**ln(x)**	**ChiSquared**
Sulfate (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**29,36,43,60,63,62,64.6,42.1,42.1,83.4,128,98.6,14**	**NP**	**33**	**114.88**	**26.53**	**x^6**	**ChiSquared**
TDS (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**209,185,185,218,226,276,281,296,254,283,191,223,2**	**NP**	**331**	**107.9**	**54.28**	**x^6**	**ChiSquared**

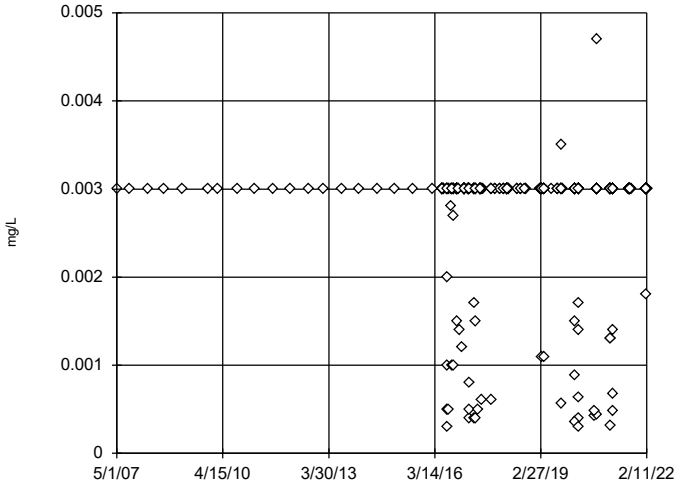
Outlier Analysis (Upgradient Wells) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 3:15 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GWA-2,YGWA-14S,YG...	n/a	n/a	NP	35	30.002759	0.0007067	unknown	ChiSquared
Arsenic (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	40	80.004182	0.001519	unknown	ChiSquared
Barium (mg/L)	**GWA-1,GWA-2,YGWA-...**	**Yes**	**0.03,0.03,0.032,0.032,0.032,0.041,0.053,0.05,0.06**	**NP**	**40**	**80.0169**	**0.01441**	**x^6**	**ChiSquared**
Beryllium (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	39	20.0004291	0.0001481	unknown	ChiSquared
Boron (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**0.053,0.095,0.13,0.156,0.15,0.146,0.12,0.12,0.16,**	**NP**	**33**	**10.03002**	**0.02421**	**x^6**	**ChiSquared**
Cadmium (mg/L)	GWA-2,YGWA-14S,YG...	n/a	n/a	NP	38	50.0004864	0.00007217	unknown	ChiSquared
Calcium (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**28.3,24.3,31,31,34.2,26.5,25.6,25.6,25.6,25.6,23.**	**NP**	**33**	**110.14**	**10.02**	**x^5**	**ChiSquared**
Chloride (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**6.6,6.6,6.6,7.1,7.1,8.5,10.9,6.8,6.8,6.8,6.8,6.8,**	**NP**	**33**	**13.518**	**2.088**	**x^5**	**ChiSquared**
Chromium (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	36	00.004286	0.001659	unknown	ChiSquared
Cobalt (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	40	40.005482	0.005368	unknown	ChiSquared
Combined Radium 226 + 228 (pCi/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**1.58,1.58,1.58,1.58,1.75,1.83,1.83,2.8,2.8,1.73,1**	**NP**	**36**	**11.133**	**1.089**	**x^6**	**ChiSquared**
Copper (mg/L)	GWA-1,GWA-2	No	n/a	NP	37	0.0122	0.01094	ln(x)	ShapiroWilk
Fluoride (mg/L)	GWA-2,YGWA-14S,YG...	n/a	n/a	NP	40	00.1181	0.09327	unknown	ChiSquared
Lead (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	36	20.0009324	0.0008682	unknown	ChiSquared
Lithium (mg/L)	GWA-2,YGWA-14S,YG...	No	n/a	NP	38	00.01304	0.01133	x^6	ChiSquared
Mercury (mg/L)	GWA-2,YGWA-14S,YG...	n/a	n/a	NP	30	90.0001913	0.00003291	unknown	ChiSquared
Molybdenum (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**0.0007,0.0008,0.0039,0.0039,0.004,0.004,0.004,0.0**	**NP**	**34**	**40.008684**	**0.002746**	**ln(x)**	**ChiSquared**
Nickel (mg/L)	GWA-1,GWA-2	No	n/a	NP	37	0.00847	0.007066	ln(x)	ShapiroWilk
pH (S.U.)	GWA-2,YGWA-14S,YG...	No	n/a	NP	41	16.24	0.8027	x^6	ChiSquared
Selenium (mg/L)	GWA-1,GWA-2,YGWA-...	n/a	n/a	NP	39	00.004772	0.001038	unknown	ChiSquared
Silver (mg/L)	GWA-2 (bg)	n/a	n/a	NP	30	0.005	0	unknown	ShapiroWilk
Sulfate (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**29,36,43,60,63,62,64.6,42.1,42.1,83.4,128,98.6,14**	**NP**	**33**	**14.88**	**26.53**	**x^6**	**ChiSquared**
TDS (mg/L)	**GWA-2,YGWA-14S,YG...**	**Yes**	**209,185,185,218,226,276,281,296,254,283,191,223,2**	**NP**	**33**	**107.9**	**54.28**	**x^6**	**ChiSquared**
Thallium (mg/L)	GWA-2,YGWA-14S,YG...	n/a	n/a	NP	31	90.0009711	0.0001608	unknown	ChiSquared
Vanadium (mg/L)	GWA-2 (bg)	n/a	n/a	NP	32	0.008966	0.002504	unknown	ShapiroWilk
Zinc (mg/L)	GWA-1,GWA-2	No	n/a	NP	38	0.009139	0.007206	ln(x)	ShapiroWilk

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 353

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

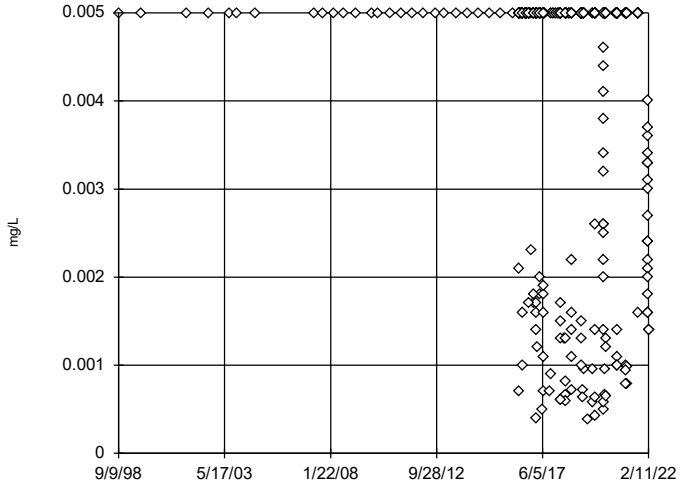
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 3/16/2022 3:12 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 408

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

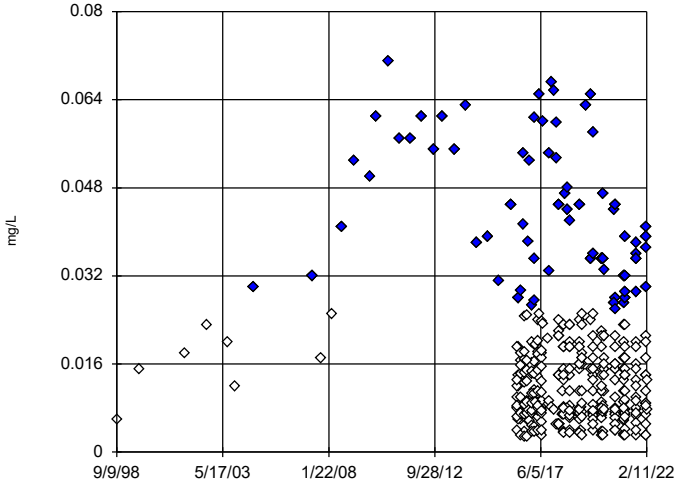
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 3/16/2022 3:12 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 408

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

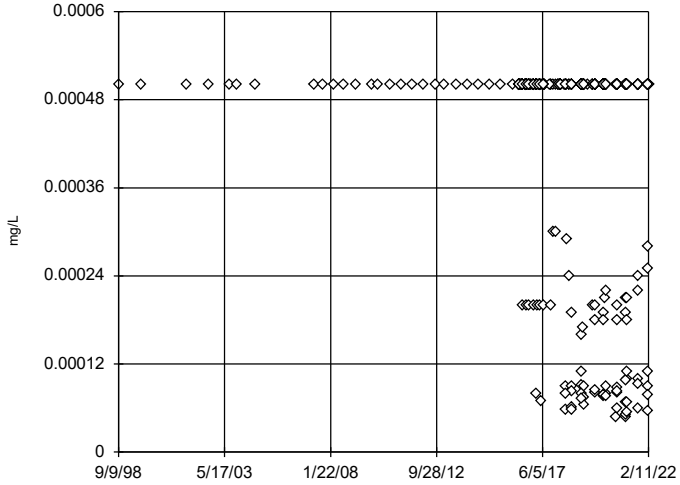
High cutoff = 0.02519, low cutoff = -0.02401, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 3/16/2022 3:12 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 392

No outliers found.
Tukey's method selected by user.

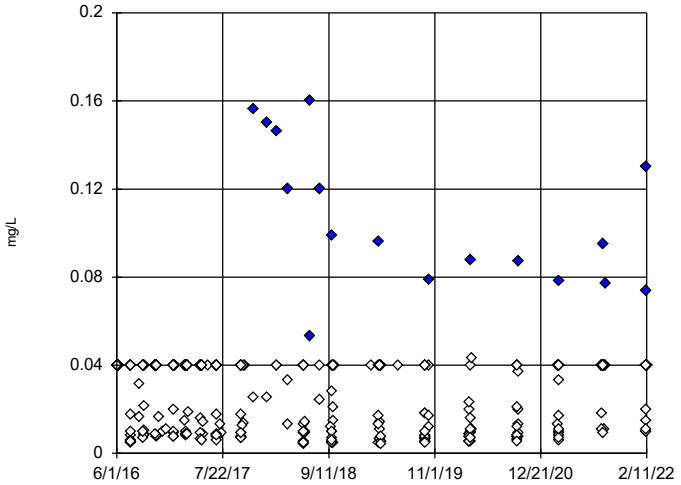
Data were square transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 3/16/2022 3:12 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 331

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

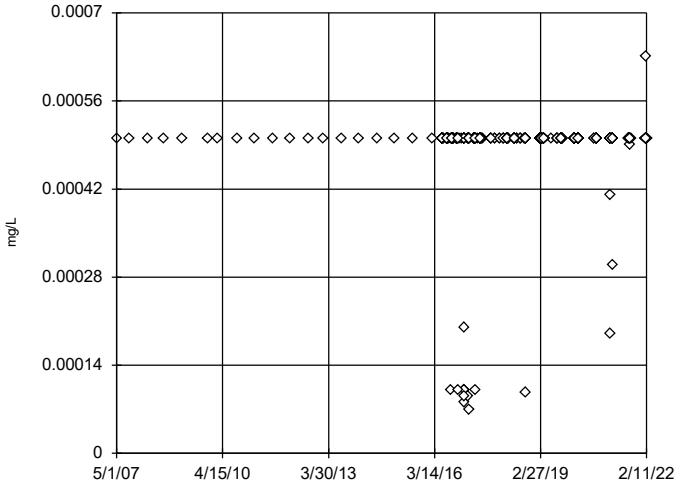
High cutoff = 0.0504, low cutoff = -0.04804, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 385

No outliers found.
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

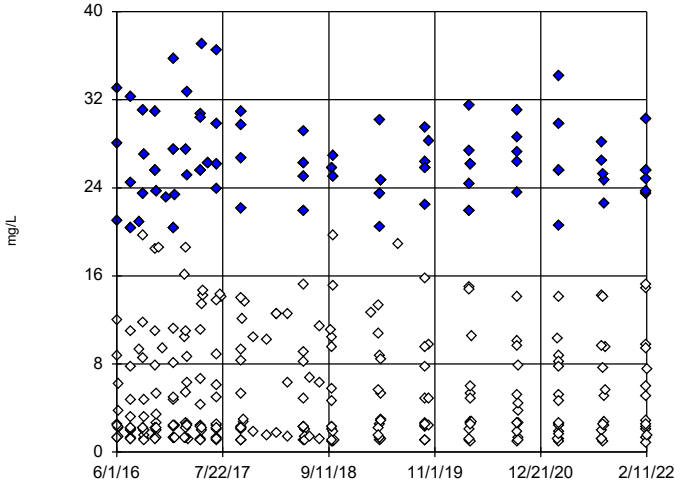
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 331

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

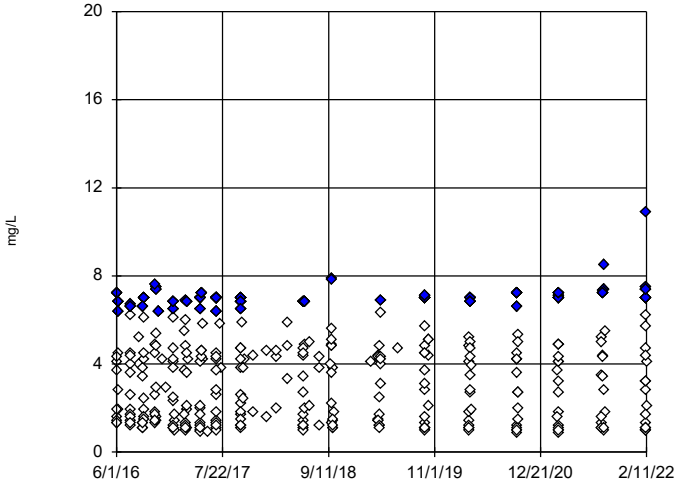
High cutoff = 20.06, low cutoff = -18.93, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 331

Outliers are drawn as solid.
Tukey's method selected by user.

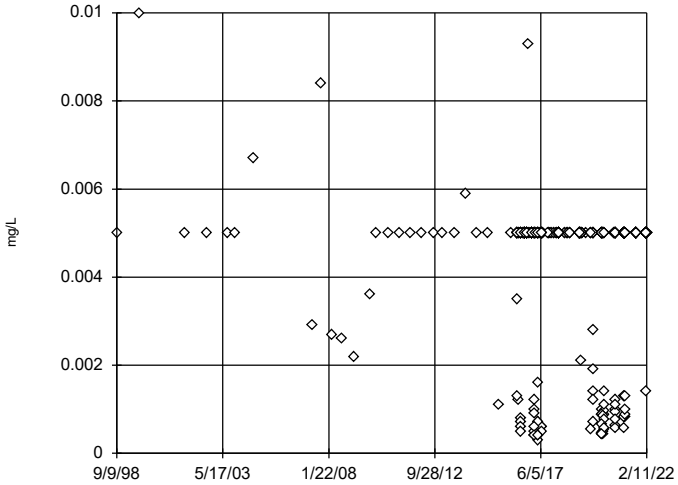
Data were x^5 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.332, low cutoff = -5.976, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 360

No outliers found.
Tukey's method selected by user.

Data were x^4 transformed to achieve best W statistic (graph shown in original units).

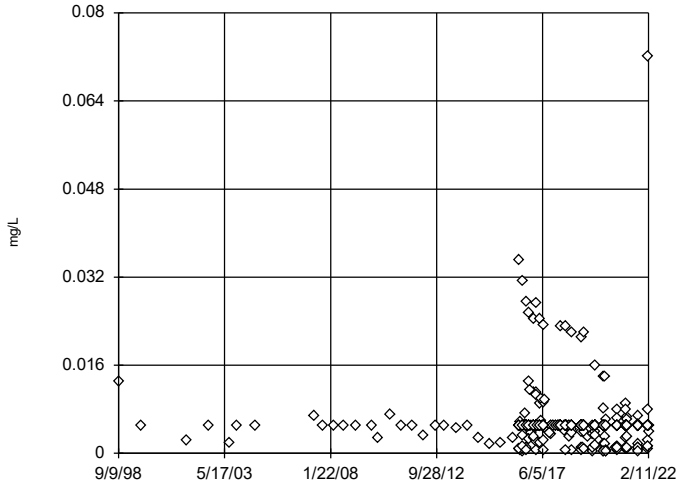
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 404

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

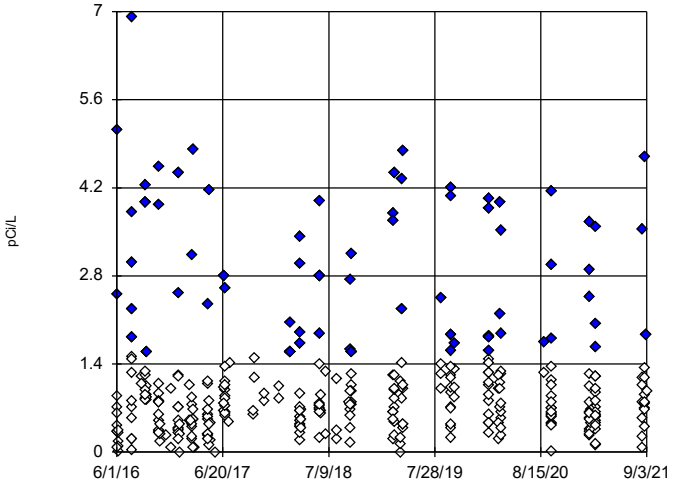
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 361

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

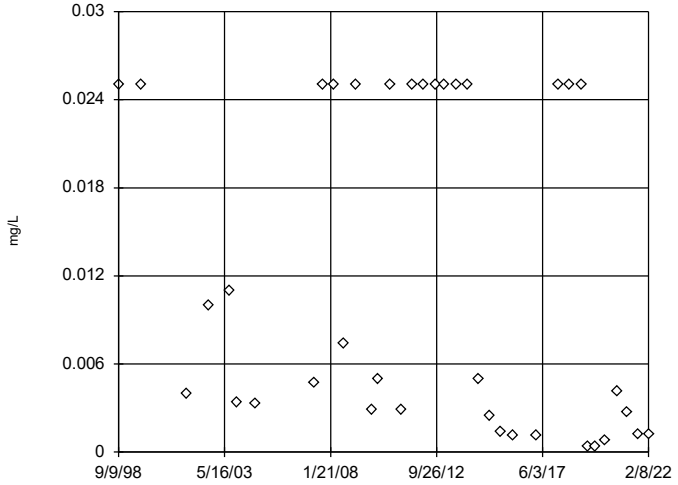
High cutoff = 1.568, low cutoff = -1.494, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2



n = 37

No outliers found.
Tukey's method selected by user.

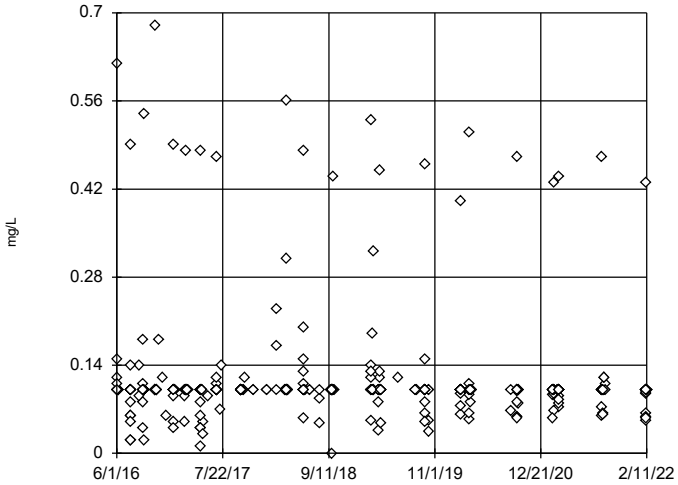
Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 22.27, low cutoff = 0.000002916, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 400

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

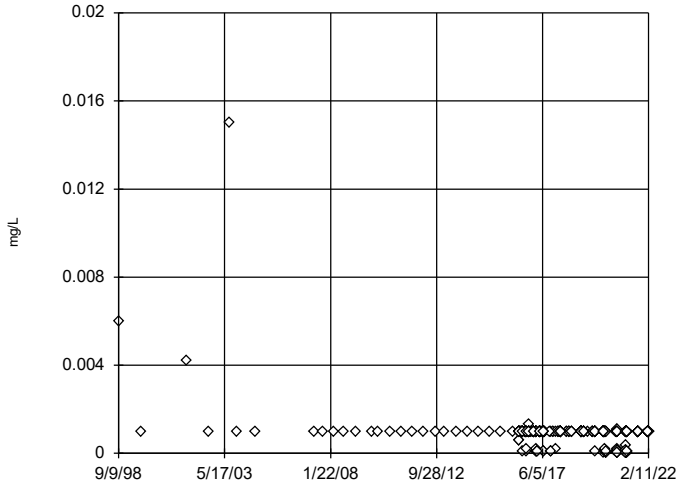
Constituent: Fluoride Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 362

No outliers found. Tukey's method selected by user.

Data were x^5 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

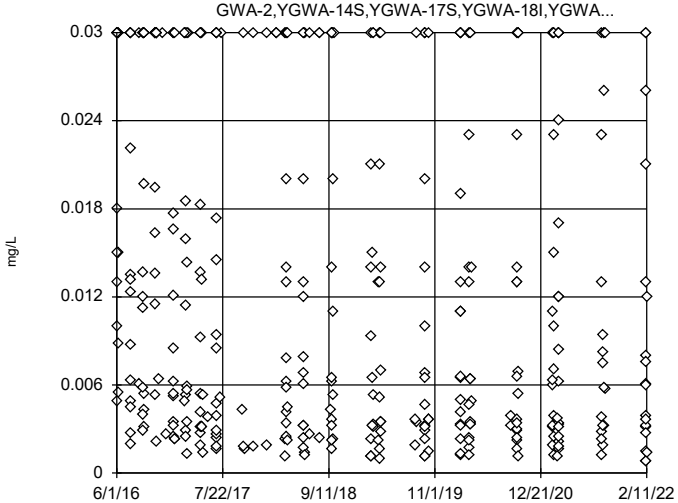
Constituent: Lead Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 380

No outliers found. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.0378, low cutoff = -0.03603, based on IQR multiplier of 3.

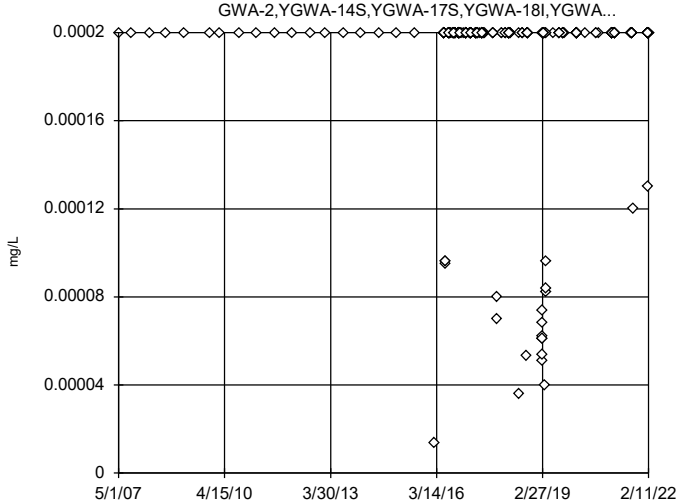
Constituent: Lithium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 309

No outliers found. Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

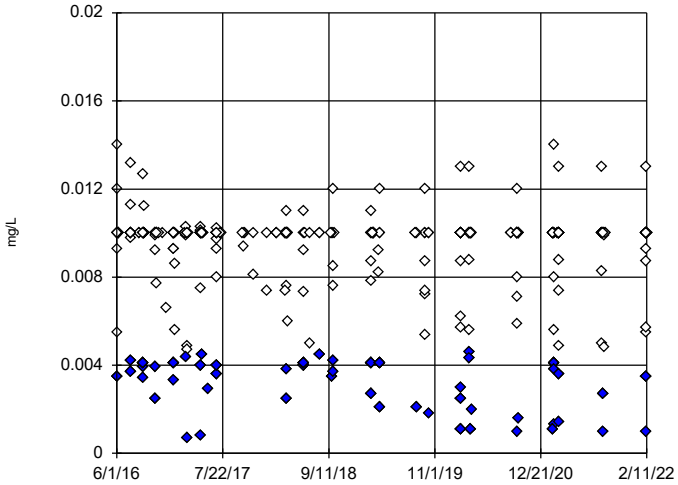
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 344

Outliers are drawn as solid.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

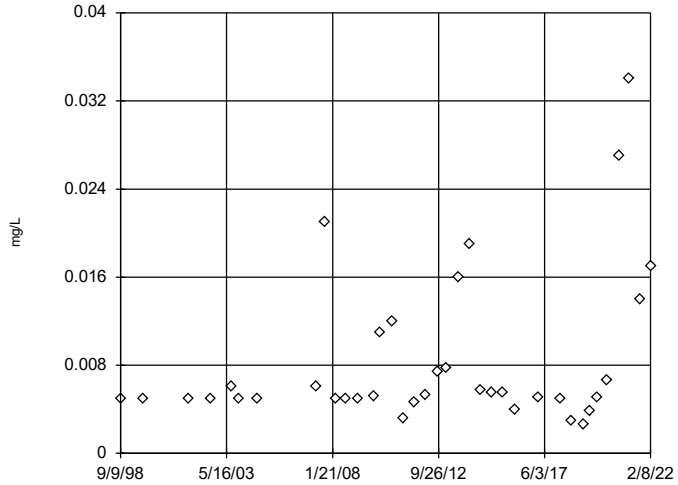
High cutoff = 0.01781, low cutoff = 0.004632, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2



n = 37

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

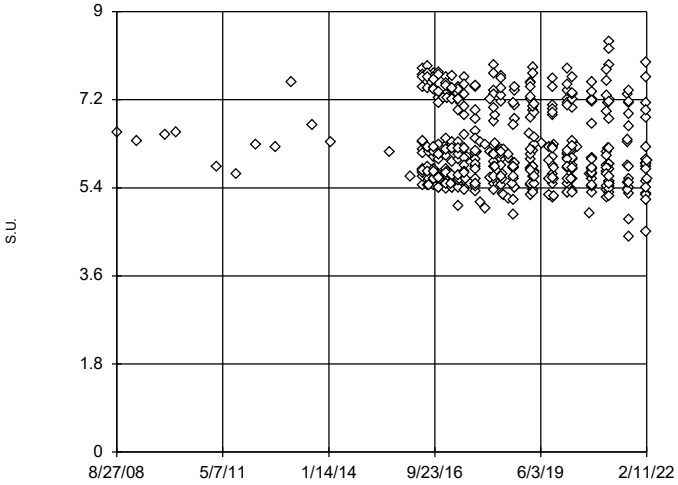
High cutoff = 0.05739, low cutoff = 0.0008018, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 411

No outliers found.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

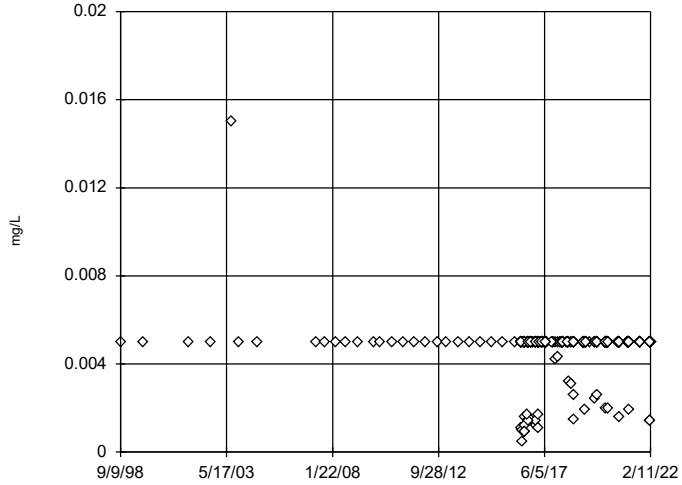
High cutoff = 8.488, low cutoff = -7.808, based on IQR multiplier of 3.

Constituent: pH Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2,YGWA-14S,YGWA-17S,YGWA-18...



n = 390

No outliers found.
Tukey's method selected by user.

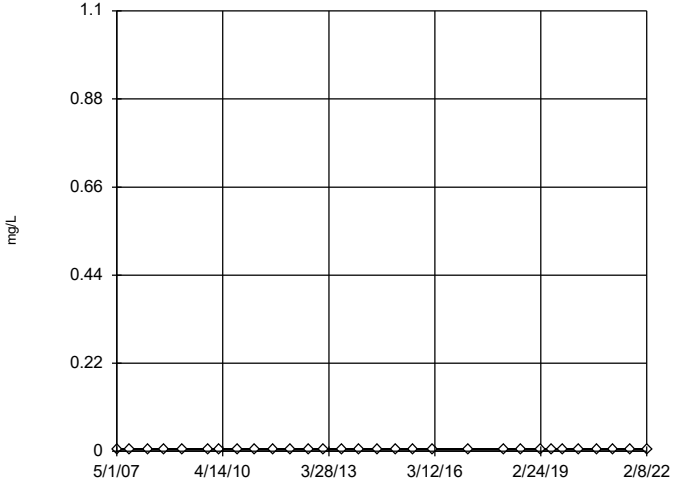
Data were x^5 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 30

No outliers found.
Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

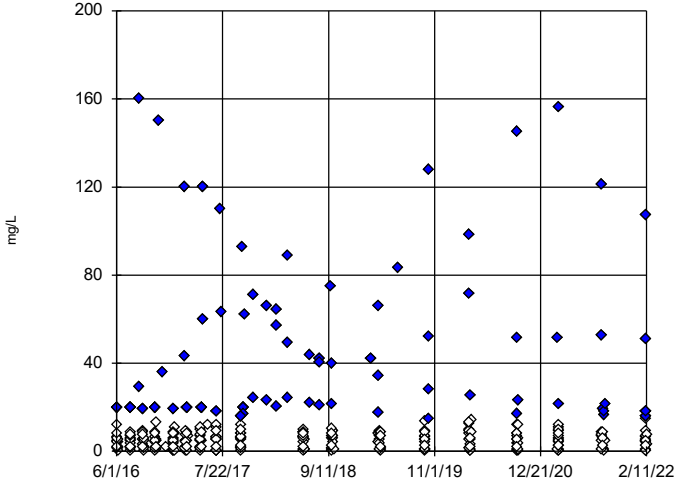
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Silver Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 331

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

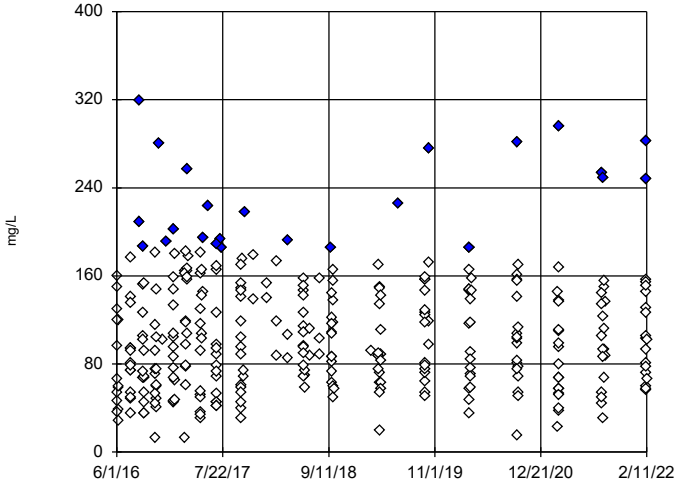
High cutoff = 14.87, low cutoff = -14.17, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 331

Outliers are drawn as solid.
Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

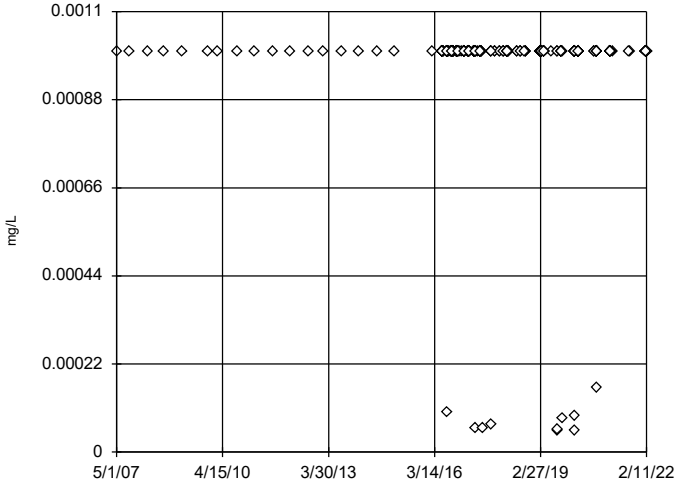
High cutoff = 183.7, low cutoff = -175, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-2,YGWA-14S,YGWA-17S,YGWA-18I,YGWA...



n = 319

No outliers found.
Tukey's method selected by user.

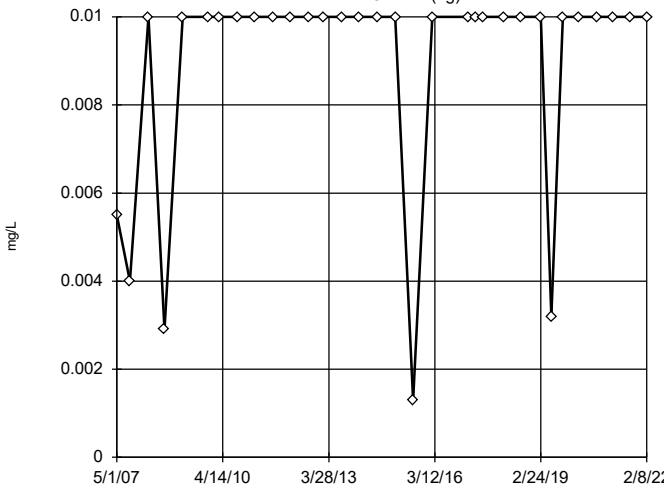
Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tukey's Outlier Screening

GWA-2 (bg)



n = 32

No outliers found. Tukey's method selected by user.

Data were square root transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

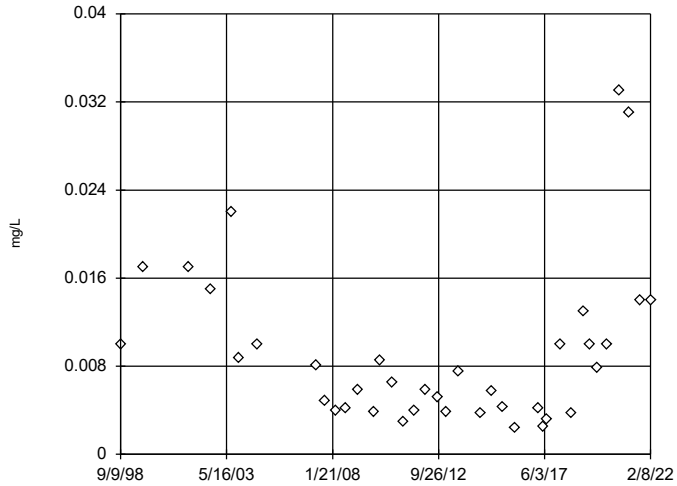
Constituent: Vanadium Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Tukey's Outlier Screening, Pooled Background

GWA-1,GWA-2



n = 38

No outliers found. Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.2641, low cutoff = 0.0001727, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 3/16/2022 3:13 PM View: Outlier Testing - Pooled Upgradient

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE D.

Mann-Whitney Summary Appendix I & II - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Arsenic (mg/L)	**GWC-3R**	**-3.454**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	**GWC-5R**	**-3.275**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-2R**	**-3.545**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-3R**	**-2.782**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-5R**	**-3.946**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	**GWC-2R**	**-4.492**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	**GWC-4R**	**-2.9**	**Yes**	**Yes**	**Mann-W**
Cadmium (mg/L)	**GWC-3R**	**-4.126**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-1R**	**-2.771**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-2R**	**-2.642**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-5R**	**-3.453**	**Yes**	**Yes**	**Mann-W**
Copper (mg/L)	**GWA-2 (bg)**	**-2.645**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	**GWC-2R**	**-2.984**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	**GWC-5R**	**-3.851**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	**GWC-4R**	**-3.008**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	**GWC-6R**	**-4.154**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	**GWC-4R**	**-4.121**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	**GWC-6R**	**-3.089**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	**GWA-2 (bg)**	**3.632**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	**GWC-5R**	**3.757**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Antimony (mg/L)	GWA-2 (bg)	-1.829	No	No	Mann-W
Antimony (mg/L)	GWC-2R	-1.668	No	No	Mann-W
Antimony (mg/L)	GWC-4R	-1.657	No	No	Mann-W
Antimony (mg/L)	GWC-5R	-2.095	No	No	Mann-W
Arsenic (mg/L)	GWA-2 (bg)	-2.53	No	No	Mann-W
Arsenic (mg/L)	GWC-1R	-1.802	No	No	Mann-W
Arsenic (mg/L)	GWC-2R	-2.347	No	No	Mann-W
Arsenic (mg/L)	**GWC-3R**	**-3.454**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	GWC-4R	-2.347	No	No	Mann-W
Arsenic (mg/L)	**GWC-5R**	**-3.275**	**Yes**	**Yes**	**Mann-W**
Arsenic (mg/L)	GWC-6R	-2.473	No	No	Mann-W
Barium (mg/L)	GWA-2 (bg)	-0.3657	No	No	Mann-W
Barium (mg/L)	GWC-1R	0.9517	No	No	Mann-W
Barium (mg/L)	**GWC-2R**	**-3.545**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	**GWC-3R**	**-2.782**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	GWC-4R	-0.788	No	No	Mann-W
Barium (mg/L)	**GWC-5R**	**-3.946**	**Yes**	**Yes**	**Mann-W**
Barium (mg/L)	GWC-6R	0.182	No	No	Mann-W
Beryllium (mg/L)	GWC-1R	-1.884	No	No	Mann-W
Beryllium (mg/L)	**GWC-2R**	**-4.492**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	GWC-3R	-0.7009	No	No	Mann-W
Beryllium (mg/L)	**GWC-4R**	**-2.9**	**Yes**	**Yes**	**Mann-W**
Beryllium (mg/L)	GWC-5R	1.635	No	No	Mann-W
Cadmium (mg/L)	GWC-1R	-2.277	No	No	Mann-W
Cadmium (mg/L)	GWC-2R	-2.064	No	No	Mann-W
Cadmium (mg/L)	**GWC-3R**	**-4.126**	**Yes**	**Yes**	**Mann-W**
Cadmium (mg/L)	GWC-4R	0.556	No	No	Mann-W
Cadmium (mg/L)	GWC-5R	1.799	No	No	Mann-W
Chromium (mg/L)	GWA-2 (bg)	0.8784	No	No	Mann-W
Chromium (mg/L)	GWC-1R	-1.7	No	No	Mann-W
Chromium (mg/L)	GWC-2R	-1.923	No	No	Mann-W
Chromium (mg/L)	GWC-3R	-1.697	No	No	Mann-W
Chromium (mg/L)	GWC-4R	-1.015	No	No	Mann-W
Chromium (mg/L)	GWC-5R	-0.9321	No	No	Mann-W
Chromium (mg/L)	GWC-6R	-1.983	No	No	Mann-W
Cobalt (mg/L)	GWA-2 (bg)	-2.121	No	No	Mann-W
Cobalt (mg/L)	**GWC-1R**	**-2.771**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	**GWC-2R**	**-2.642**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	GWC-3R	0.5674	No	No	Mann-W
Cobalt (mg/L)	GWC-4R	-2.352	No	No	Mann-W
Cobalt (mg/L)	**GWC-5R**	**-3.453**	**Yes**	**Yes**	**Mann-W**
Cobalt (mg/L)	GWC-6R	0.5443	No	No	Mann-W
Copper (mg/L)	**GWA-2 (bg)**	**-2.645**	**Yes**	**Yes**	**Mann-W**
Copper (mg/L)	GWC-1R	-2.04	No	No	Mann-W
Copper (mg/L)	GWC-2R	-1.693	No	No	Mann-W
Copper (mg/L)	GWC-3R	-1.146	No	No	Mann-W
Copper (mg/L)	GWC-4R	-1.28	No	No	Mann-W
Copper (mg/L)	GWC-5R	-2.499	No	No	Mann-W
Copper (mg/L)	GWC-6R	-2.318	No	No	Mann-W
Lead (mg/L)	GWA-2 (bg)	-1.796	No	No	Mann-W
Lead (mg/L)	GWC-1R	-2.095	No	No	Mann-W
Lead (mg/L)	**GWC-2R**	**-2.984**	**Yes**	**Yes**	**Mann-W**
Lead (mg/L)	GWC-3R	-2.503	No	No	Mann-W
Lead (mg/L)	GWC-4R	-1.668	No	No	Mann-W
Lead (mg/L)	**GWC-5R**	**-3.851**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix I & II - All Results

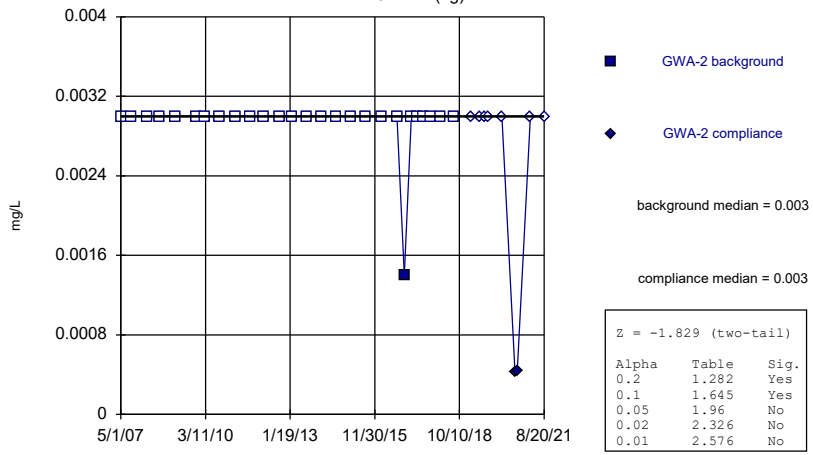
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:30 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Mercury (mg/L)	GWA-2 (bg)	-0.8281	No	No	Mann-W
Mercury (mg/L)	GWC-1R	-1.493	No	No	Mann-W
Mercury (mg/L)	GWC-2R	-1.668	No	No	Mann-W
Mercury (mg/L)	GWC-3R	0.3769	No	No	Mann-W
Mercury (mg/L)	GWC-4R	-0.7989	No	No	Mann-W
Mercury (mg/L)	GWC-5R	-1.493	No	No	Mann-W
Mercury (mg/L)	GWC-6R	-0.7329	No	No	Mann-W
Nickel (mg/L)	GWA-2 (bg)	0.561	No	No	Mann-W
Nickel (mg/L)	GWC-1R	-1.808	No	No	Mann-W
Nickel (mg/L)	GWC-2R	-1.55	No	No	Mann-W
Nickel (mg/L)	GWC-3R	-0.1041	No	No	Mann-W
Nickel (mg/L)	**GWC-4R**	**-3.008**	**Yes**	**Yes**	**Mann-W**
Nickel (mg/L)	GWC-5R	-2.237	No	No	Mann-W
Nickel (mg/L)	**GWC-6R**	**-4.154**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	GWC-1R	0.2455	No	No	Mann-W
Selenium (mg/L)	GWC-2R	-1.926	No	No	Mann-W
Selenium (mg/L)	GWC-3R	-0.6924	No	No	Mann-W
Selenium (mg/L)	**GWC-4R**	**-4.121**	**Yes**	**Yes**	**Mann-W**
Selenium (mg/L)	GWC-5R	2.212	No	No	Mann-W
Selenium (mg/L)	**GWC-6R**	**-3.089**	**Yes**	**Yes**	**Mann-W**
Silver (mg/L)	GWC-5R	-1.468	No	No	Mann-W
Thallium (mg/L)	GWA-2 (bg)	-0.1025	No	No	Mann-W
Thallium (mg/L)	GWC-2R	0.5819	No	No	Mann-W
Thallium (mg/L)	GWC-5R	-1.455	No	No	Mann-W
Vanadium (mg/L)	GWA-2 (bg)	0.1106	No	No	Mann-W
Vanadium (mg/L)	GWC-1R	1.181	No	No	Mann-W
Vanadium (mg/L)	GWC-2R	-1.775	No	No	Mann-W
Vanadium (mg/L)	GWC-3R	-2.19	No	No	Mann-W
Vanadium (mg/L)	GWC-4R	-1.775	No	No	Mann-W
Vanadium (mg/L)	GWC-5R	1.181	No	No	Mann-W
Vanadium (mg/L)	GWC-6R	0.3695	No	No	Mann-W
Zinc (mg/L)	**GWA-2 (bg)**	**3.632**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	GWC-1R	1.72	No	No	Mann-W
Zinc (mg/L)	GWC-2R	0.7497	No	No	Mann-W
Zinc (mg/L)	GWC-3R	0.9721	No	No	Mann-W
Zinc (mg/L)	GWC-4R	1.272	No	No	Mann-W
Zinc (mg/L)	**GWC-5R**	**3.757**	**Yes**	**Yes**	**Mann-W**
Zinc (mg/L)	GWC-6R	1.852	No	No	Mann-W

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = -1.829 (two-tail)

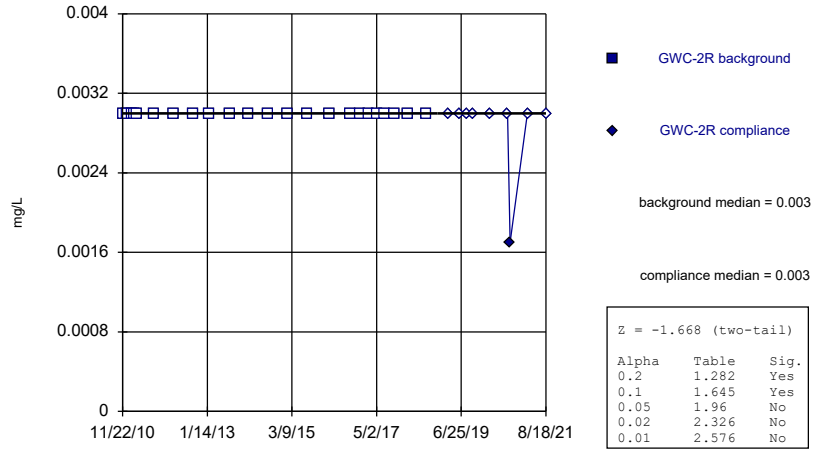
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Antimony Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.668 (two-tail)

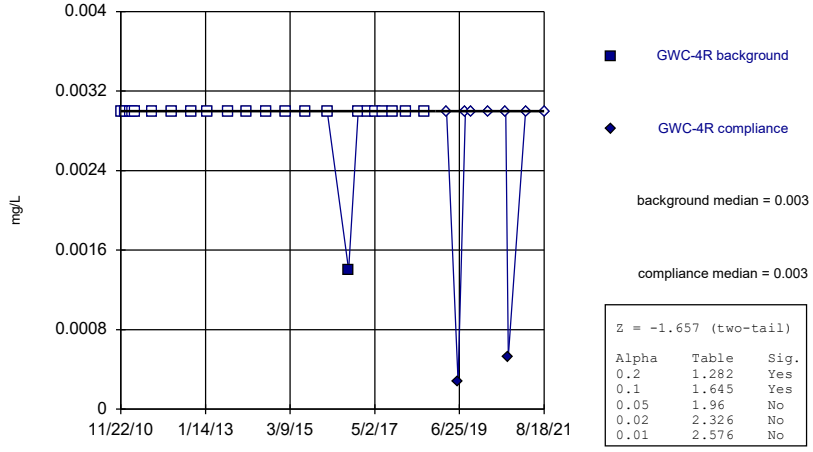
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Antimony Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -1.657 (two-tail)

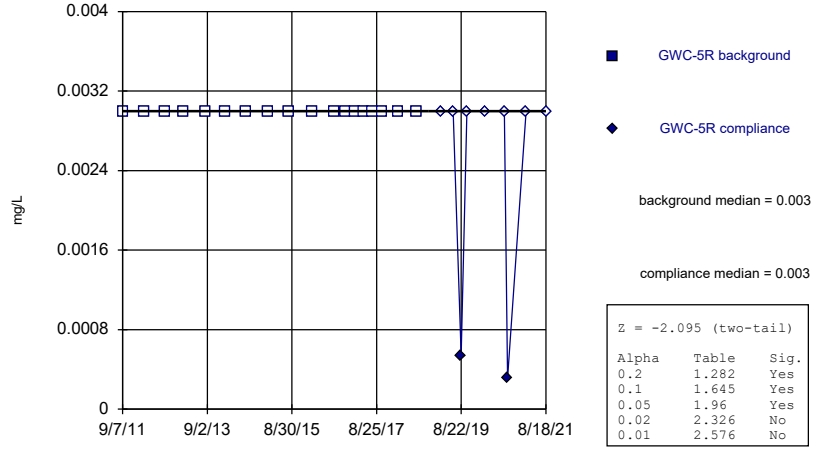
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Antimony Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -2.095 (two-tail)

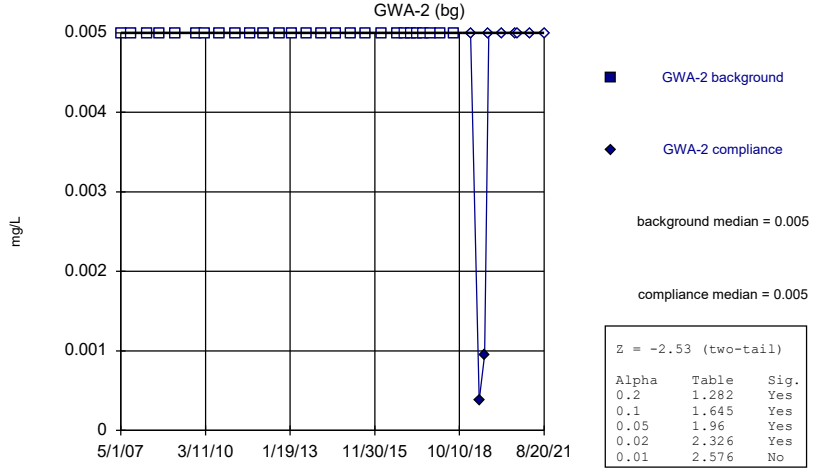
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Antimony Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = -2.53 (two-tail)

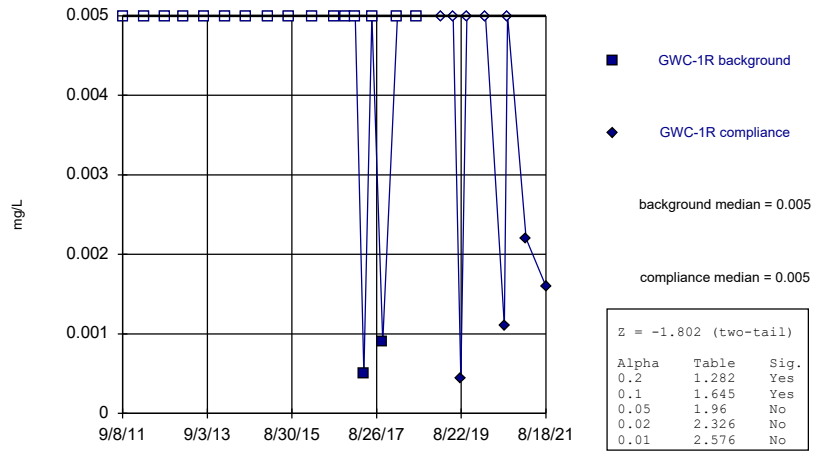
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = -1.802 (two-tail)

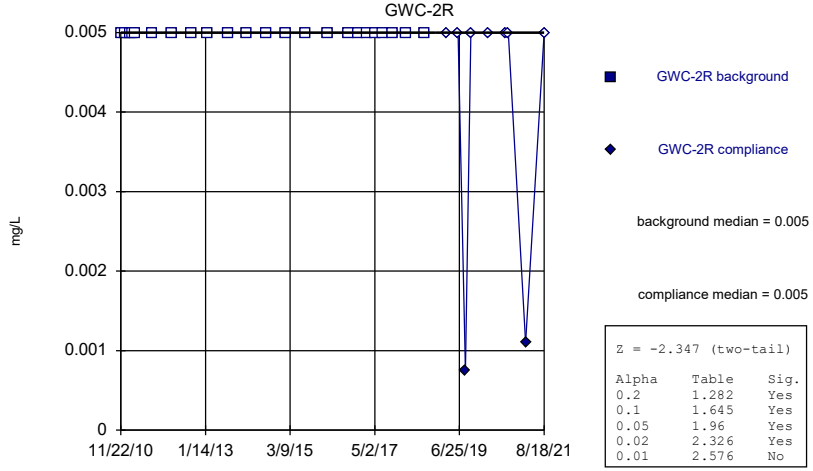
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -2.347 (two-tail)

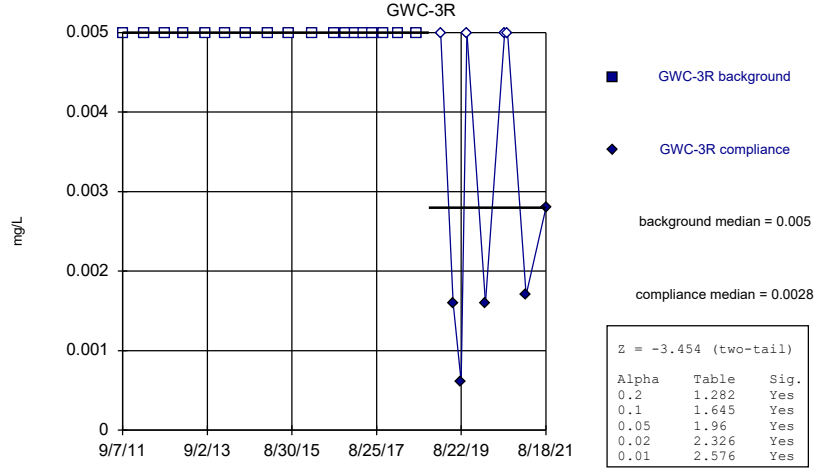
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -3.454 (two-tail)

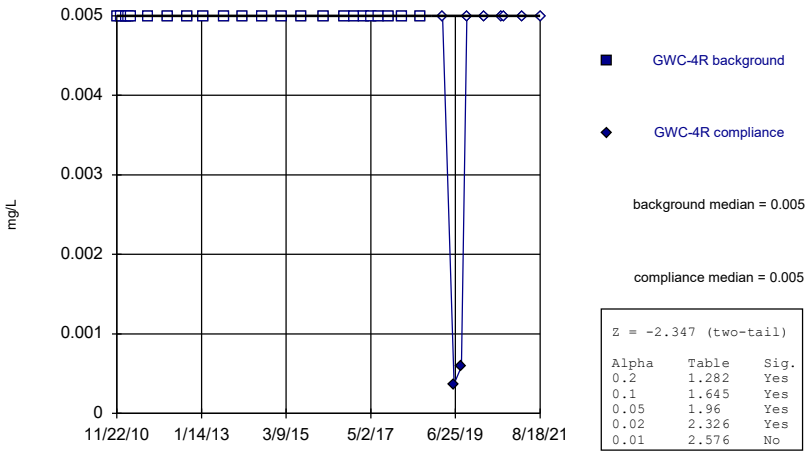
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -2.347 (two-tail)

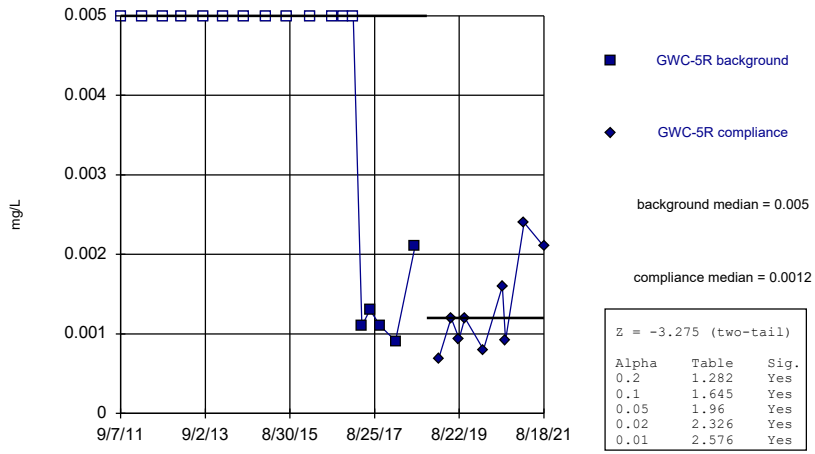
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -3.275 (two-tail)

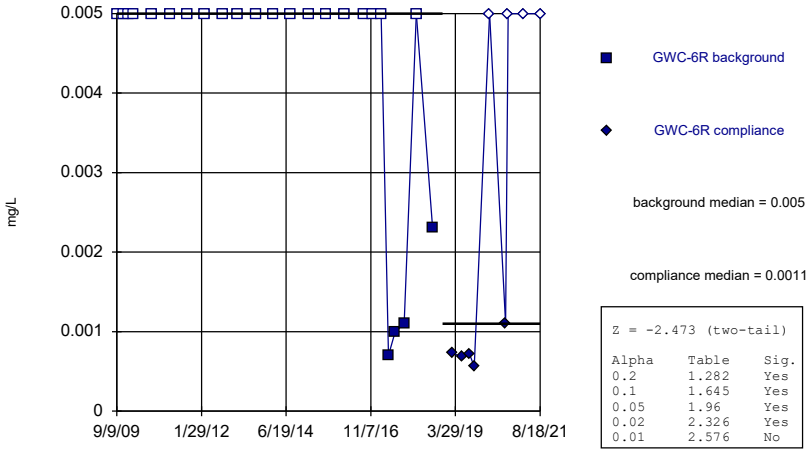
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -2.473 (two-tail)

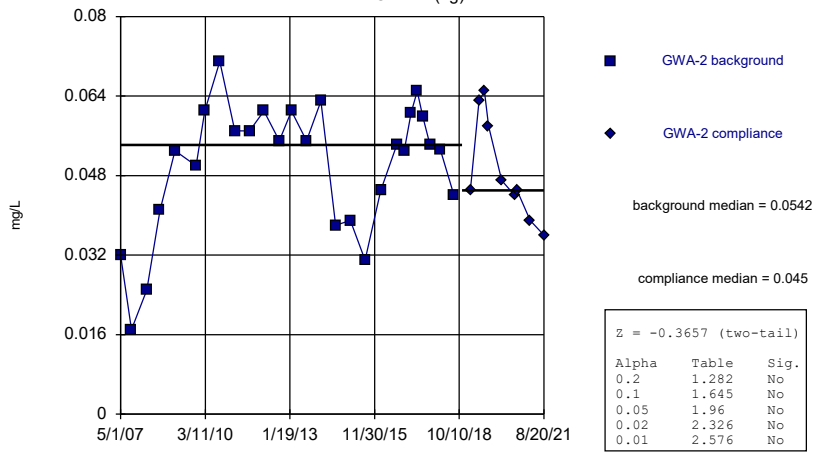
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Arsenic Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



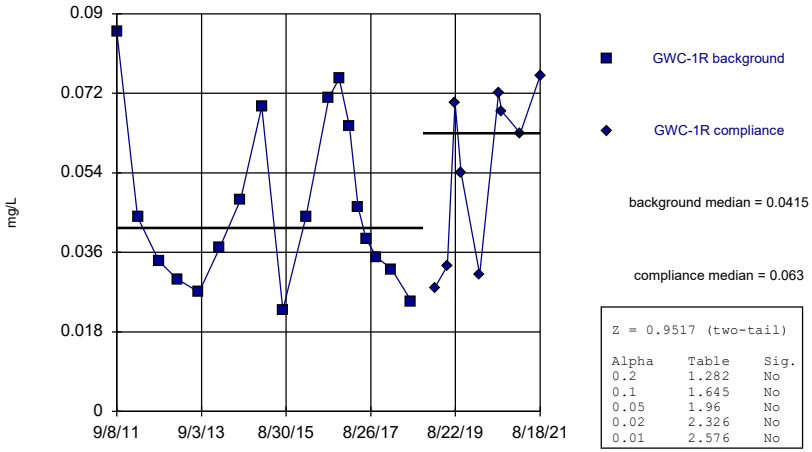
Z = -0.3657 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R

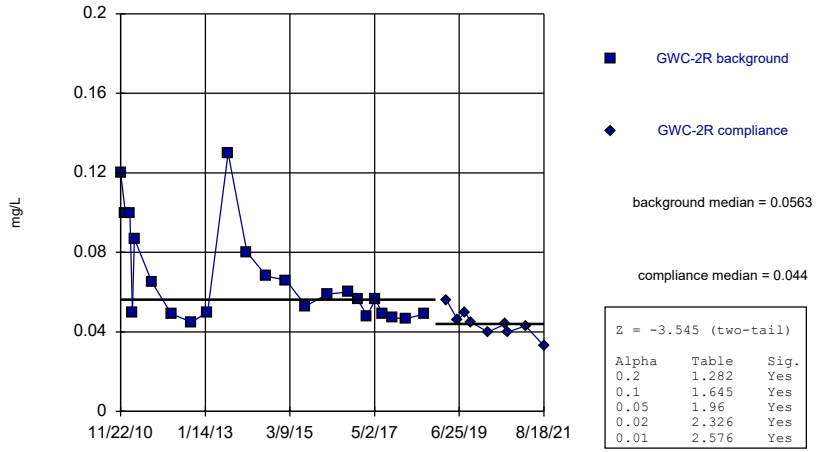


Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R

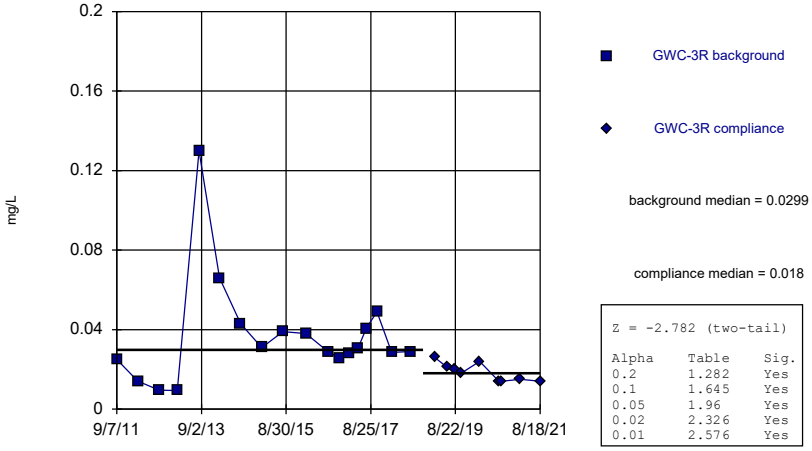


Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R

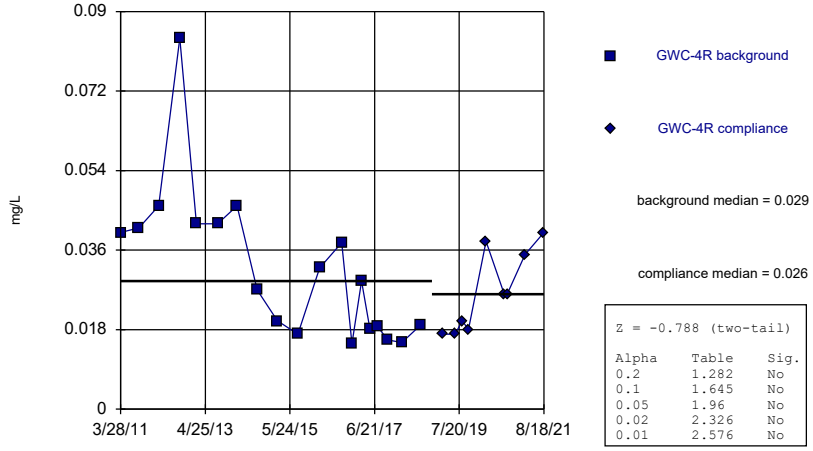


Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

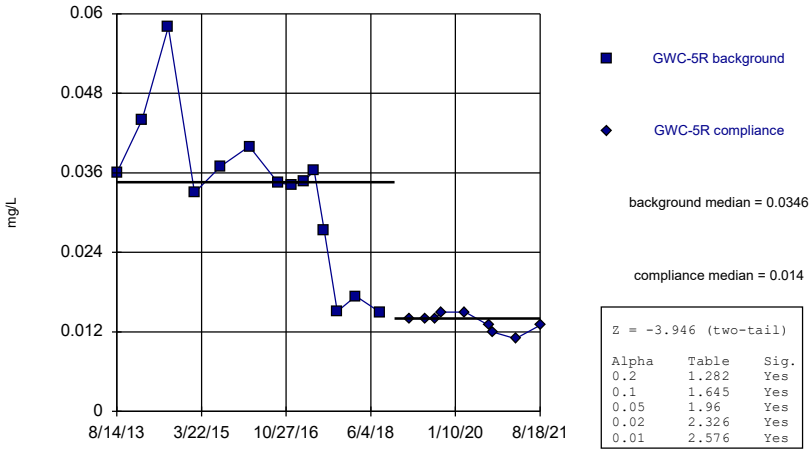
GWC-4R



Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R

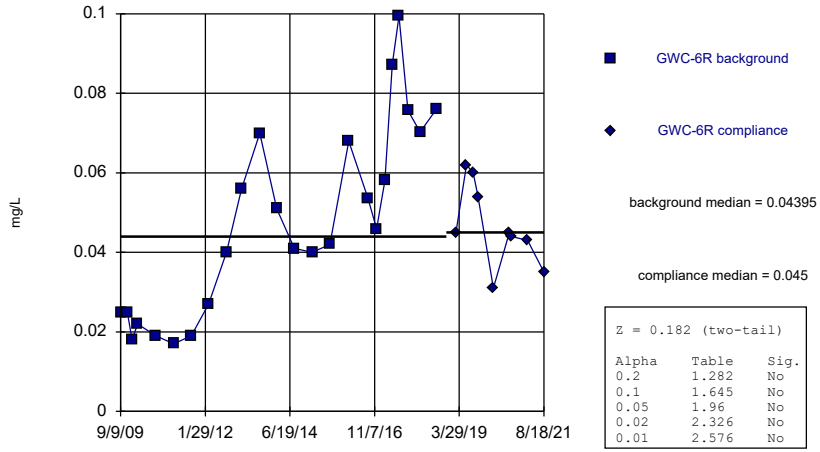


Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R

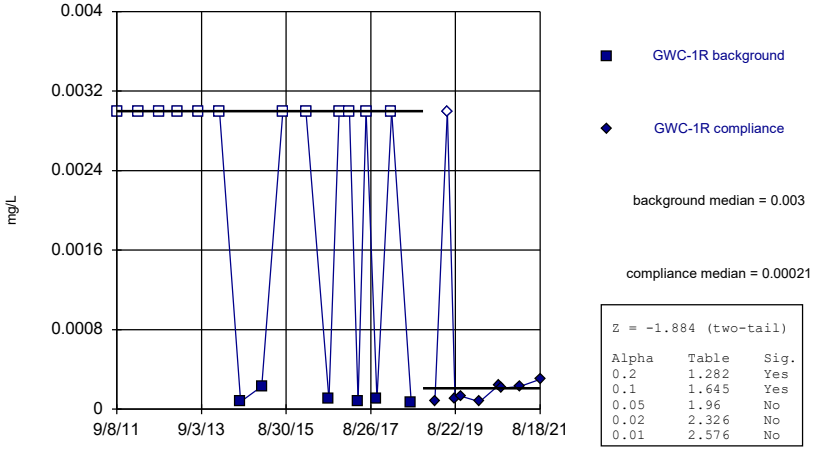


Constituent: Barium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R

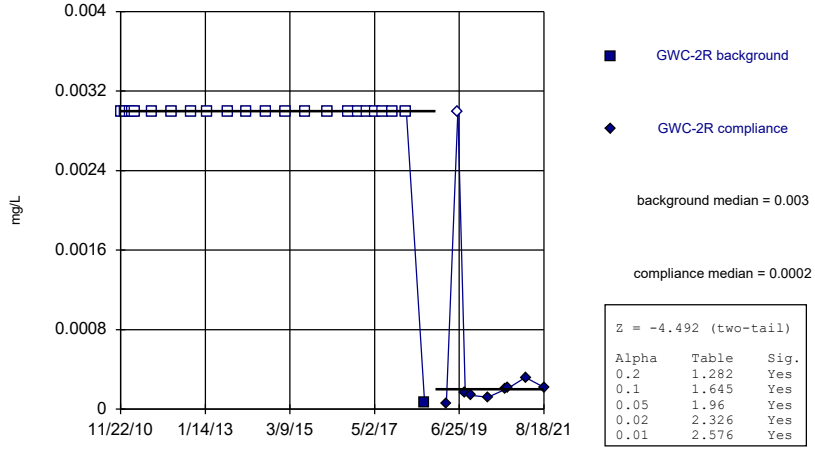


Constituent: Beryllium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R

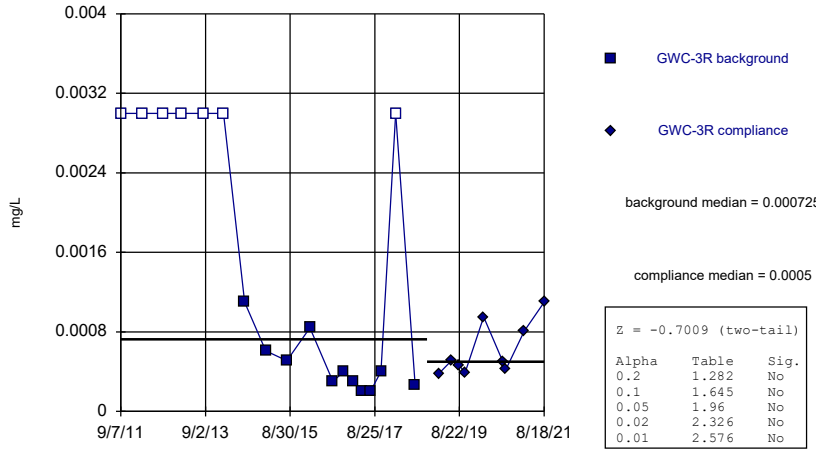


Constituent: Beryllium Analysis Run 3/16/2022 4:22 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



background median = 0.000725

compliance median = 0.0005

Z = -0.7009 (two-tail)

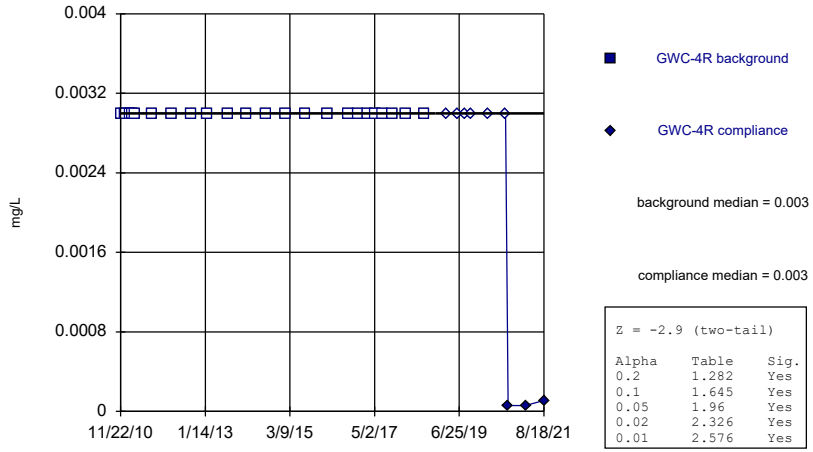
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Beryllium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



background median = 0.003

compliance median = 0.003

Z = -2.9 (two-tail)

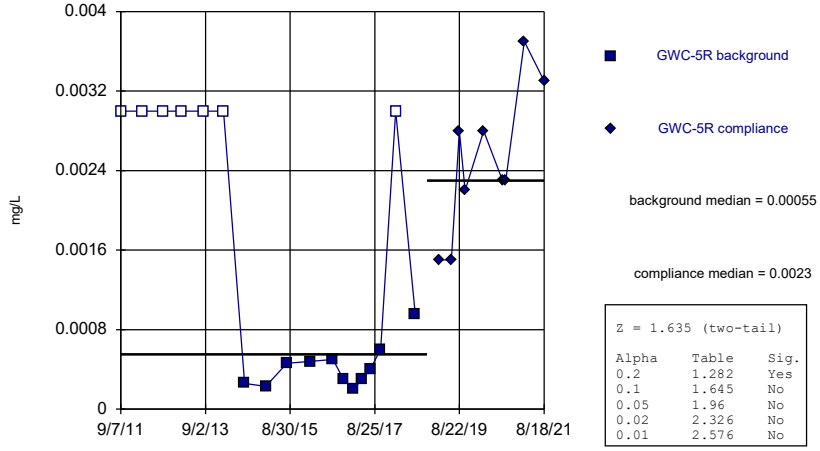
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Beryllium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



background median = 0.00055

compliance median = 0.0023

Z = 1.635 (two-tail)

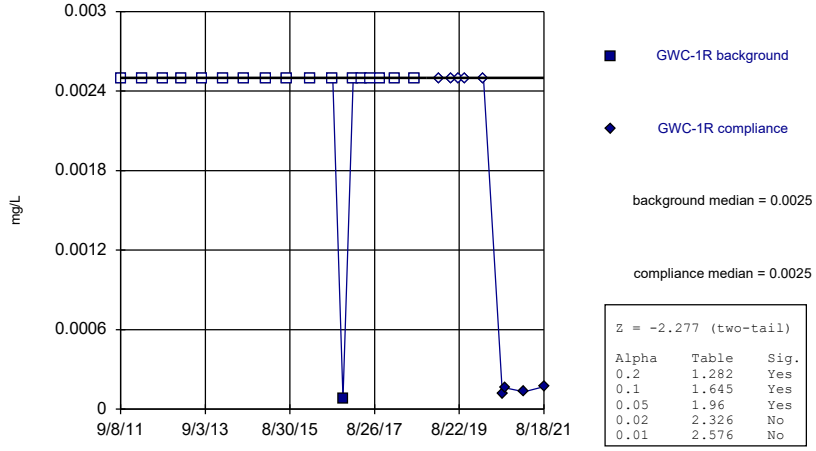
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Beryllium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



background median = 0.0025

compliance median = 0.0025

Z = -2.277 (two-tail)

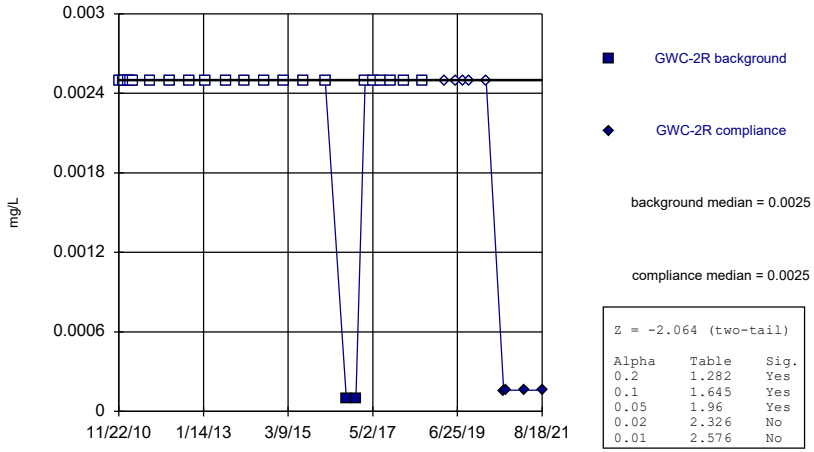
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Cadmium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -2.064 (two-tail)

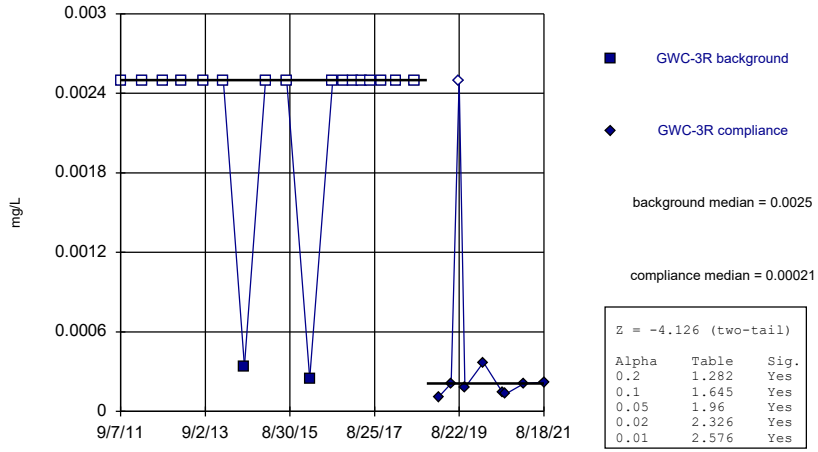
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Cadmium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -4.126 (two-tail)

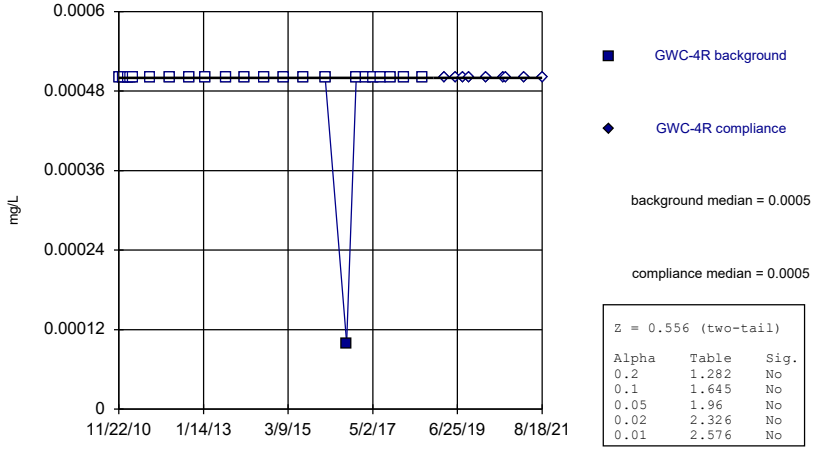
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Cadmium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = 0.556 (two-tail)

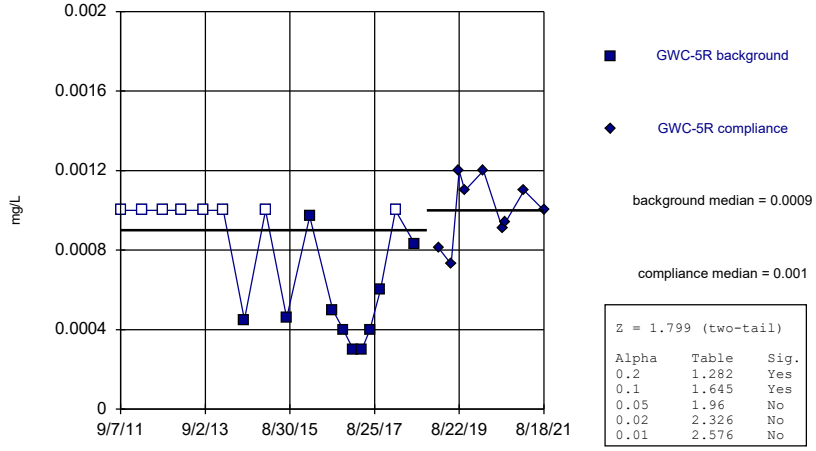
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Cadmium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = 1.799 (two-tail)

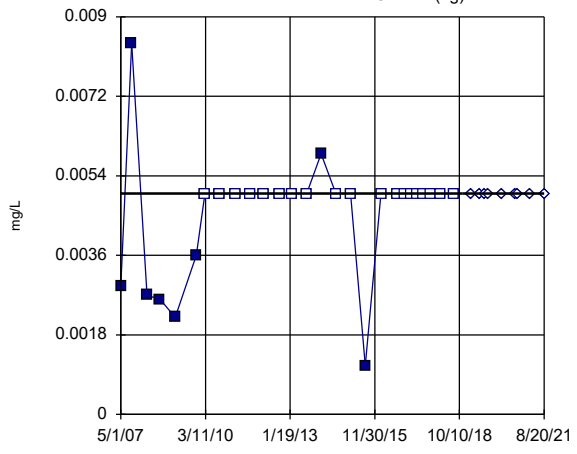
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Cadmium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



GWA-2 background

GWA-2 compliance

background median = 0.005

compliance median = 0.005

Z = 0.8784 (two-tail)

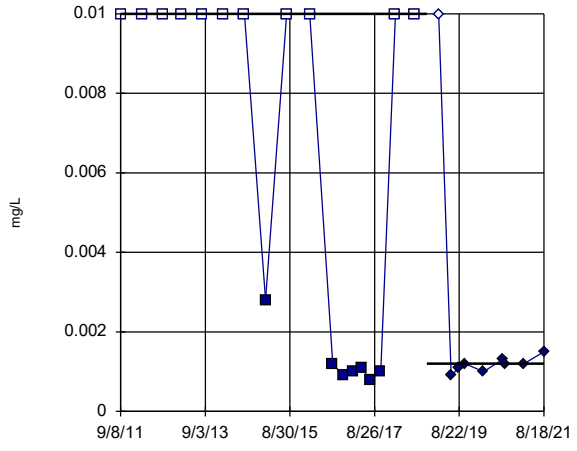
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



GWC-1R background

GWC-1R compliance

background median = 0.01

compliance median = 0.0012

Z = -1.7 (two-tail)

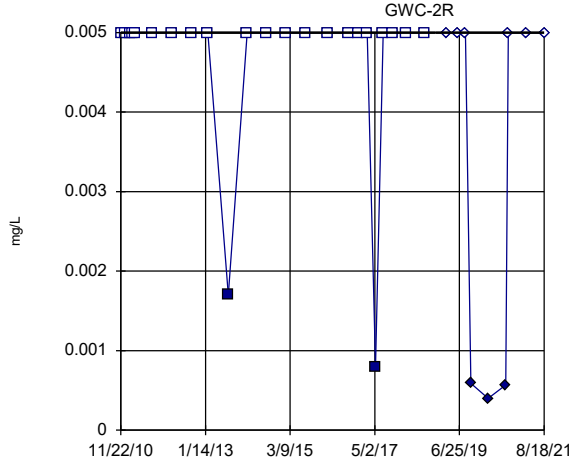
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



GWC-2R background

GWC-2R compliance

background median = 0.005

compliance median = 0.005

Z = -1.923 (two-tail)

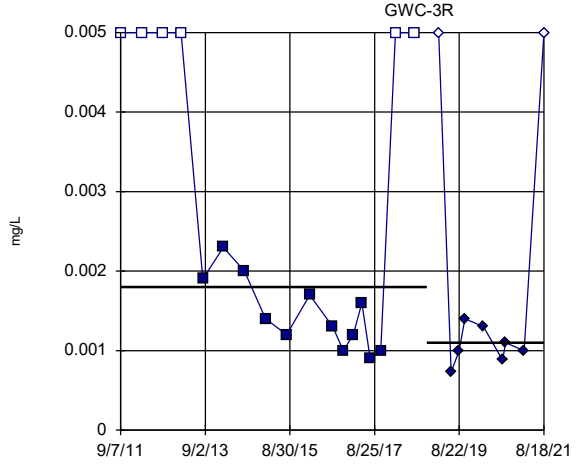
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



GWC-3R background

GWC-3R compliance

background median = 0.0018

compliance median = 0.0011

Z = -1.697 (two-tail)

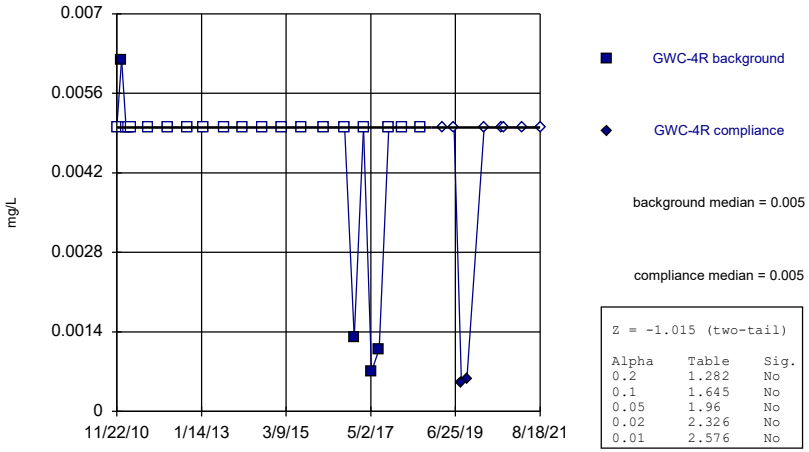
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



background median = 0.005

compliance median = 0.005

Z = -1.015 (two-tail)

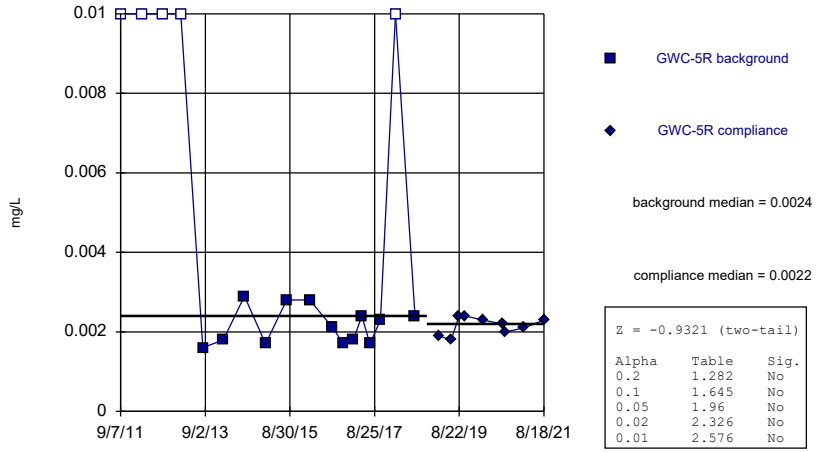
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



background median = 0.0024

compliance median = 0.0022

Z = -0.9321 (two-tail)

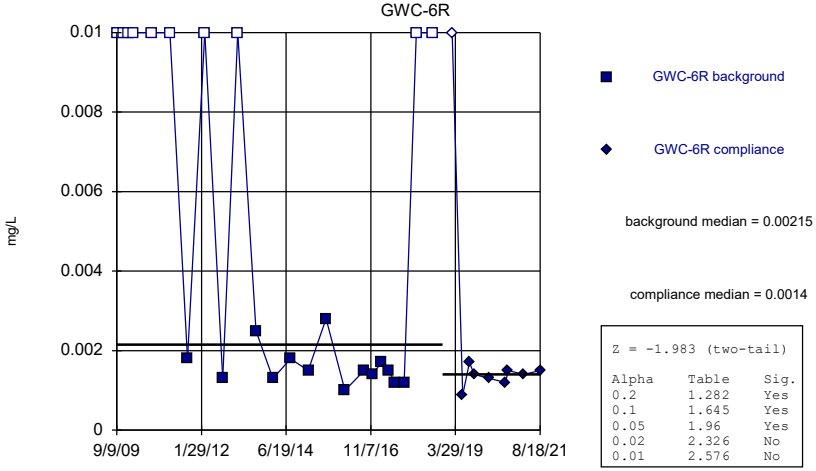
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



background median = 0.00215

compliance median = 0.0014

Z = -1.983 (two-tail)

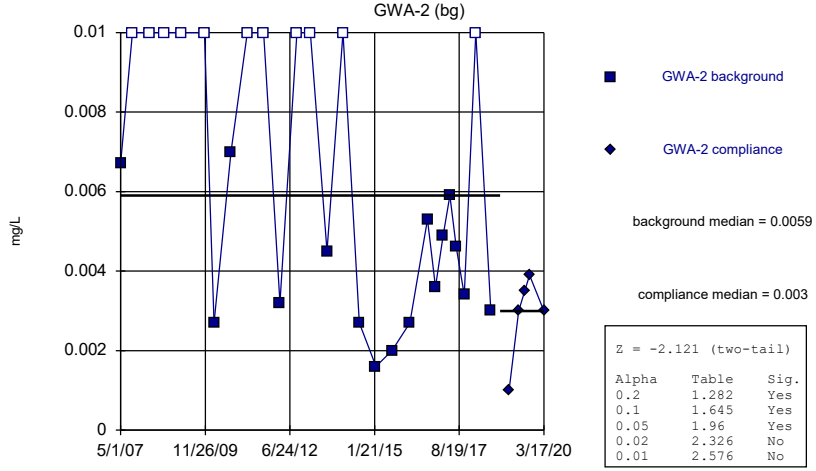
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



background median = 0.0059

compliance median = 0.003

Z = -2.121 (two-tail)

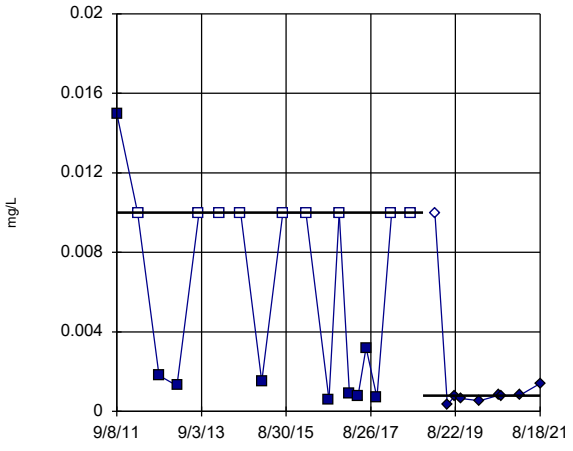
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



GWC-1R background

GWC-1R compliance

background median = 0.01

compliance median = 0.0008

Z = -2.771 (two-tail)

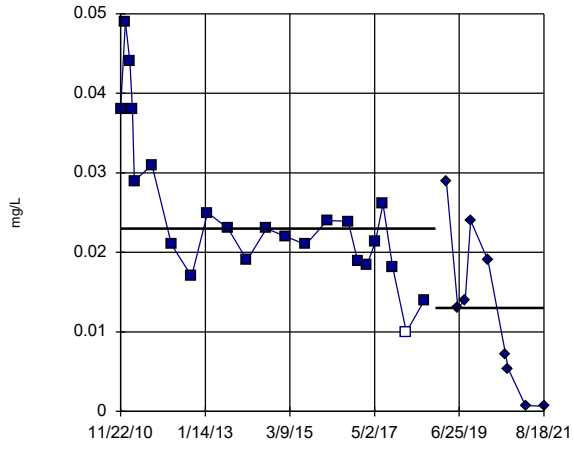
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



GWC-2R background

GWC-2R compliance

background median = 0.023

compliance median = 0.013

Z = -2.642 (two-tail)

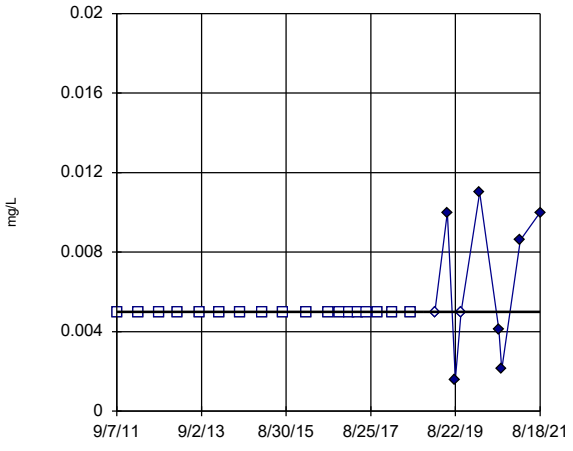
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



GWC-3R background

GWC-3R compliance

background median = 0.005

compliance median = 0.005

Z = 0.5674 (two-tail)

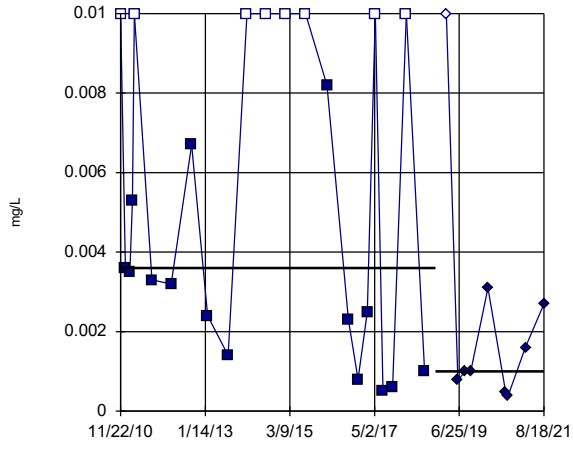
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



GWC-4R background

GWC-4R compliance

background median = 0.0036

compliance median = 0.001

Z = -2.352 (two-tail)

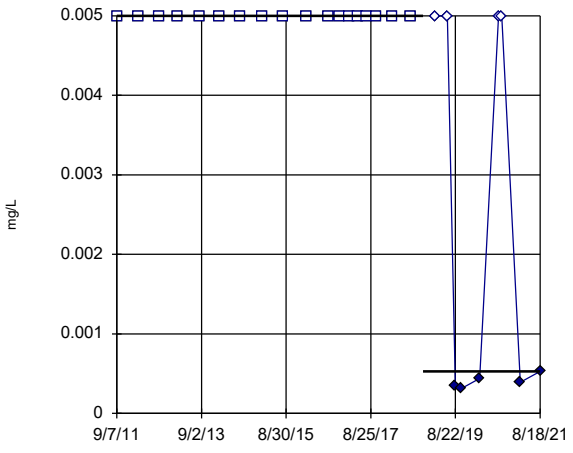
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



GWC-5R background

GWC-5R compliance

background median = 0.005

compliance median = 0.00053

Z = -3.453 (two-tail)

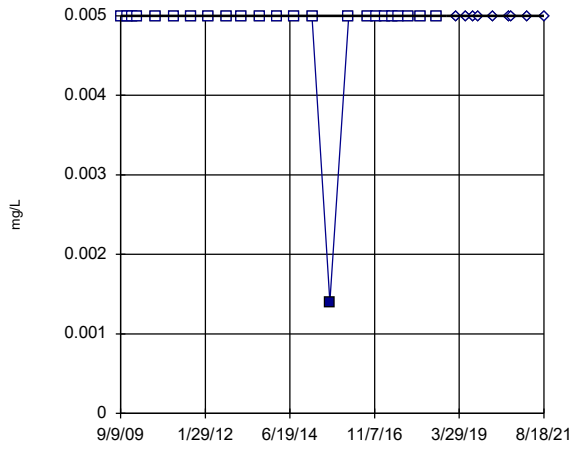
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



GWC-6R background

GWC-6R compliance

background median = 0.005

compliance median = 0.005

Z = 0.5443 (two-tail)

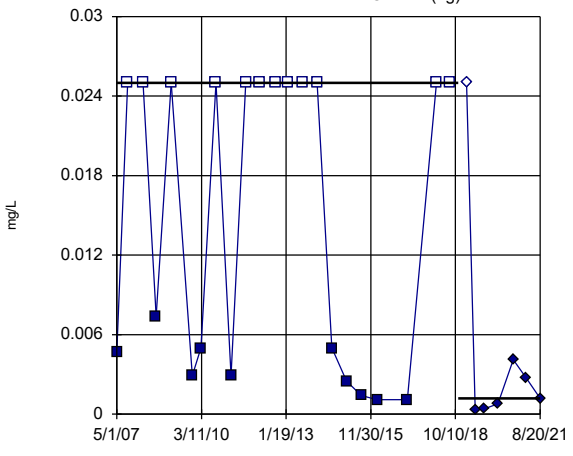
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Cobalt Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



GWA-2 background

GWA-2 compliance

background median = 0.025

compliance median = 0.0012

Z = -2.645 (two-tail)

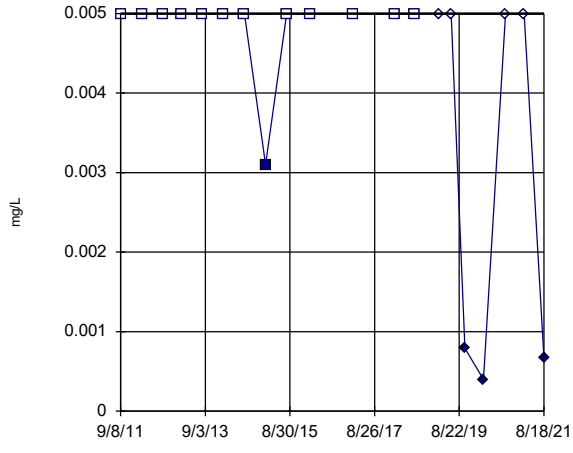
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



GWC-1R background

GWC-1R compliance

background median = 0.005

compliance median = 0.005

Z = -2.04 (two-tail)

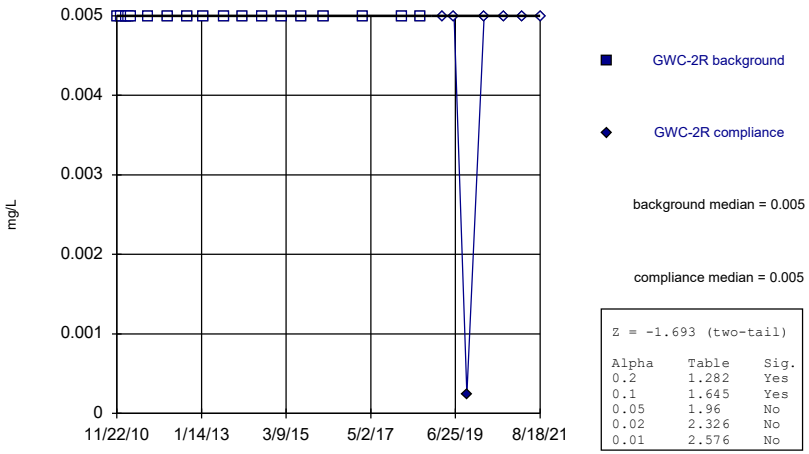
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.693 (two-tail)

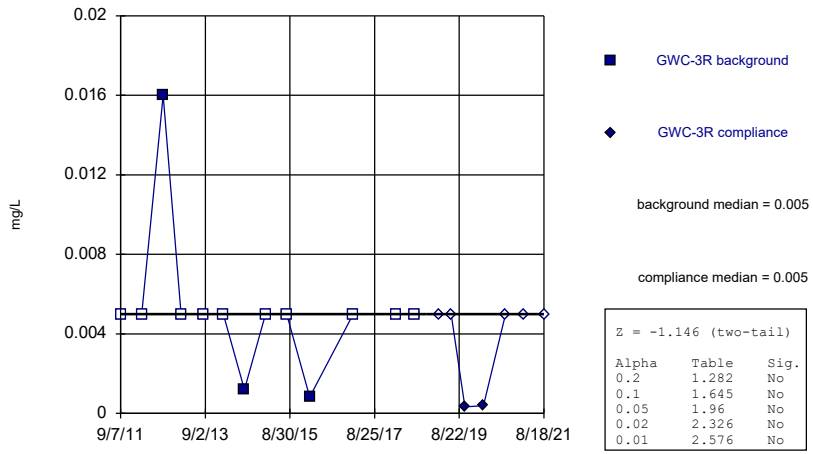
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -1.146 (two-tail)

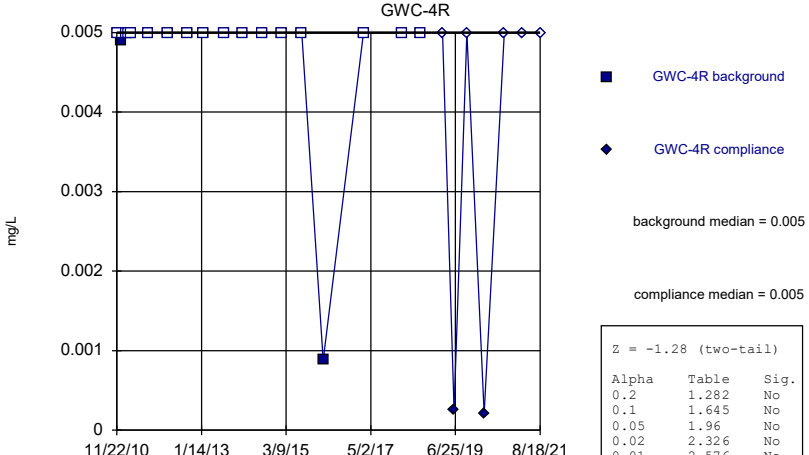
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -1.28 (two-tail)

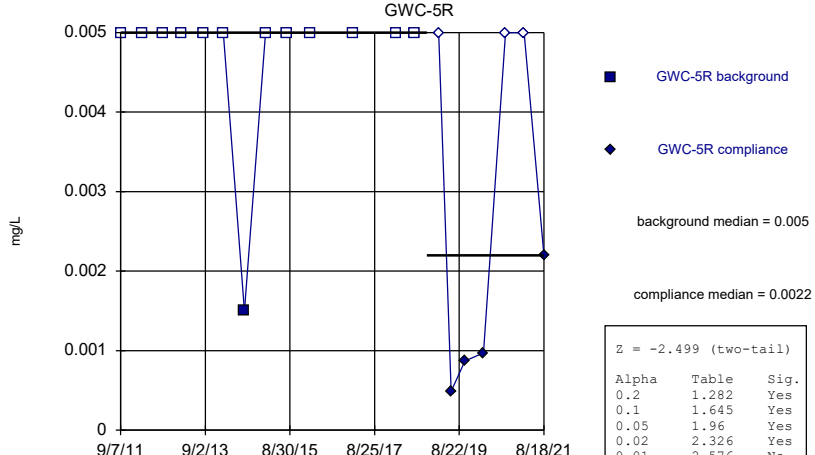
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -2.499 (two-tail)

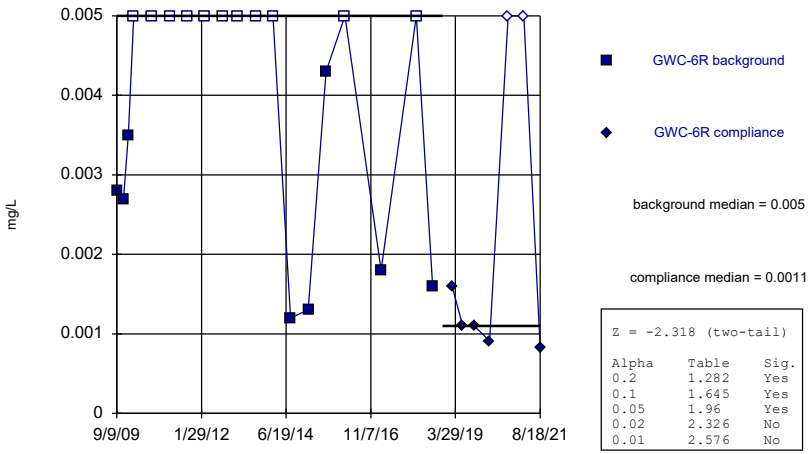
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -2.318 (two-tail)

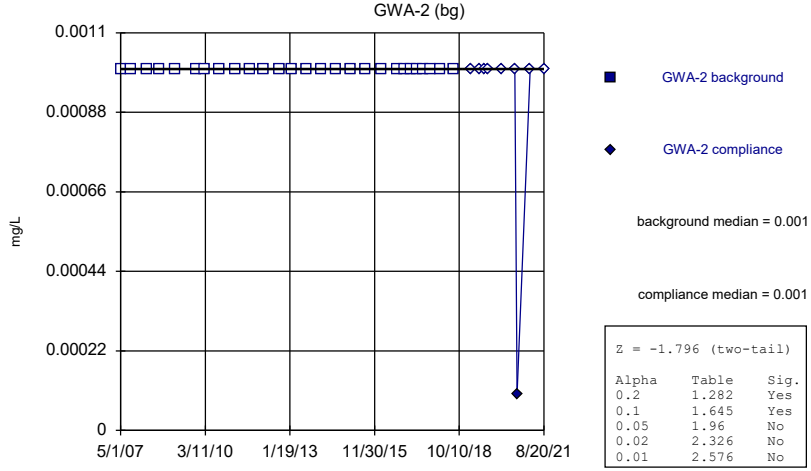
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Copper Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = -1.796 (two-tail)

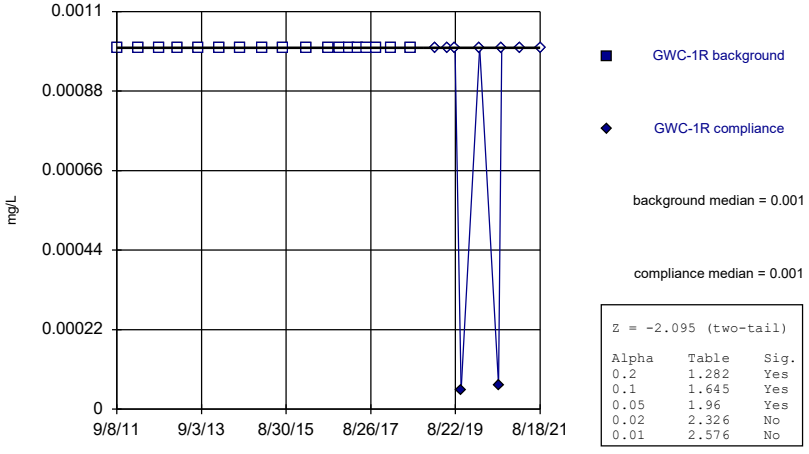
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = -2.095 (two-tail)

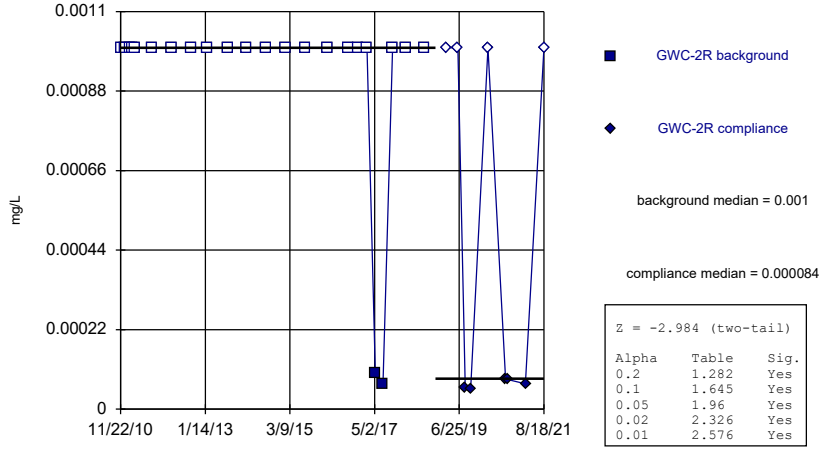
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -2.984 (two-tail)

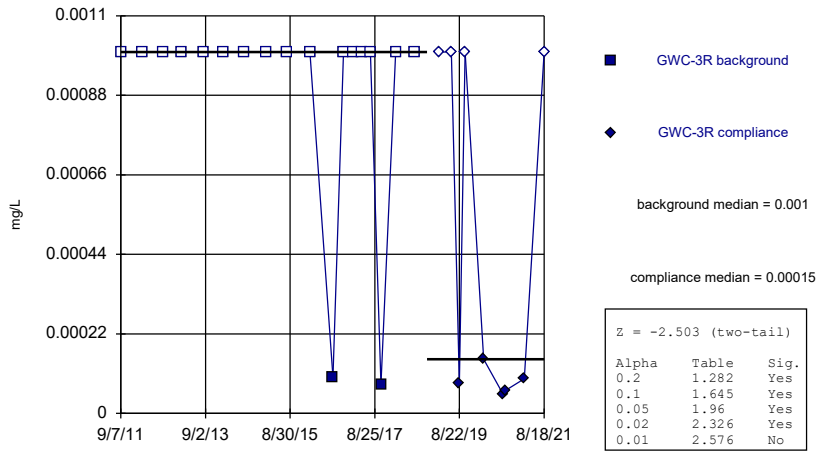
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



background median = 0.001

compliance median = 0.00015

Z = -2.503 (two-tail)

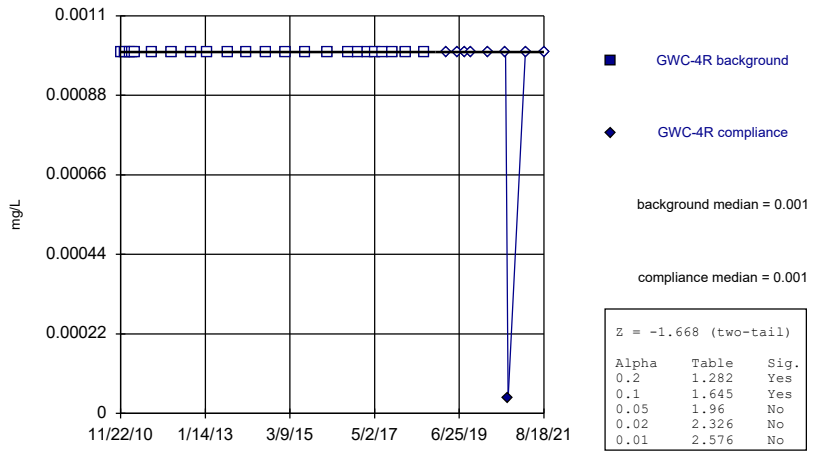
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



background median = 0.001

compliance median = 0.001

Z = -1.668 (two-tail)

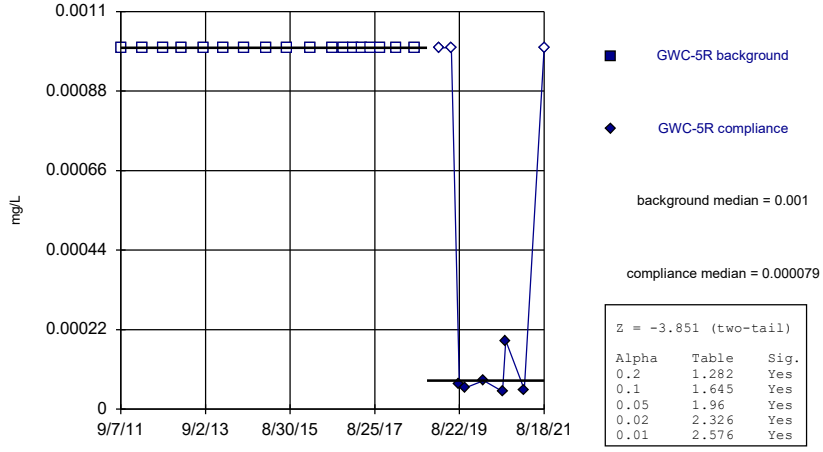
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



background median = 0.001

compliance median = 0.000079

Z = -3.851 (two-tail)

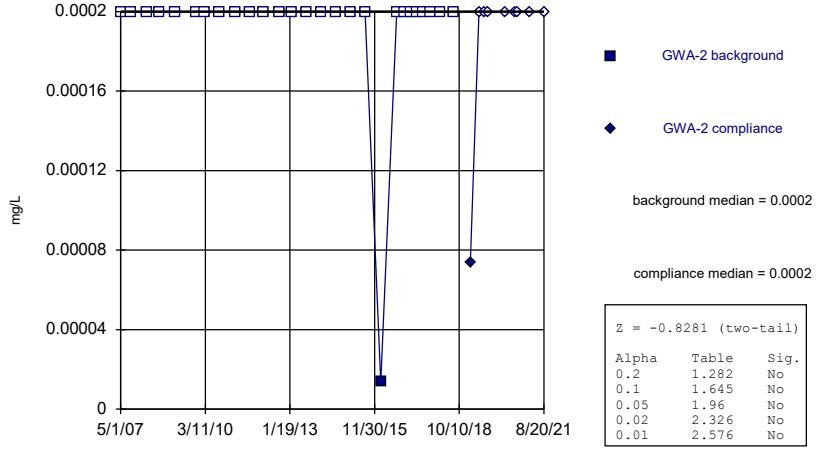
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Lead Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



background median = 0.0002

compliance median = 0.0002

Z = -0.8281 (two-tail)

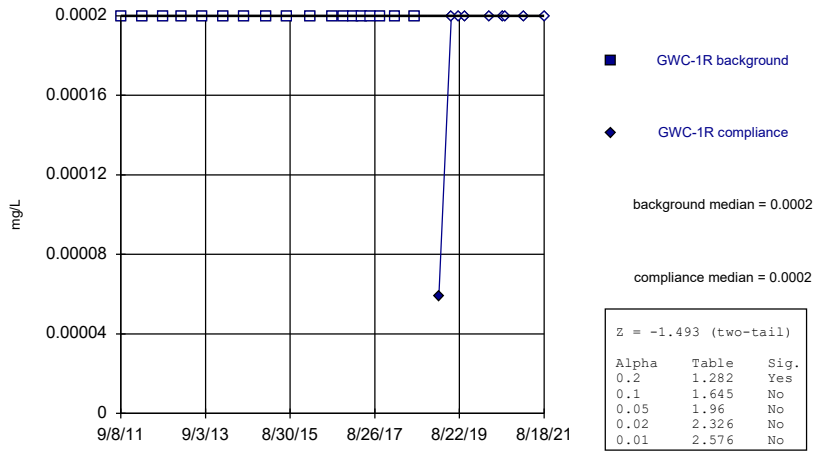
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = -1.493 (two-tail)

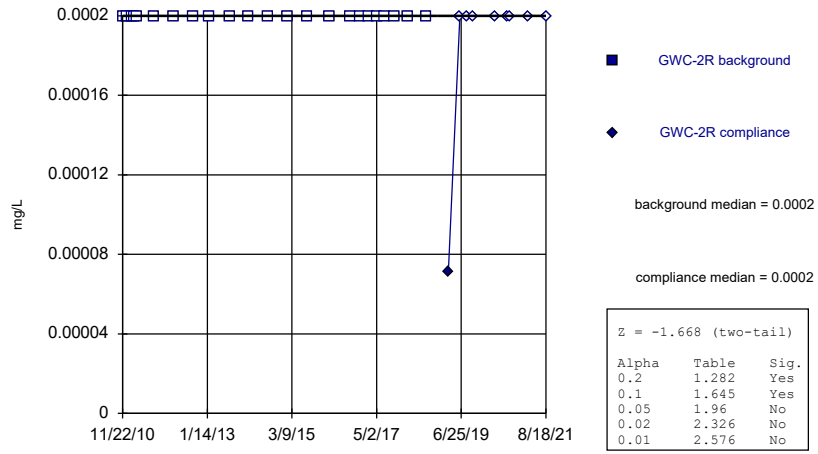
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.668 (two-tail)

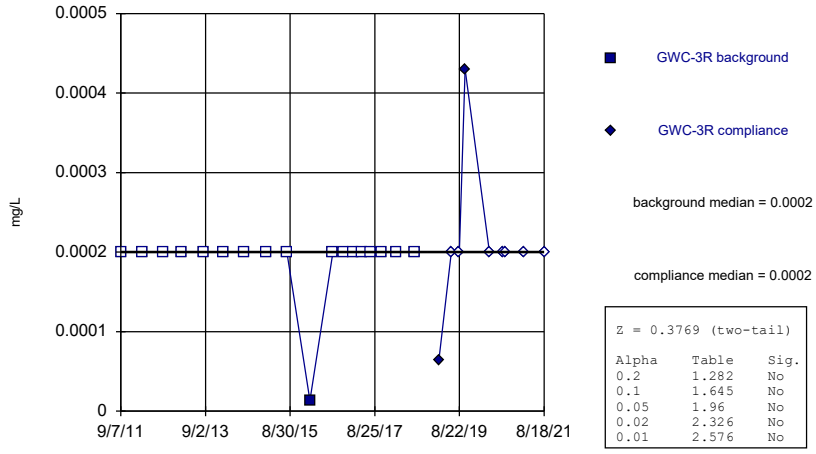
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = 0.3769 (two-tail)

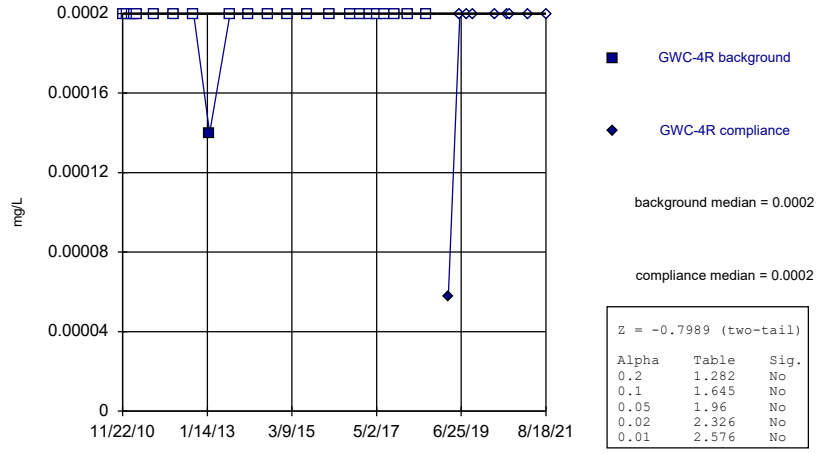
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -0.7989 (two-tail)

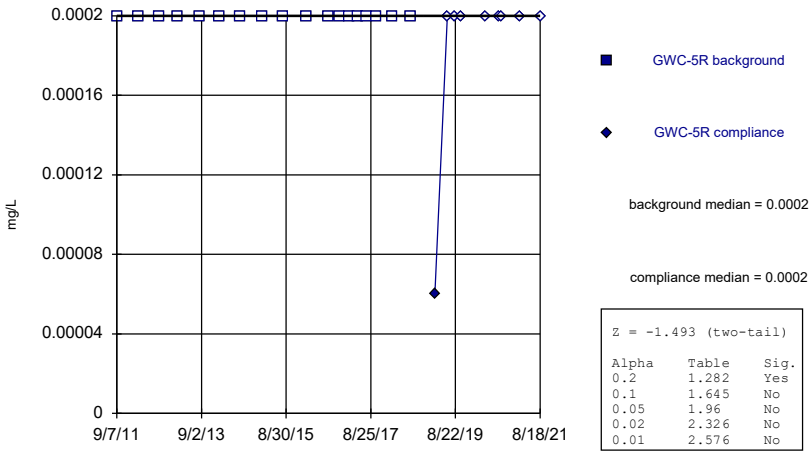
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -1.493 (two-tail)

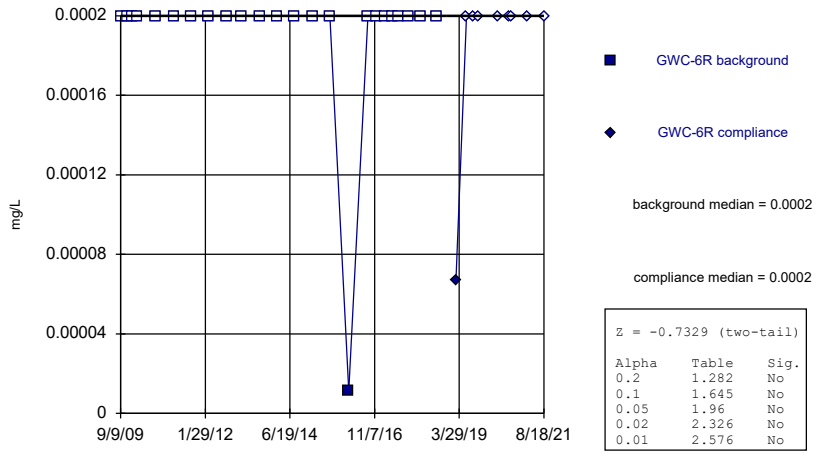
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -0.7329 (two-tail)

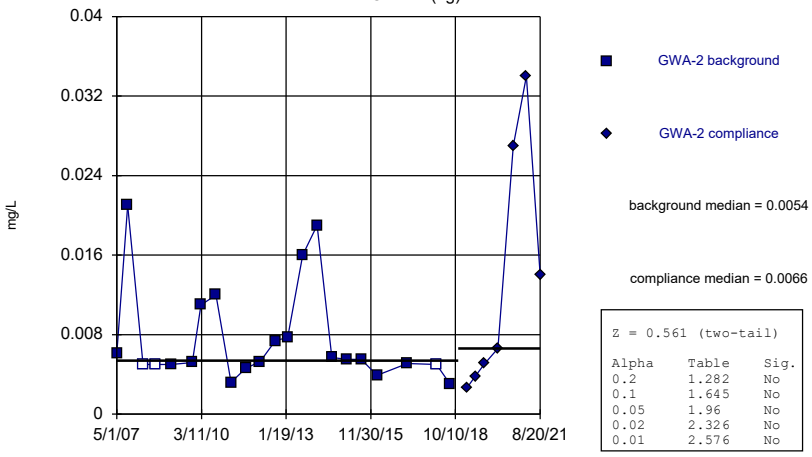
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Mercury Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = 0.561 (two-tail)

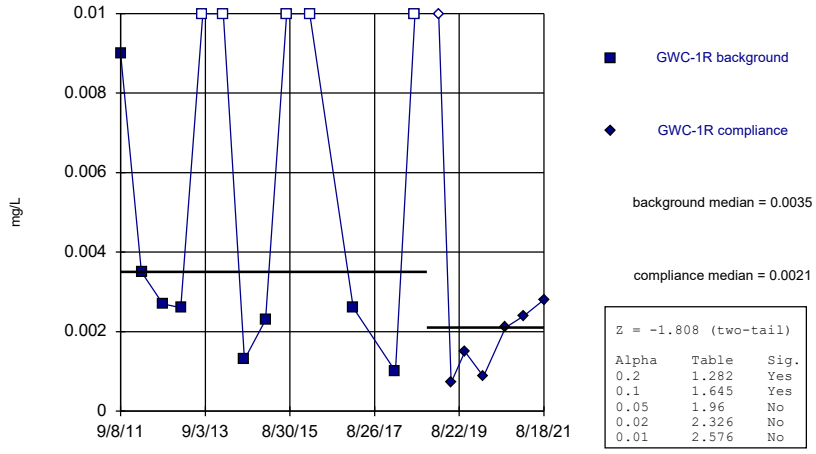
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = -1.808 (two-tail)

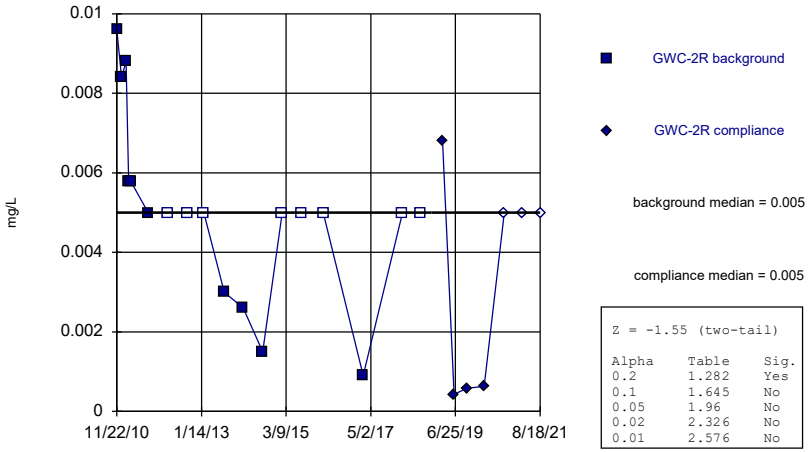
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.55 (two-tail)

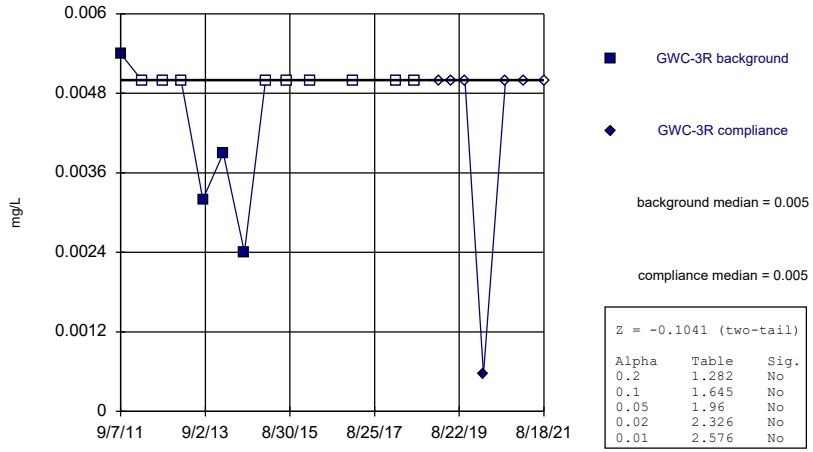
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -0.1041 (two-tail)

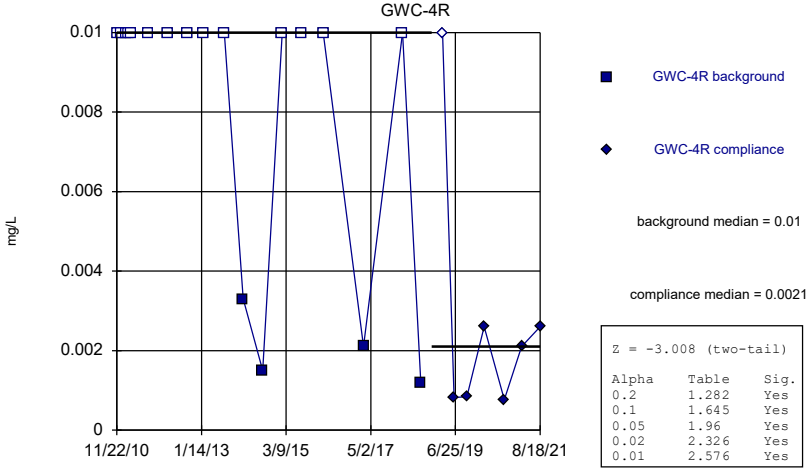
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -3.008 (two-tail)

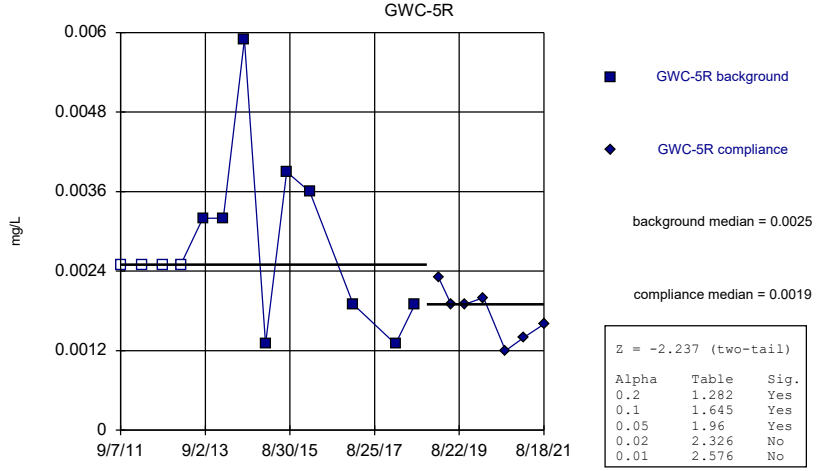
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -2.237 (two-tail)

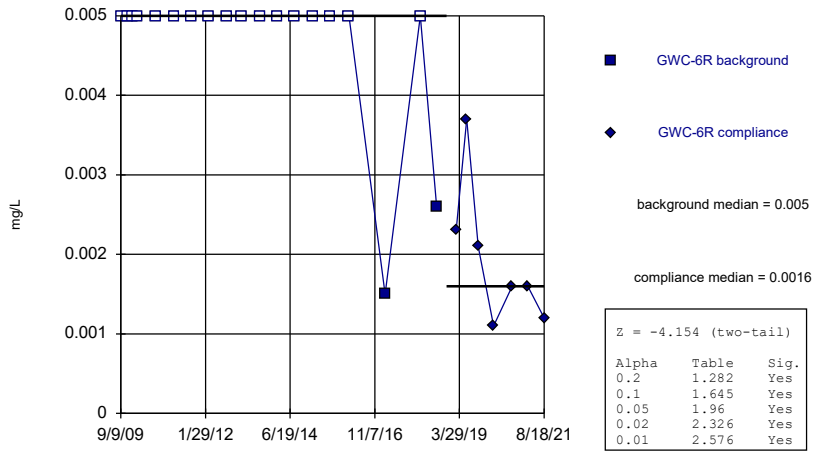
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -4.154 (two-tail)

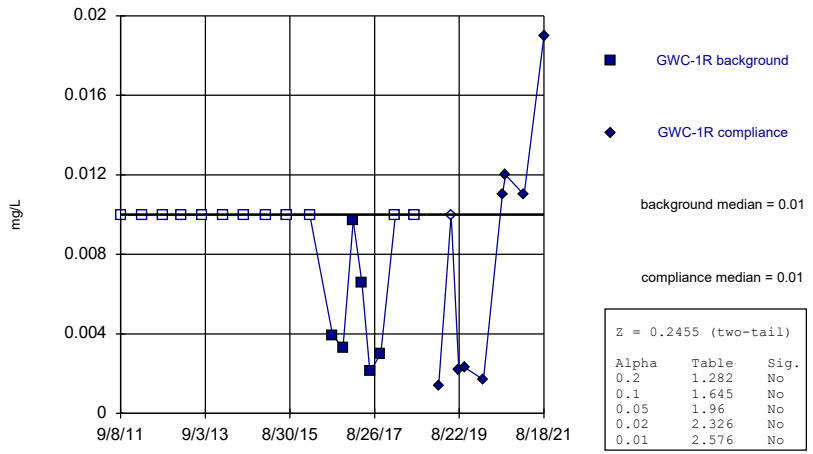
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Nickel Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = 0.2455 (two-tail)

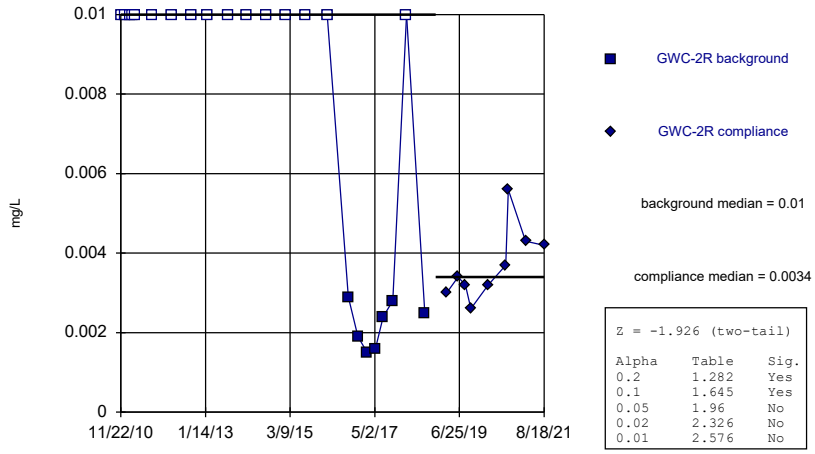
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.926 (two-tail)

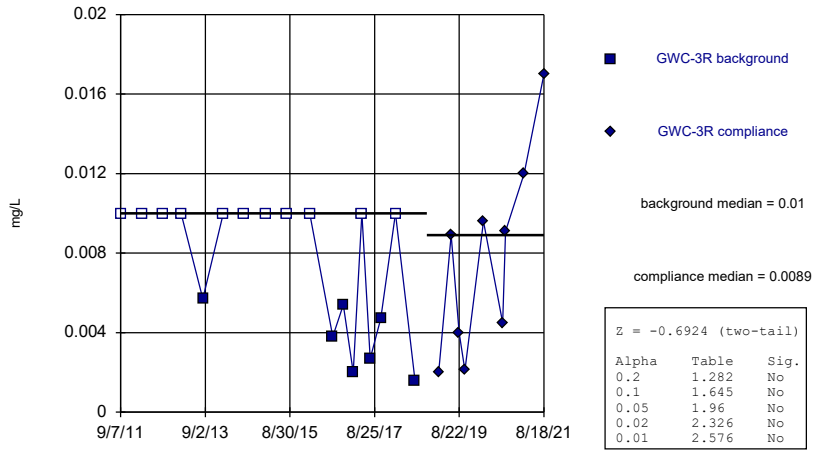
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -0.6924 (two-tail)

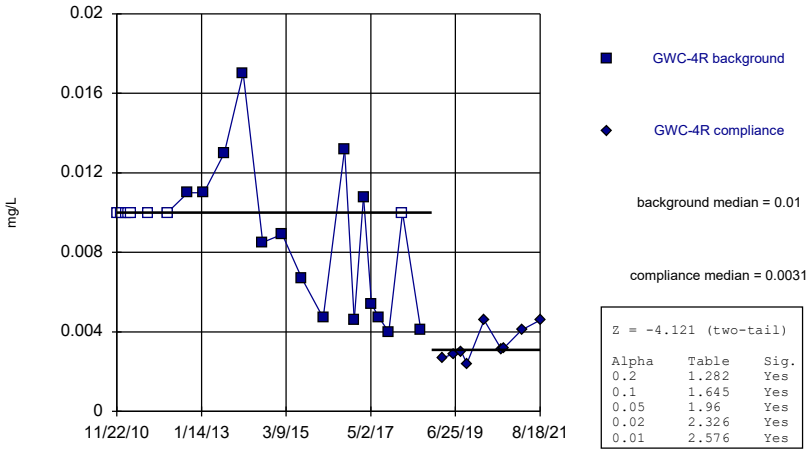
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -4.121 (two-tail)

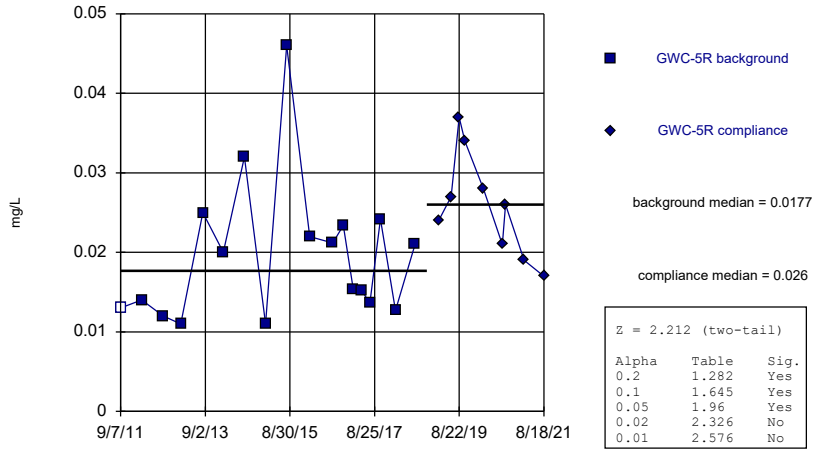
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = 2.212 (two-tail)

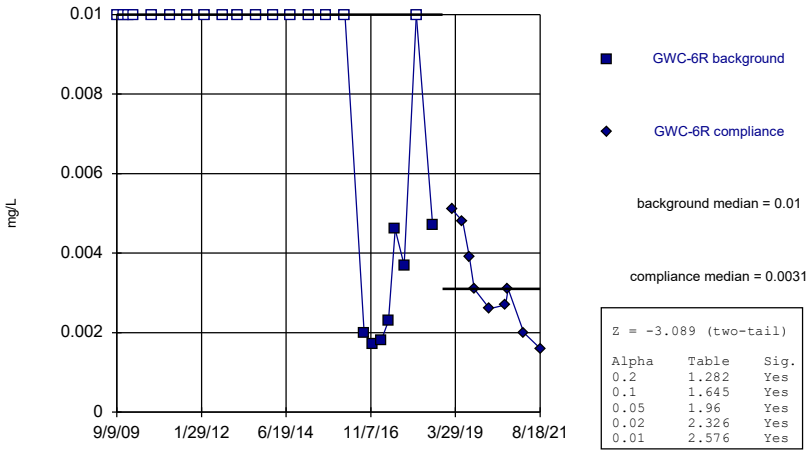
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -3.089 (two-tail)

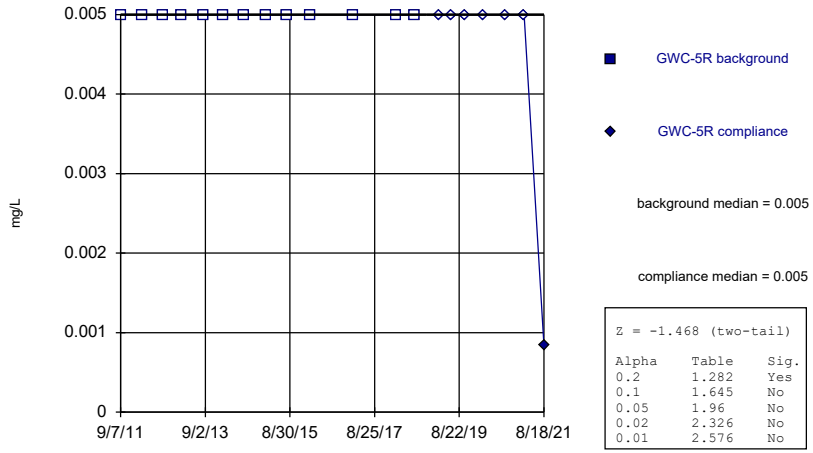
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Selenium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -1.468 (two-tail)

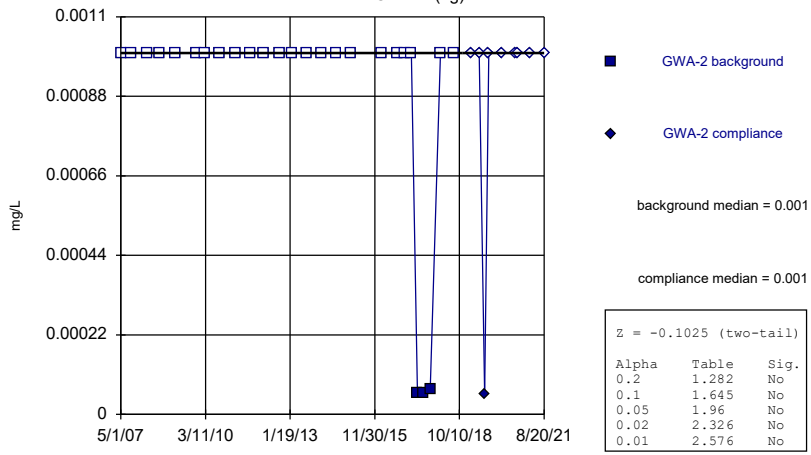
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Silver Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = -0.1025 (two-tail)

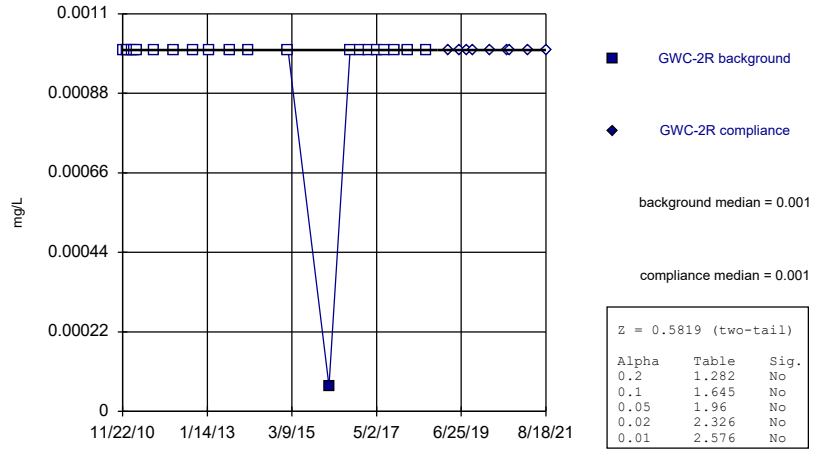
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Thallium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = 0.5819 (two-tail)

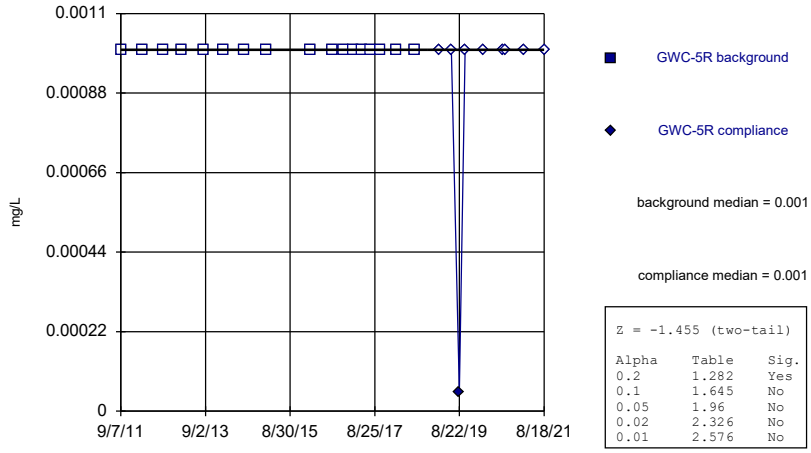
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Thallium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -1.455 (two-tail)

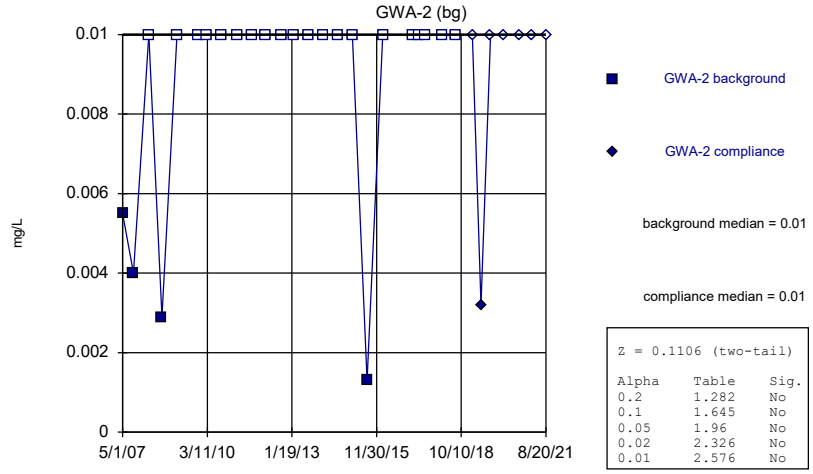
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Thallium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



Z = 0.1106 (two-tail)

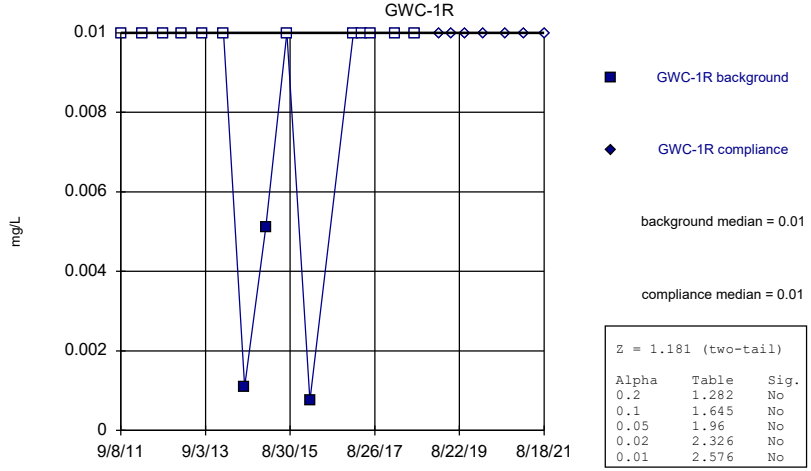
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



Z = 1.181 (two-tail)

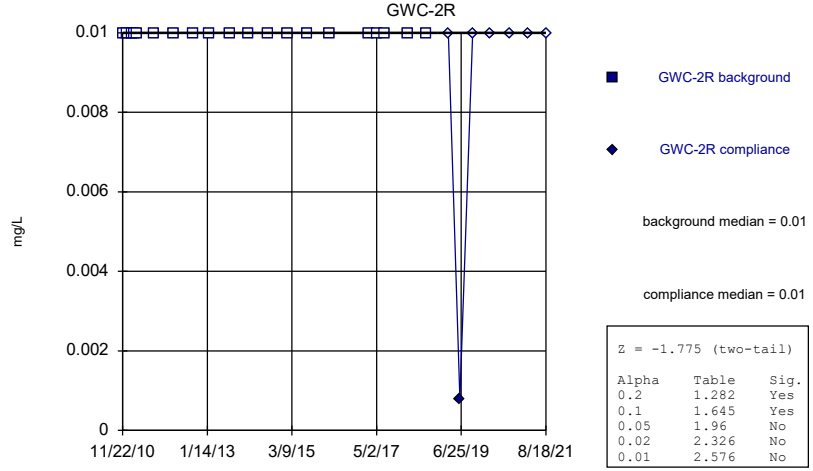
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:23 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = -1.775 (two-tail)

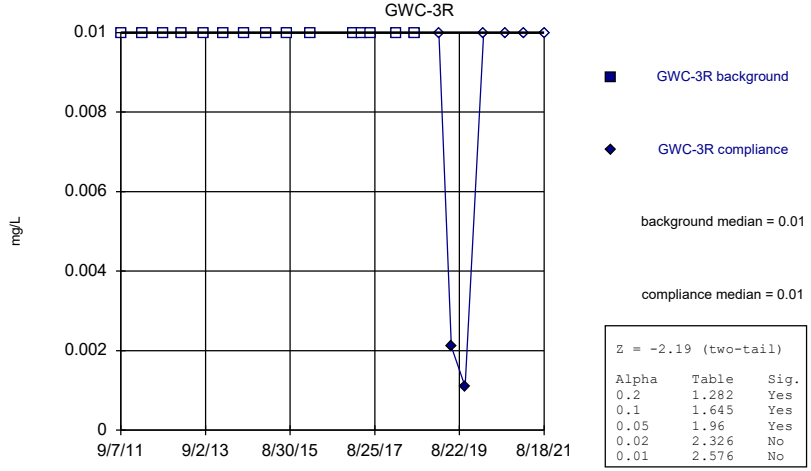
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = -2.19 (two-tail)

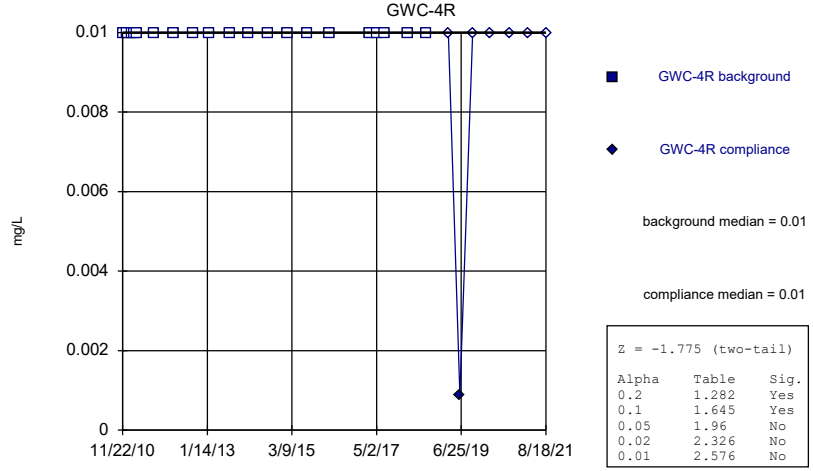
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -1.775 (two-tail)

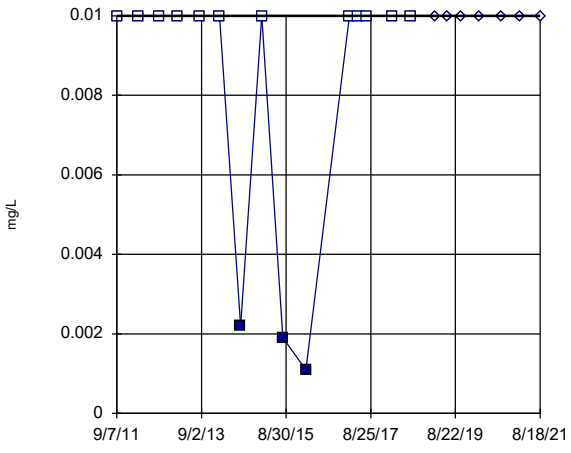
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



GWC-5R background

GWC-5R compliance

background median = 0.01

compliance median = 0.01

Z = 1.181 (two-tail)

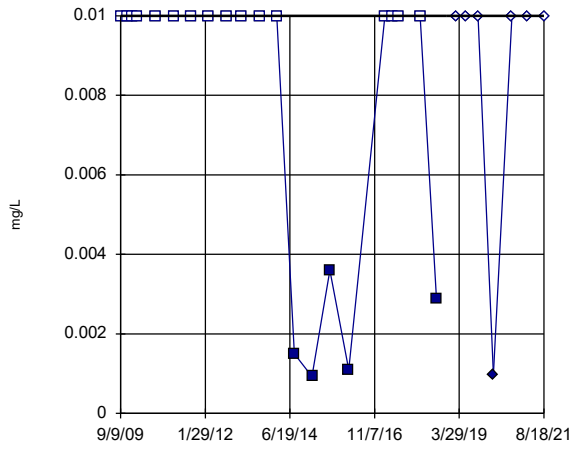
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



GWC-6R background

GWC-6R compliance

background median = 0.01

compliance median = 0.01

Z = 0.3695 (two-tail)

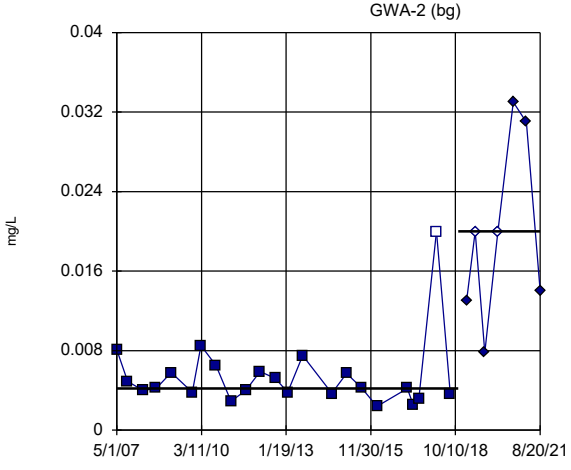
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Vanadium Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



GWA-2 background

GWA-2 compliance

background median = 0.0042

compliance median = 0.02

Z = 3.632 (two-tail)

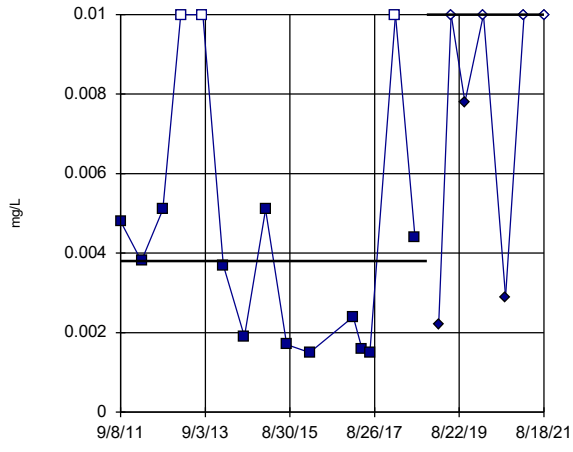
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



GWC-1R background

GWC-1R compliance

background median = 0.0038

compliance median = 0.01

Z = 1.72 (two-tail)

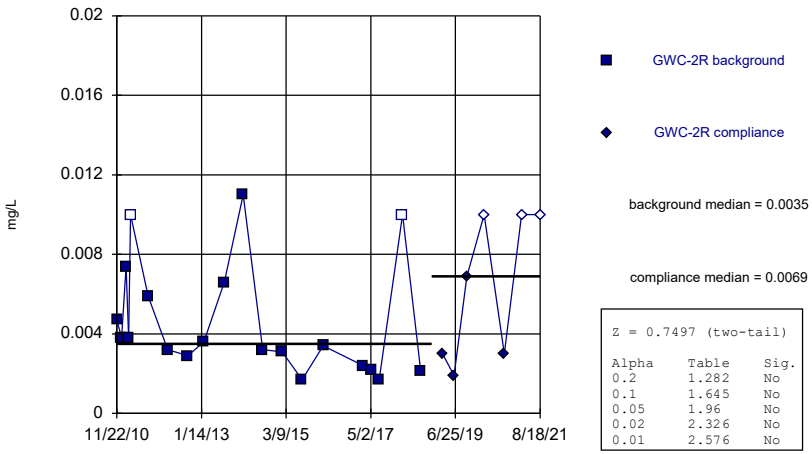
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



Z = 0.7497 (two-tail)

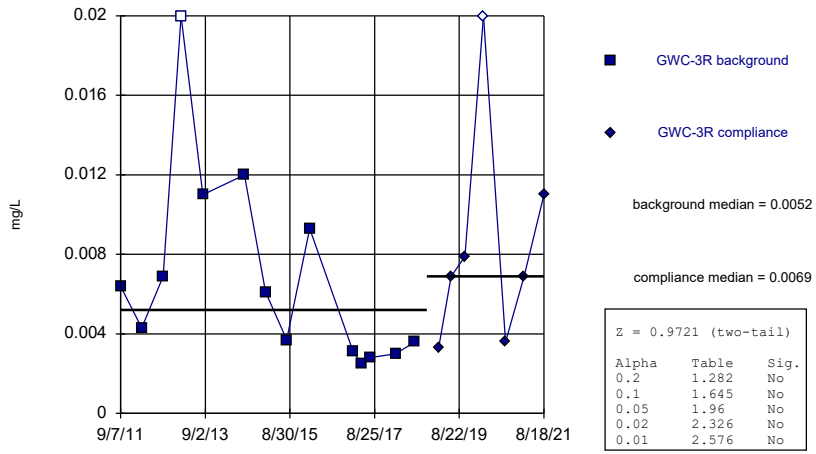
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



Z = 0.9721 (two-tail)

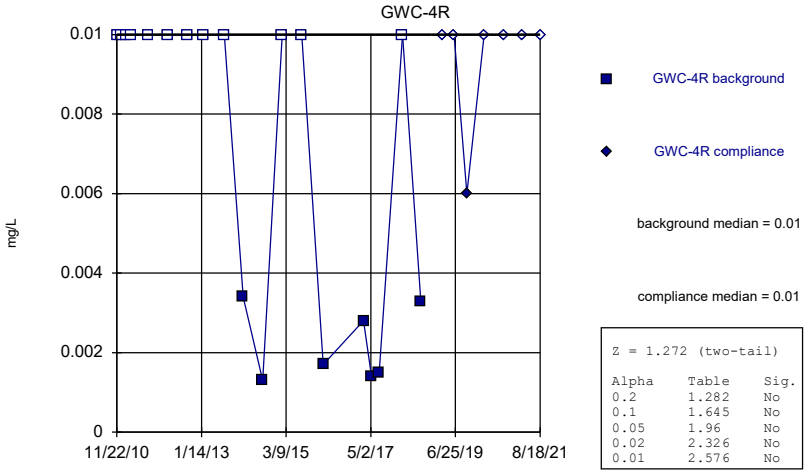
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = 1.272 (two-tail)

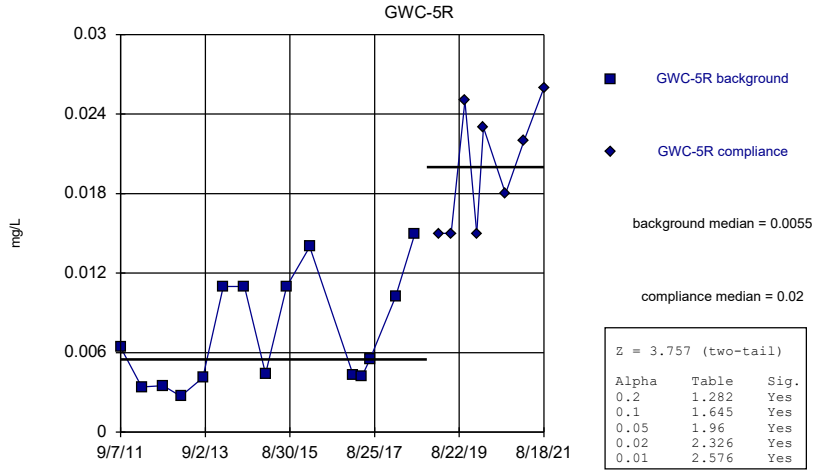
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R

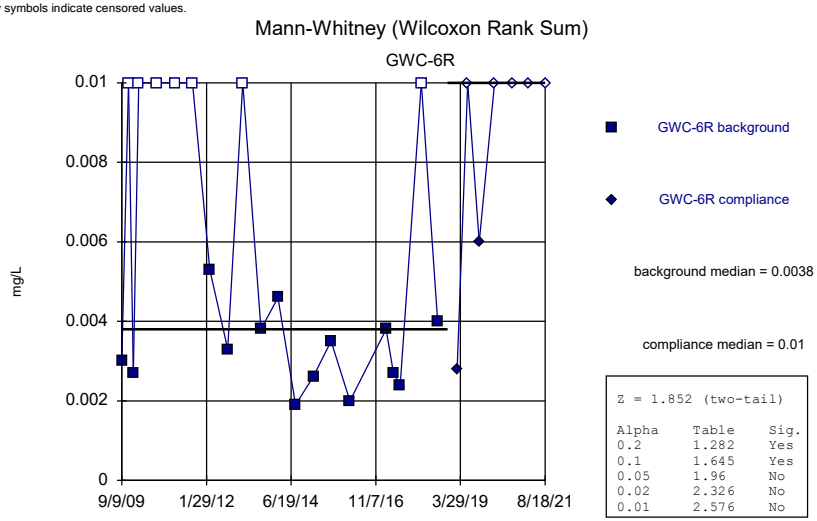


Z = 3.757 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.



Constituent: Zinc Analysis Run 3/16/2022 4:24 PM View: Mann Whitney App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE E.

Mann-Whitney Summary Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:21 PM

Constituent	Well	Calc.	0.01	Sig.	Method
pH (S.U.)	**GWC-2R**	**-3.002**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	**GWC-5R**	**-3.105**	**Yes**	**Yes**	**Mann-W**

Mann-Whitney Summary Appendix III - All Results

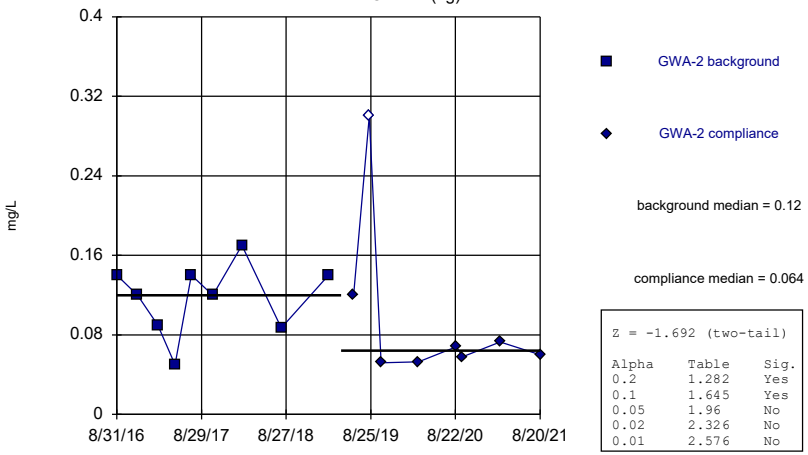
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/16/2022, 4:21 PM

Constituent	Well	Calc.	0.01	Sig.	Method
Fluoride (mg/L)	GWA-2 (bg)	-1.692	No	No	Mann-W
Fluoride (mg/L)	GWC-1R	2.006	No	No	Mann-W
Fluoride (mg/L)	GWC-2R	2.149	No	No	Mann-W
Fluoride (mg/L)	GWC-3R	0.6481	No	No	Mann-W
Fluoride (mg/L)	GWC-4R	-0.06464	No	No	Mann-W
Fluoride (mg/L)	GWC-5R	0.2607	No	No	Mann-W
Fluoride (mg/L)	GWC-6R	0.9697	No	No	Mann-W
pH (S.U.)	GWA-2 (bg)	-1.404	No	No	Mann-W
pH (S.U.)	GWC-1R	-0.08848	No	No	Mann-W
pH (S.U.)	**GWC-2R**	**-3.002**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	GWC-3R	-0.6181	No	No	Mann-W
pH (S.U.)	GWC-4R	0	No	No	Mann-W
pH (S.U.)	**GWC-5R**	**-3.105**	**Yes**	**Yes**	**Mann-W**
pH (S.U.)	GWC-6R	-0.6648	No	No	Mann-W

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



background median = 0.12

compliance median = 0.064

Z = -1.692 (two-tail)

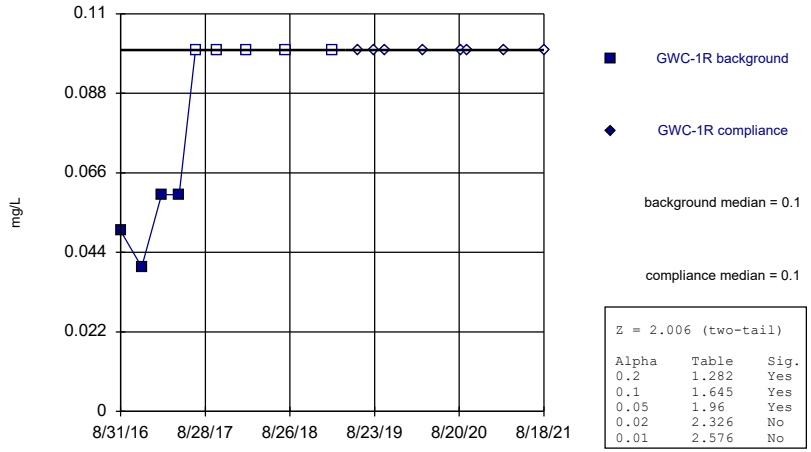
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



background median = 0.1

compliance median = 0.1

Z = 2.006 (two-tail)

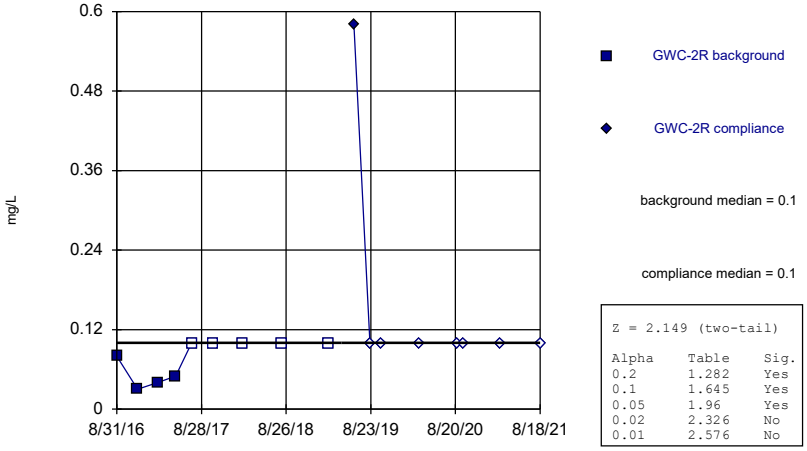
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



background median = 0.1

compliance median = 0.1

Z = 2.149 (two-tail)

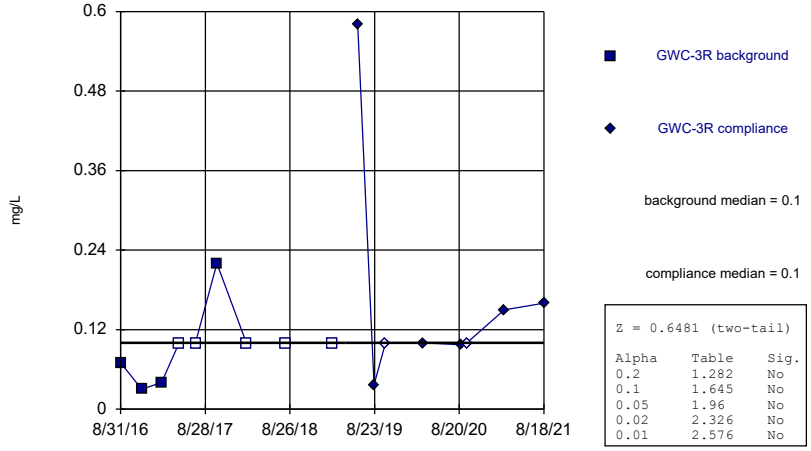
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



background median = 0.1

compliance median = 0.1

Z = 0.6481 (two-tail)

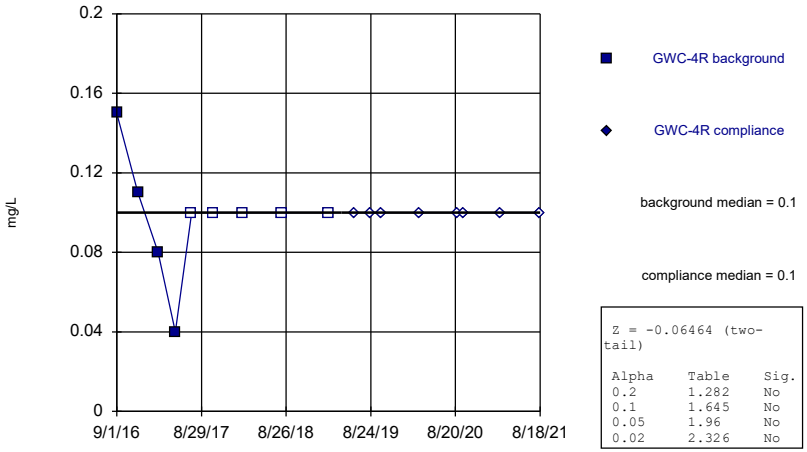
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



Z = -0.06464 (two-tail)

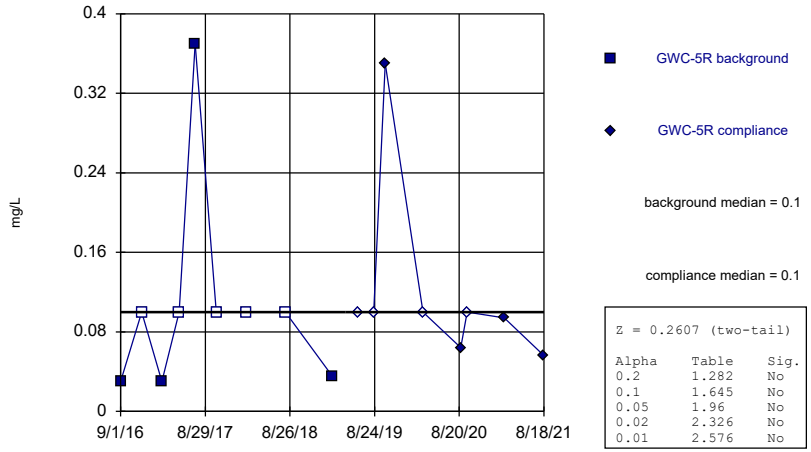
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = 0.2607 (two-tail)

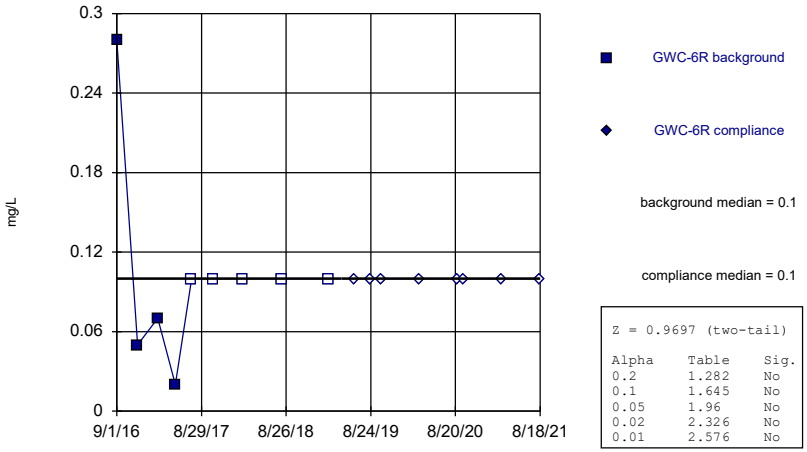
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = 0.9697 (two-tail)

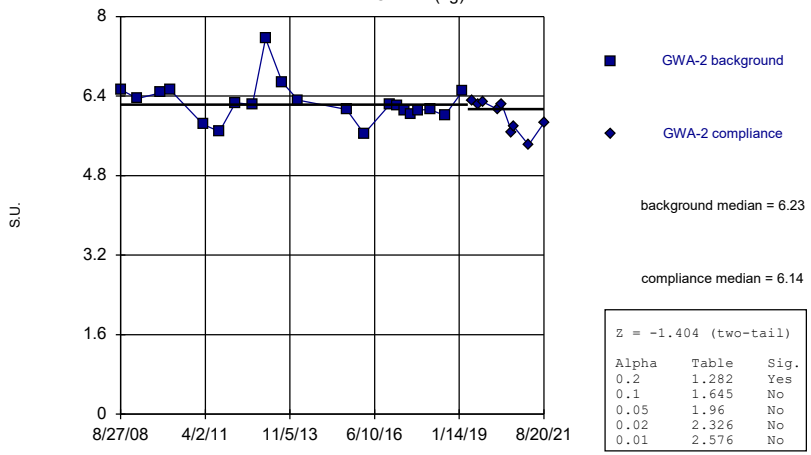
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWA-2 (bg)



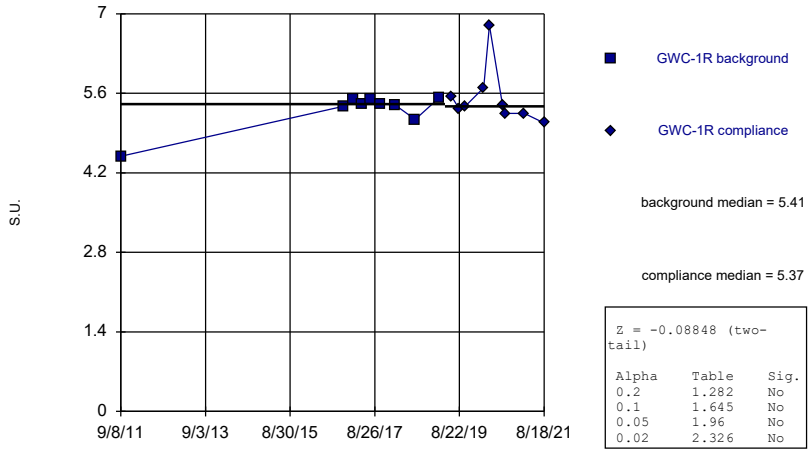
Z = -1.404 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Mann-Whitney (Wilcoxon Rank Sum)

GWC-1R



background median = 5.41

compliance median = 5.37

Z = -0.08848 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No

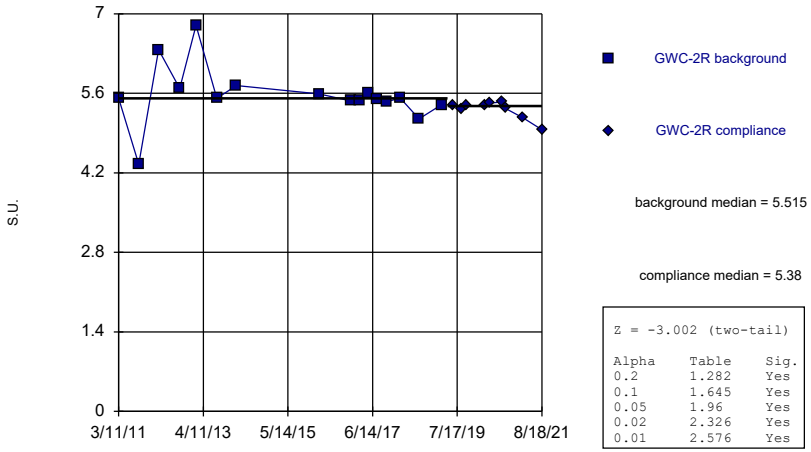
Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-2R



background median = 5.515

compliance median = 5.38

Z = -3.002 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

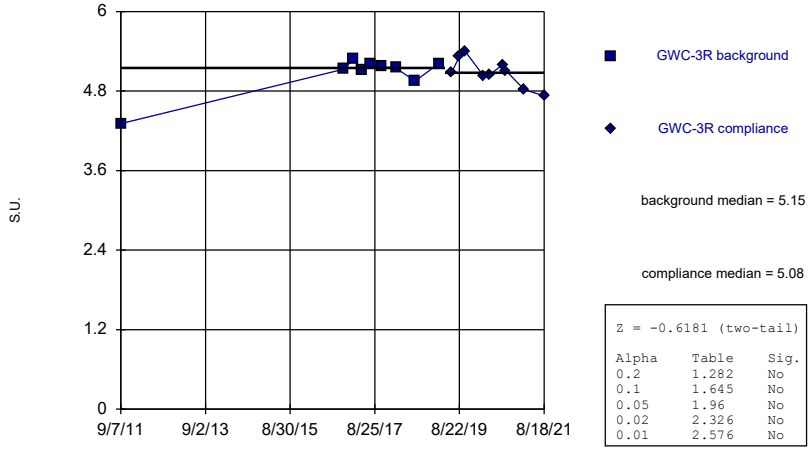
Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-3R



background median = 5.15

compliance median = 5.08

Z = -0.6181 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

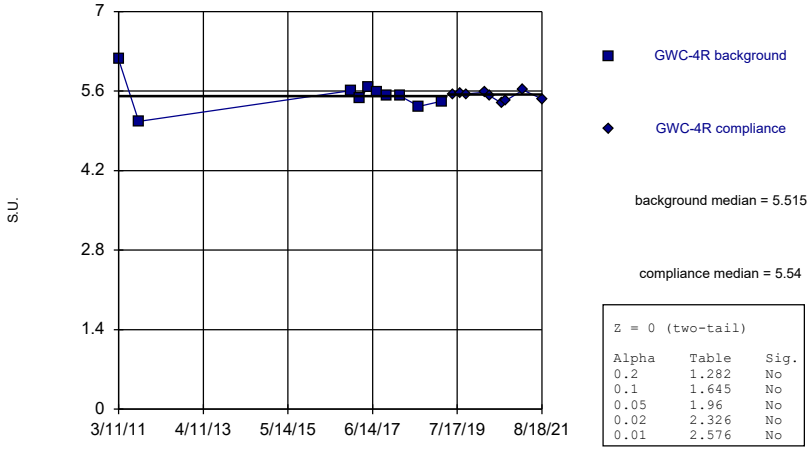
Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-4R



background median = 5.515

compliance median = 5.54

Z = 0 (two-tail)

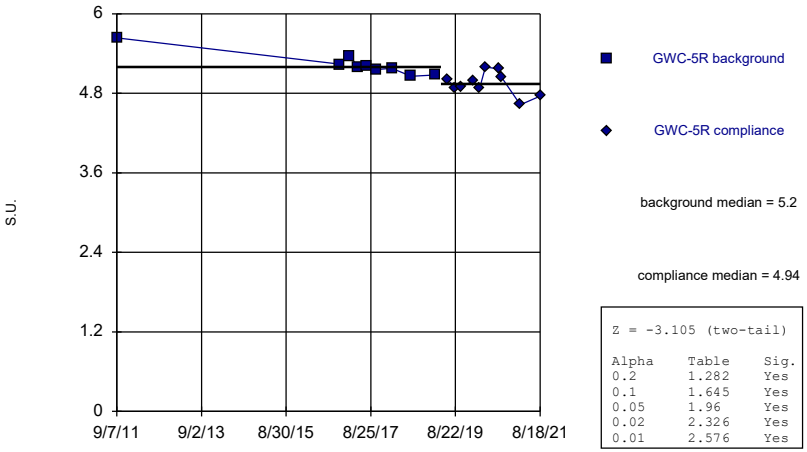
Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Mann-Whitney (Wilcoxon Rank Sum)

GWC-5R



Z = -3.105 (two-tail)

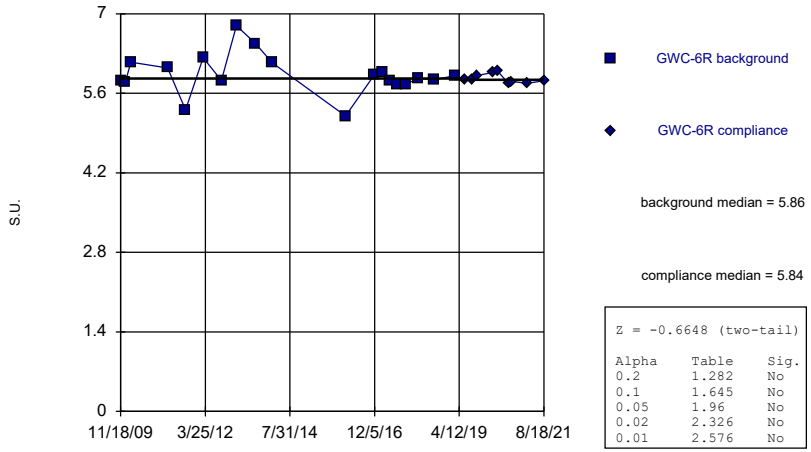
Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32f Sanitas software utilized by Groundwater Stats Consulting. UG

Mann-Whitney (Wilcoxon Rank Sum)

GWC-6R



Z = -0.6648 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: pH Analysis Run 3/16/2022 4:19 PM View: Mann Whitney - App III
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE F.

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Upgradient Wells - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-6I (bg)	0.007562	8	21	No	8	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-6S (bg)	0.02113	12	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-6I (bg)	2.118	10	21	No	8	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-6S (bg)	4.38	20	21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Upgradient Wells - All Results

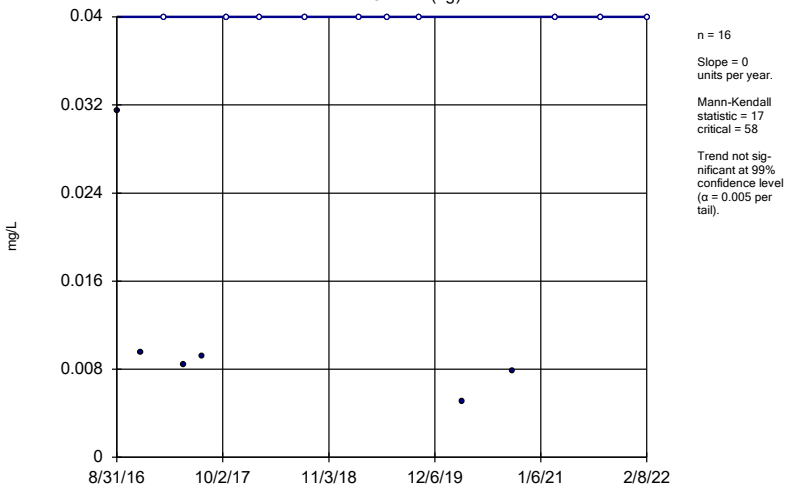
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:12 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-6I (bg)	1.183	18	21	No	8	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-6S (bg)	0.9037	15	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-6I (bg)	1.355	5	21	No	8	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-6S (bg)	13.62	20	21	No	8	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-6I (bg)	7.244	2	21	No	8	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-6S (bg)	39.62	19	21	No	8	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 58

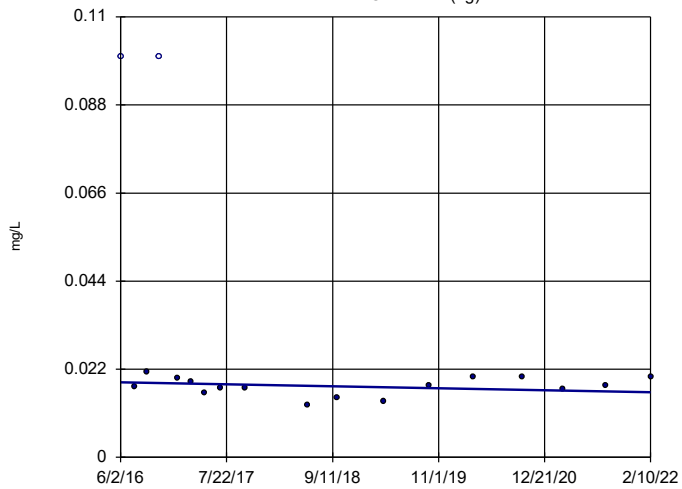
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.0004307 units per year.

Mann-Kendall statistic = -27
critical = -68

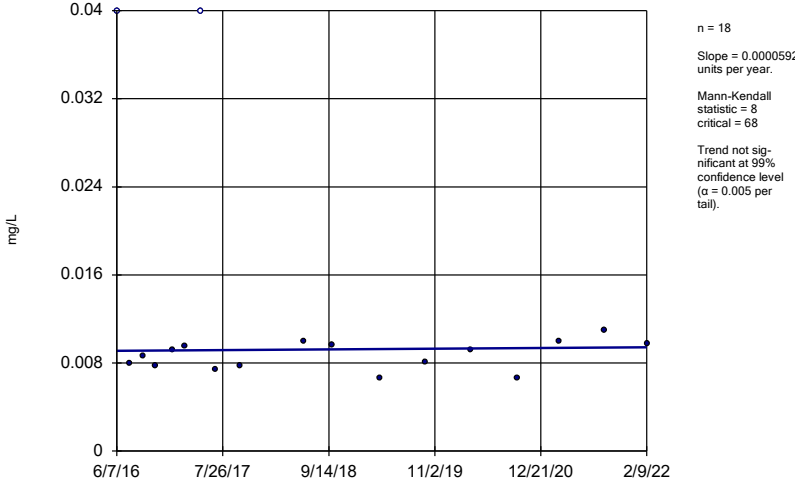
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.00005921 units per year.

Mann-Kendall statistic = 8
critical = 68

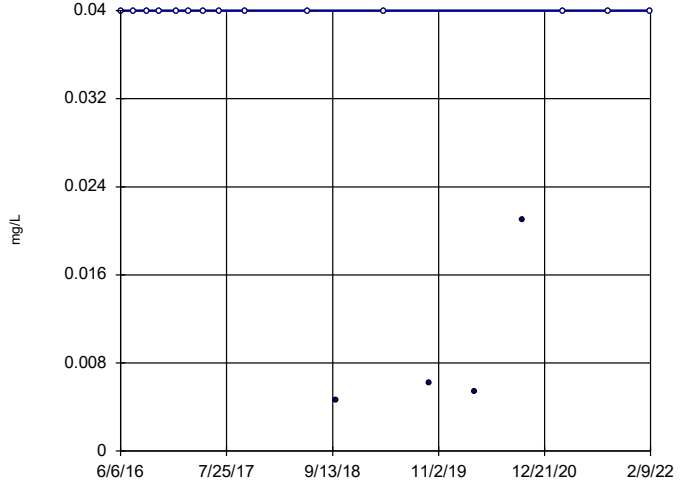
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -26
critical = -68

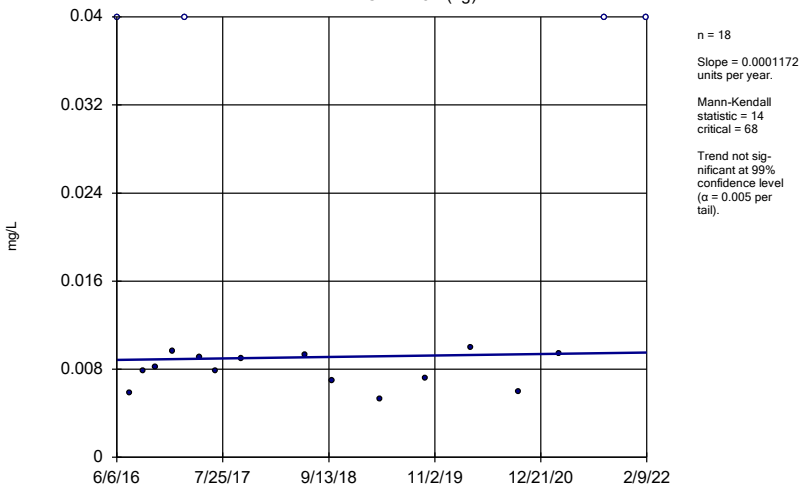
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.0001172 units per year.

Mann-Kendall statistic = 14
critical = 68

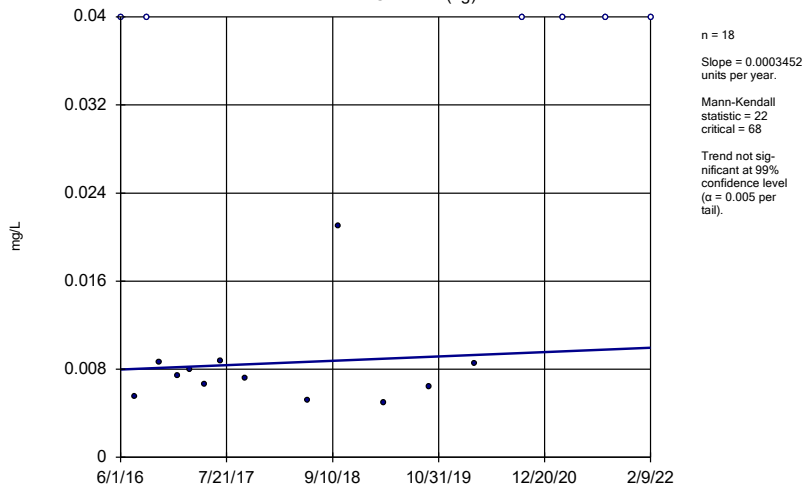
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.0003452 units per year.

Mann-Kendall statistic = 22
critical = 68

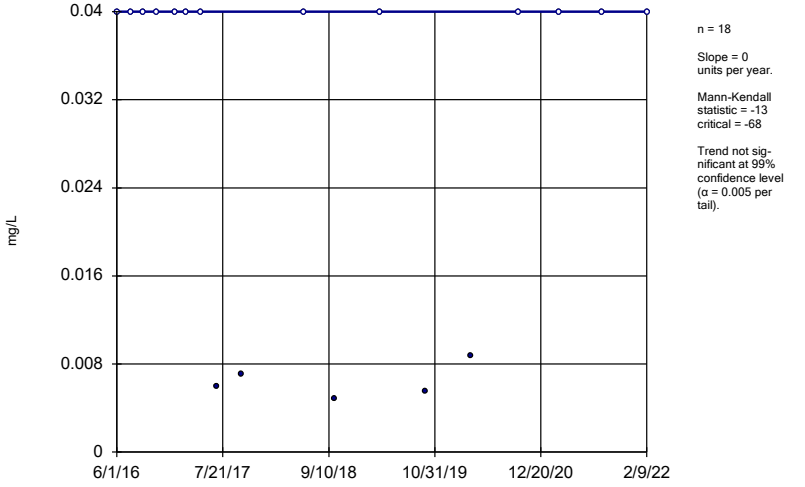
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -68

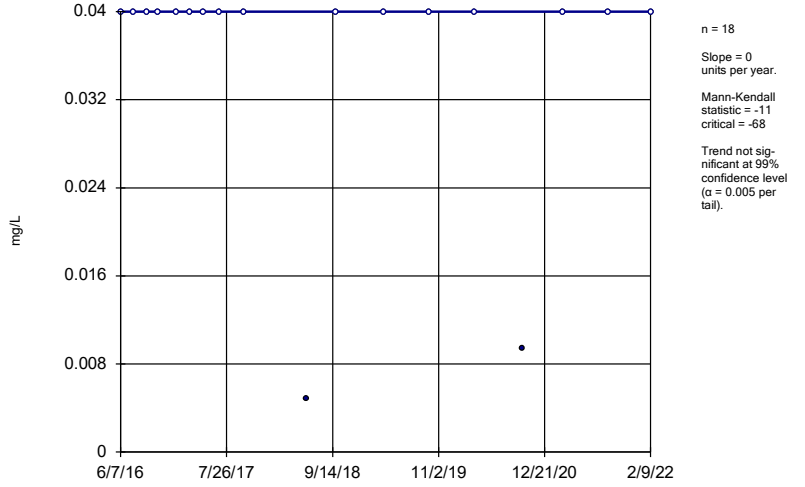
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -68

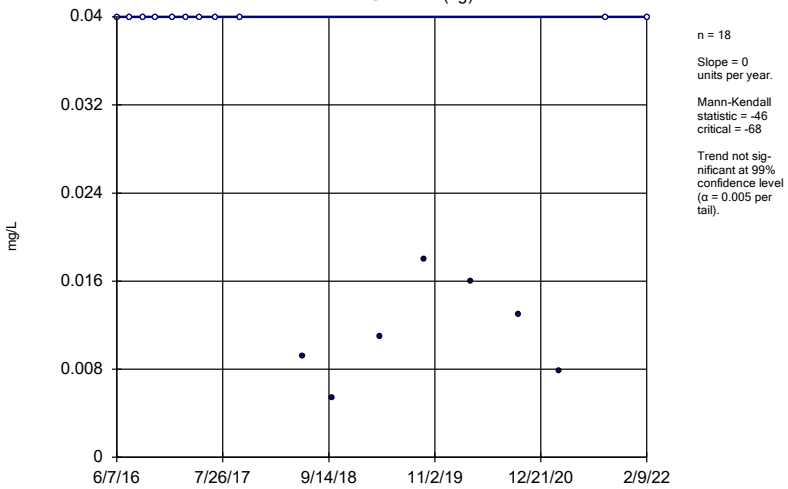
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -46
critical = -68

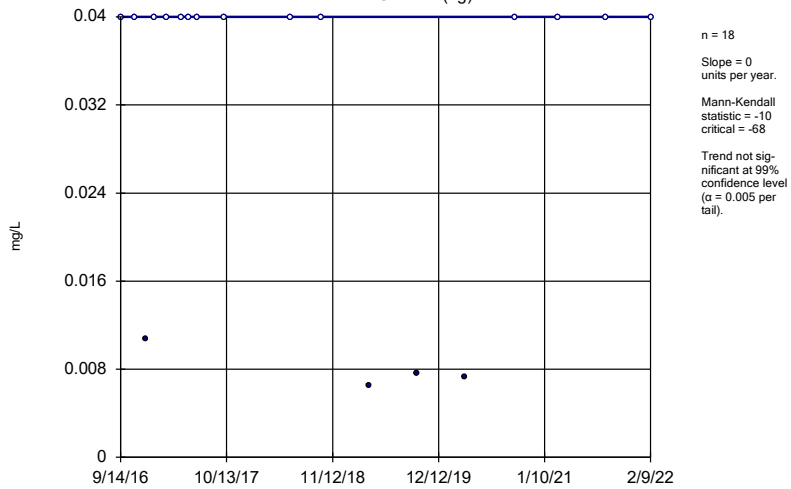
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -68

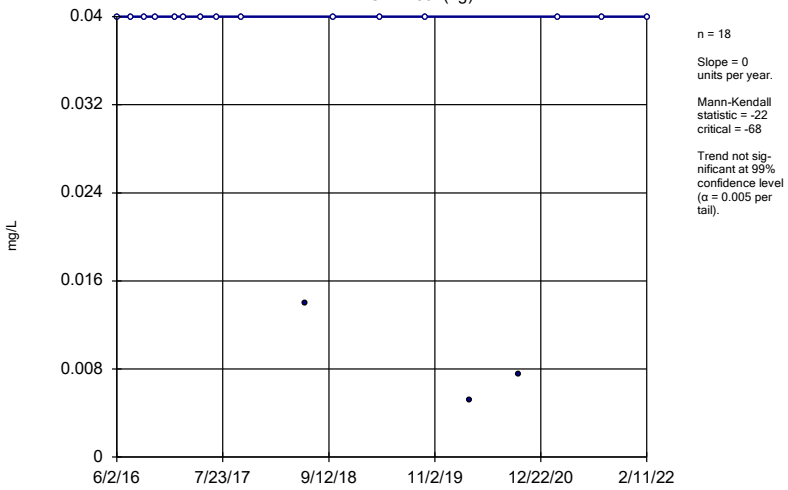
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -68

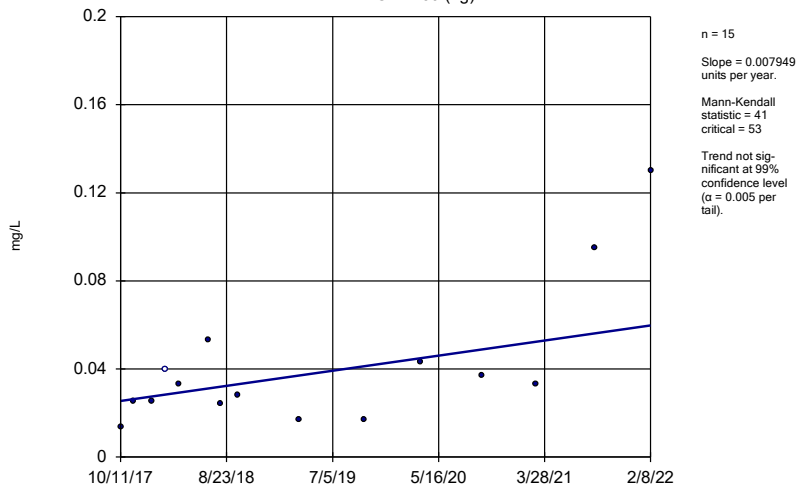
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.007949 units per year.

Mann-Kendall statistic = 41
critical = 53

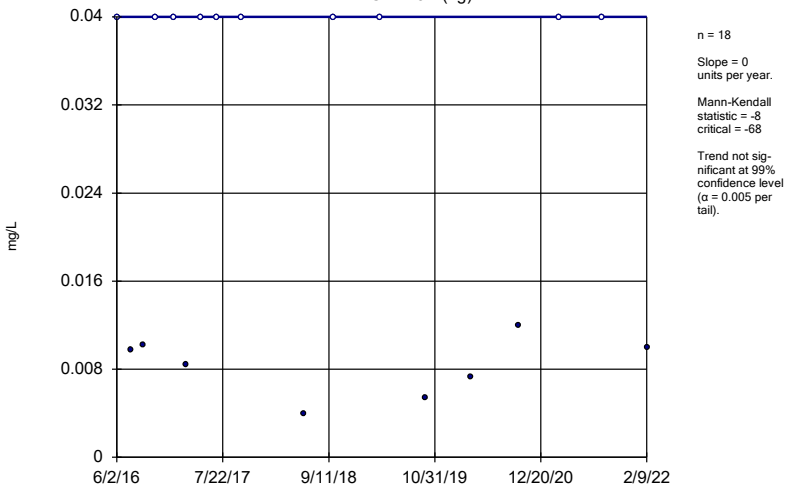
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -68

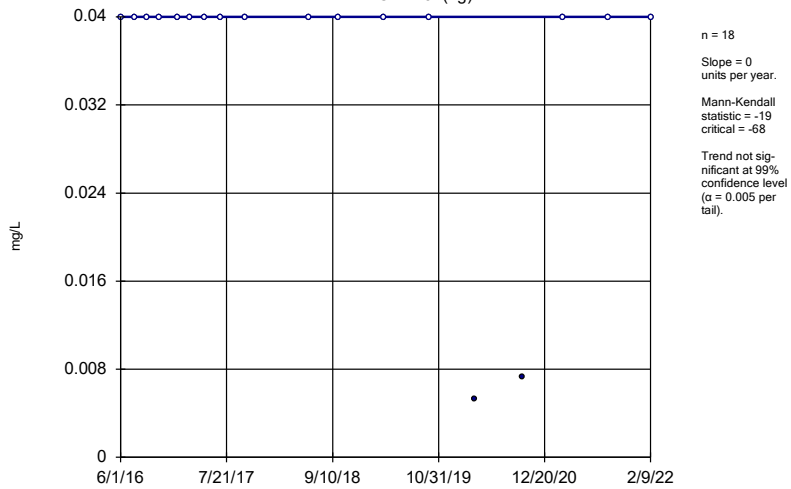
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -19
critical = -68

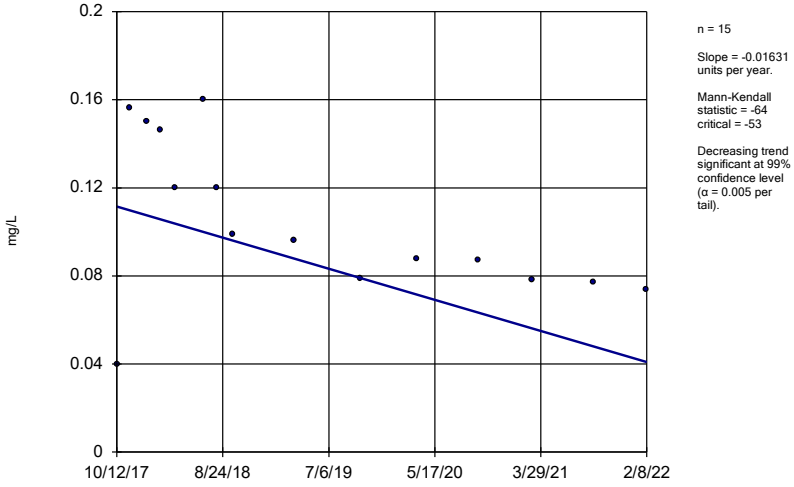
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.01631 units per year.

Mann-Kendall statistic = -64
critical = -53

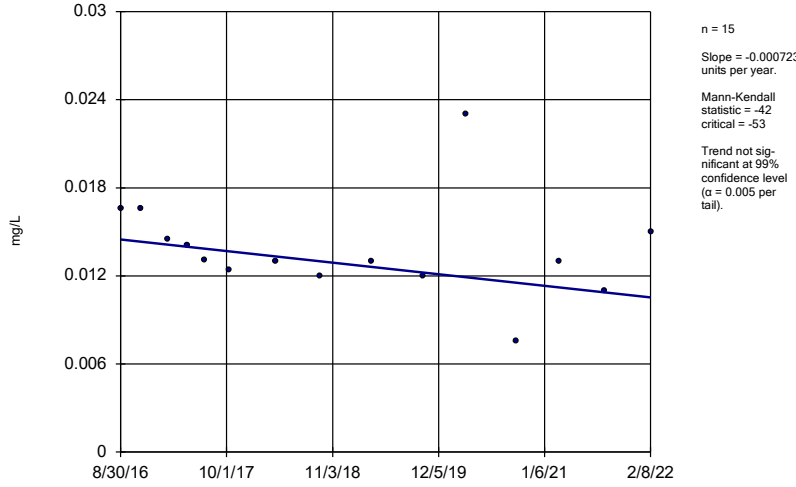
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.0007235 units per year.

Mann-Kendall statistic = -42
critical = -53

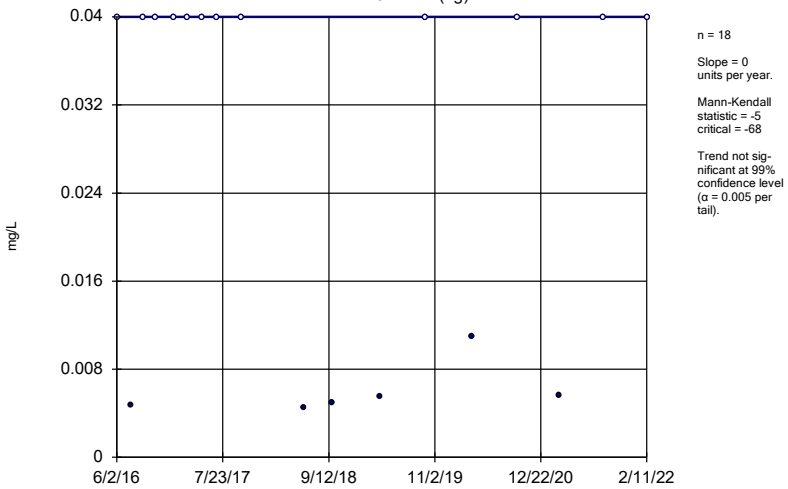
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -68

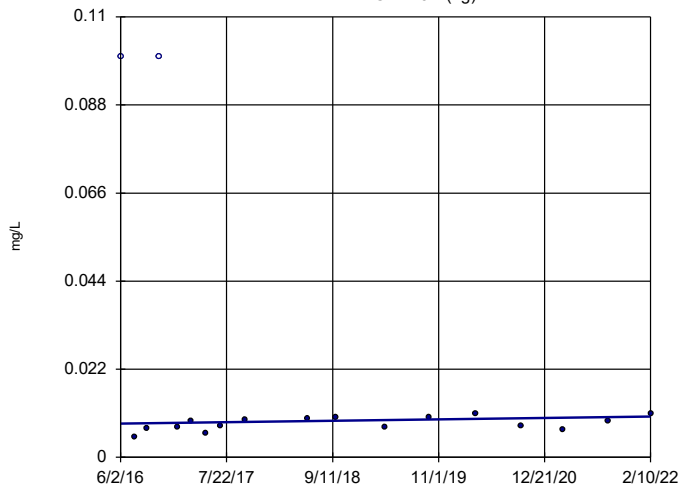
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = 0.0003037 units per year.

Mann-Kendall statistic = 26
critical = 68

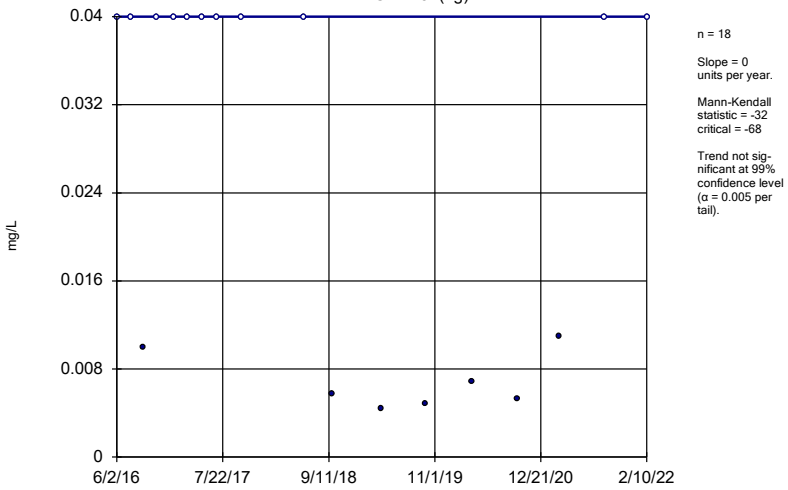
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -32
critical = -68

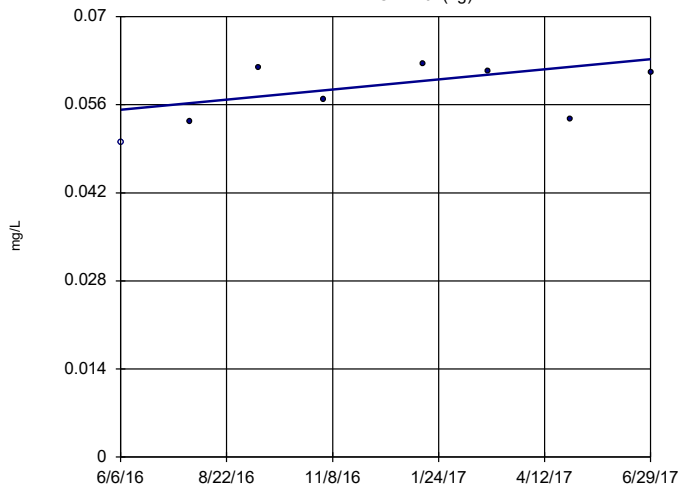
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-6I (bg)



n = 8

Slope = 0.007562 units per year.

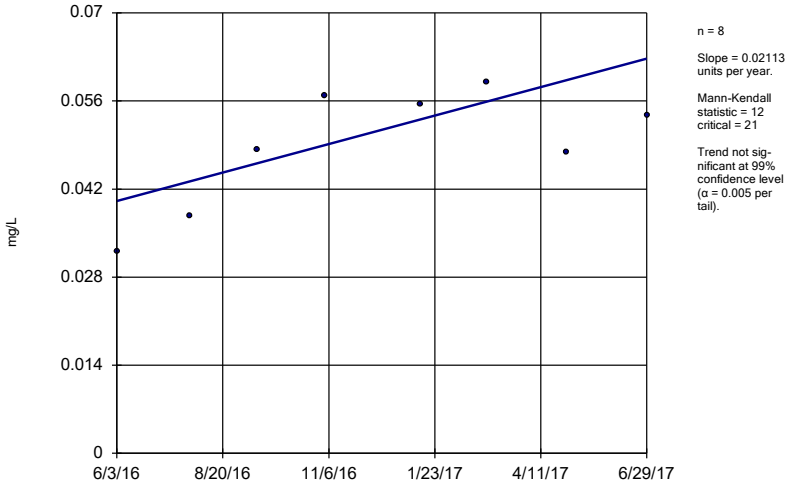
Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-6S (bg)



n = 8

Slope = 0.02113 units per year.

Mann-Kendall statistic = 12
critical = 21

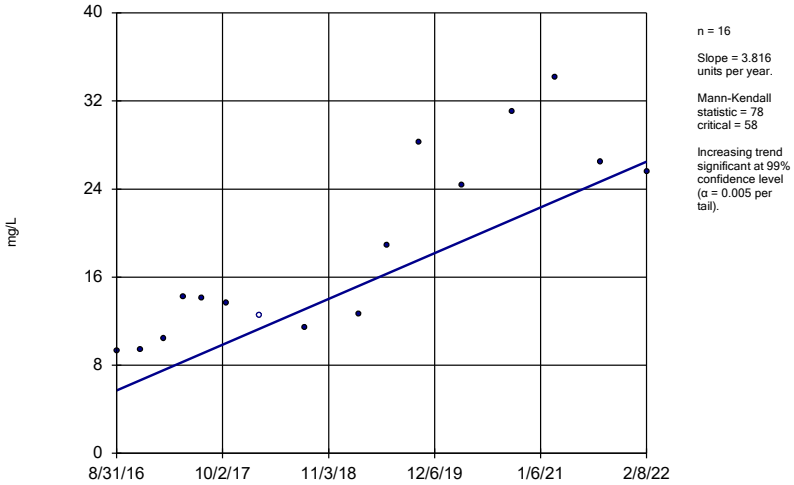
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 3.816 units per year.

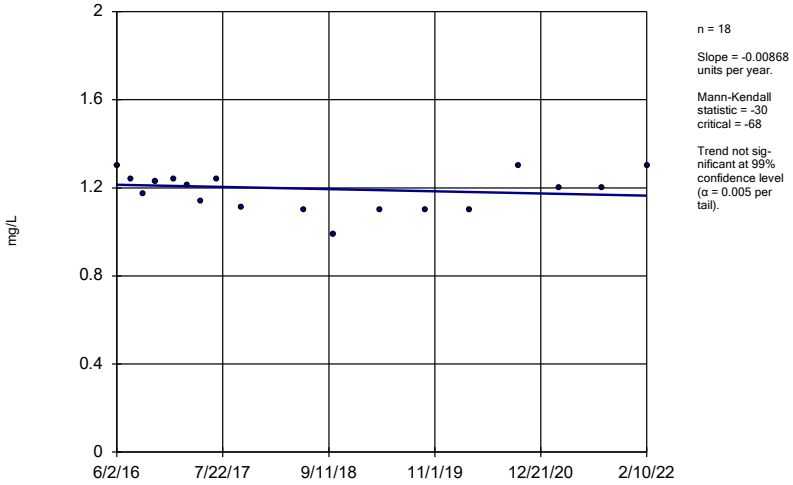
Mann-Kendall statistic = 78
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.00868 units per year.

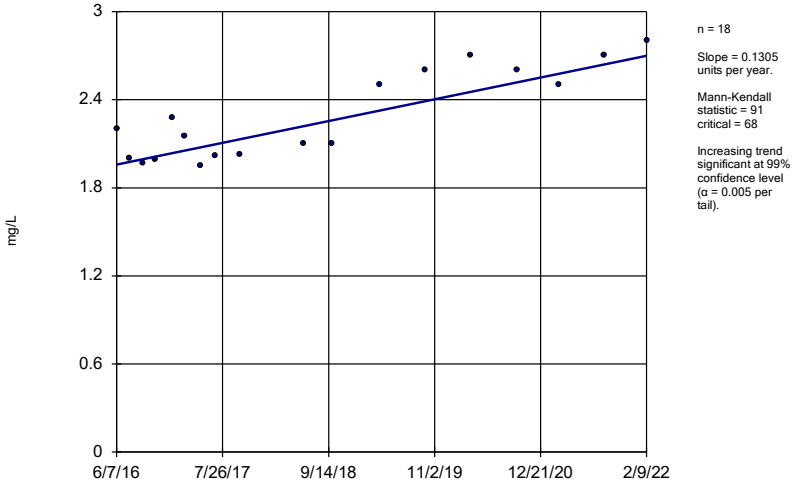
Mann-Kendall statistic = -30
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.1305 units per year.

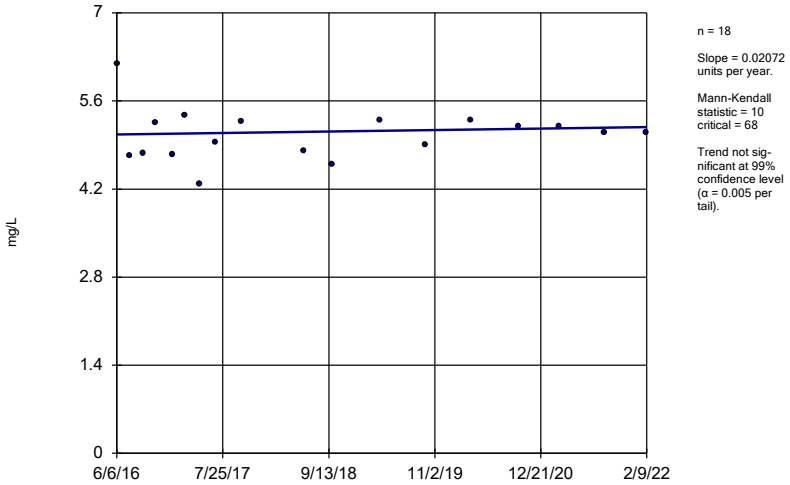
Mann-Kendall statistic = 91
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.02072 units per year.

Mann-Kendall statistic = 10
critical = 68

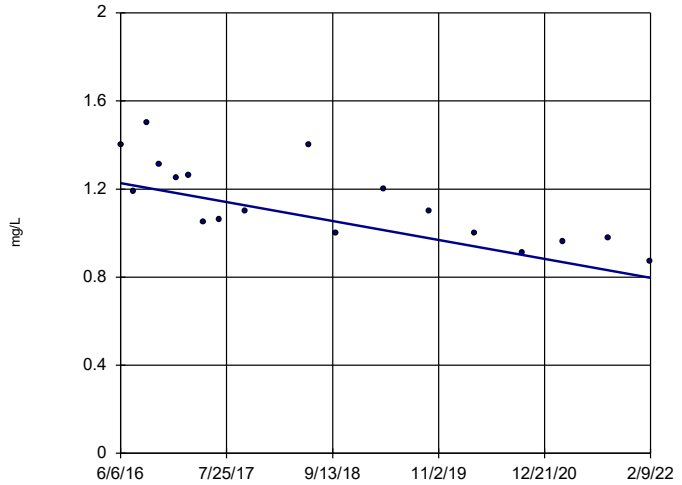
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.07569 units per year.

Mann-Kendall statistic = -96
critical = -68

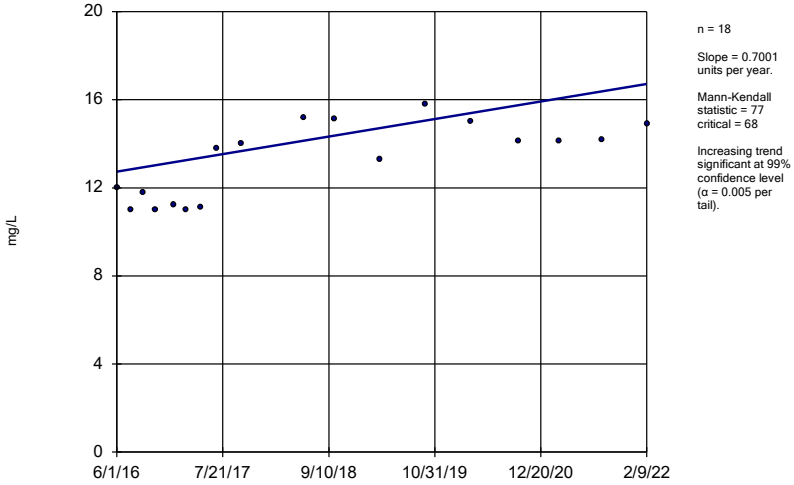
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.7001 units per year.

Mann-Kendall statistic = 77
critical = 68

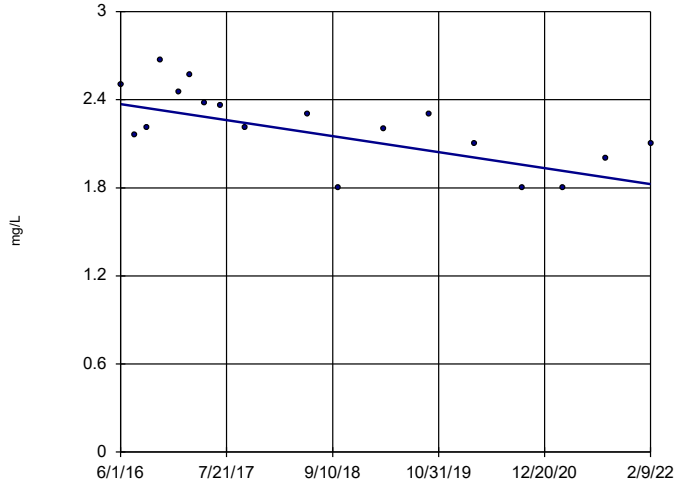
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.0958 units per year.

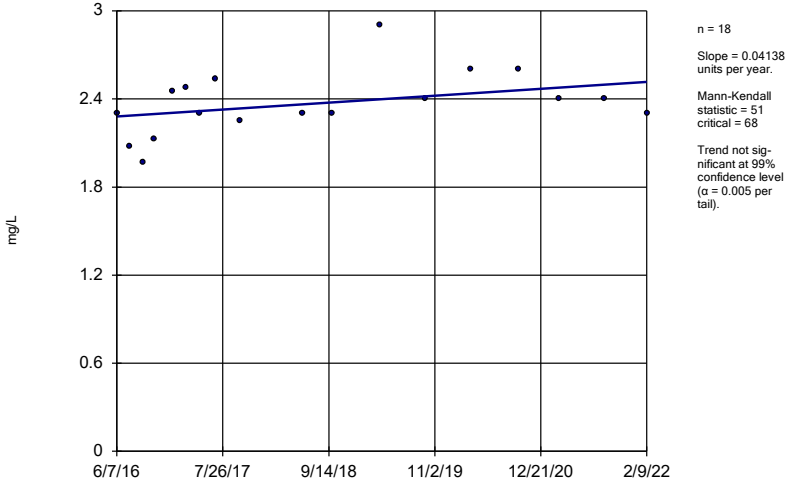
Mann-Kendall statistic = -81
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.04138 units per year.

Mann-Kendall statistic = 51 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

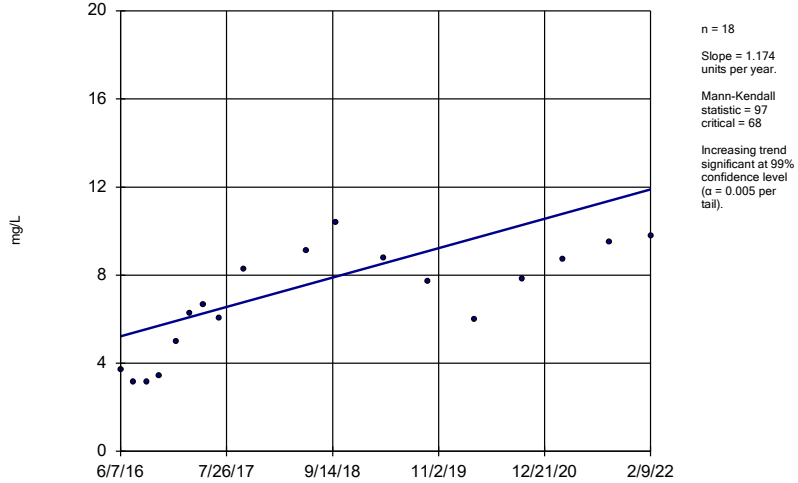
Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 1.174 units per year.

Mann-Kendall statistic = 97 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

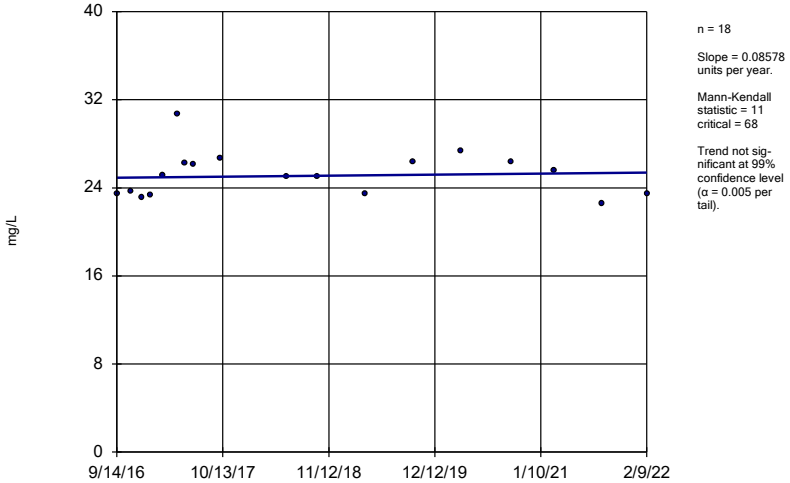
Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.08578 units per year.

Mann-Kendall statistic = 11 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

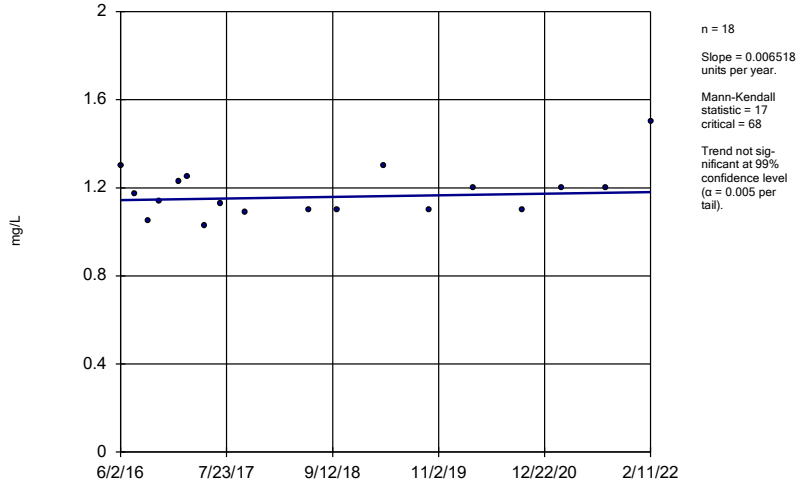
Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0.006518 units per year.

Mann-Kendall statistic = 17 critical = 68

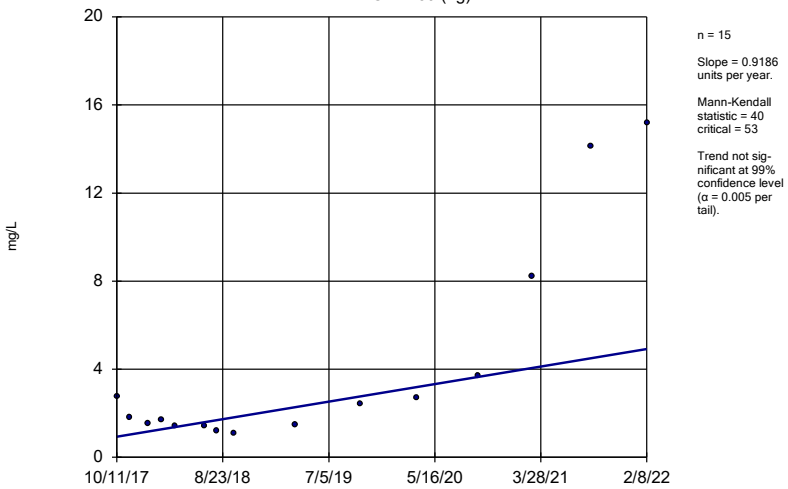
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.9186 units per year.

Mann-Kendall statistic = 40 critical = 53

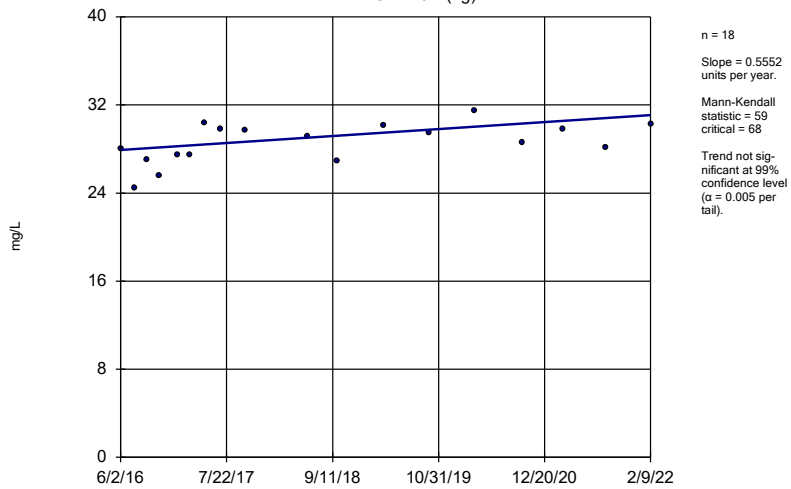
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.5552 units per year.

Mann-Kendall statistic = 59 critical = 68

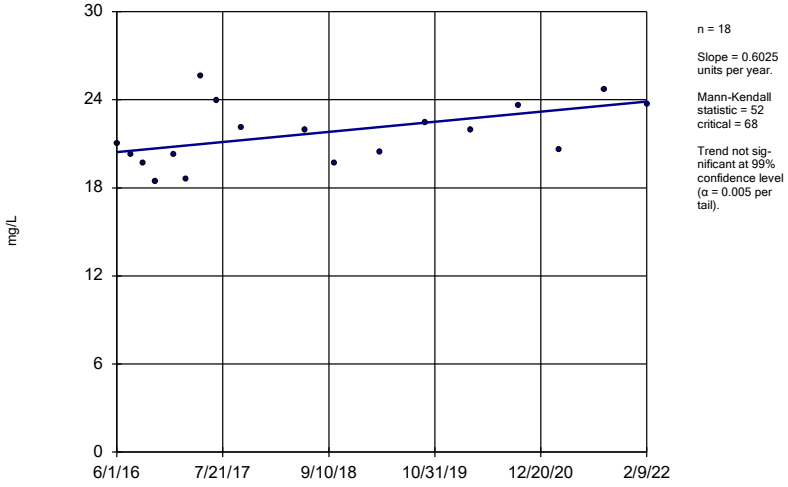
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0.6025 units per year.

Mann-Kendall statistic = 52 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

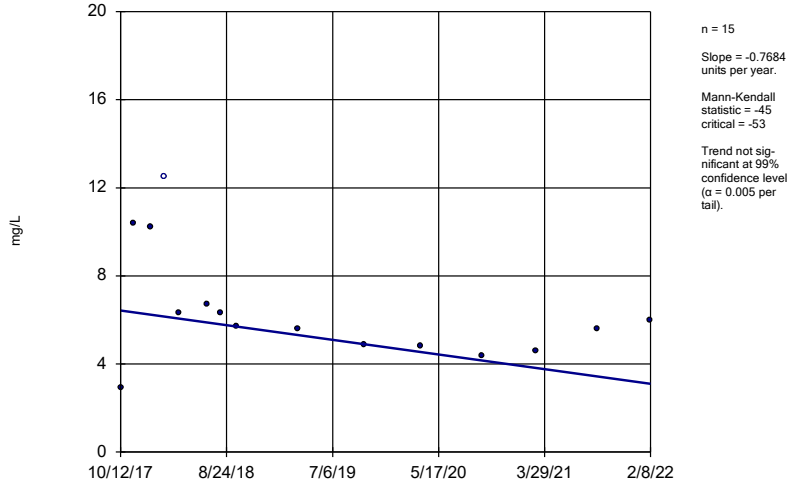
Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.7684 units per year.

Mann-Kendall statistic = -45 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:10 PM View: Appendix III - Trend Tests

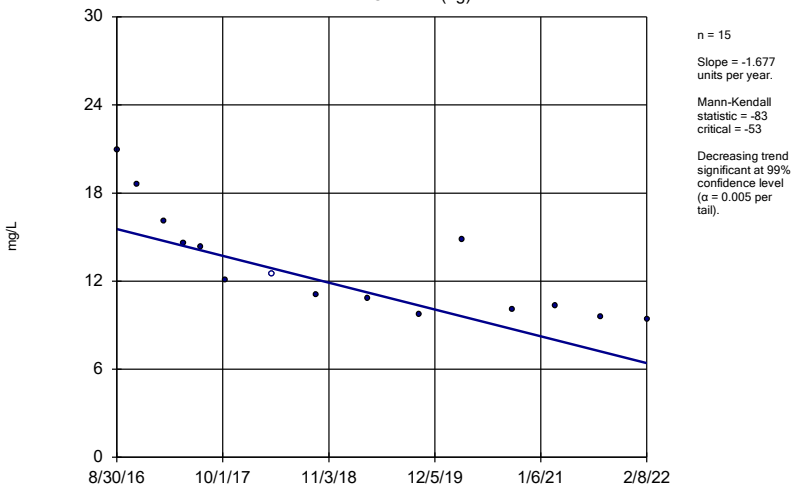
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -1.677 units per year.

Mann-Kendall statistic = -83
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

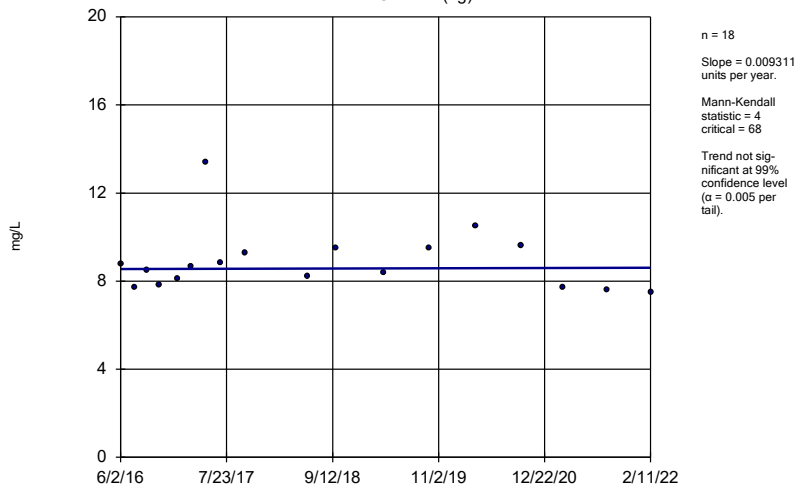
Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.009311 units per year.

Mann-Kendall statistic = 4
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

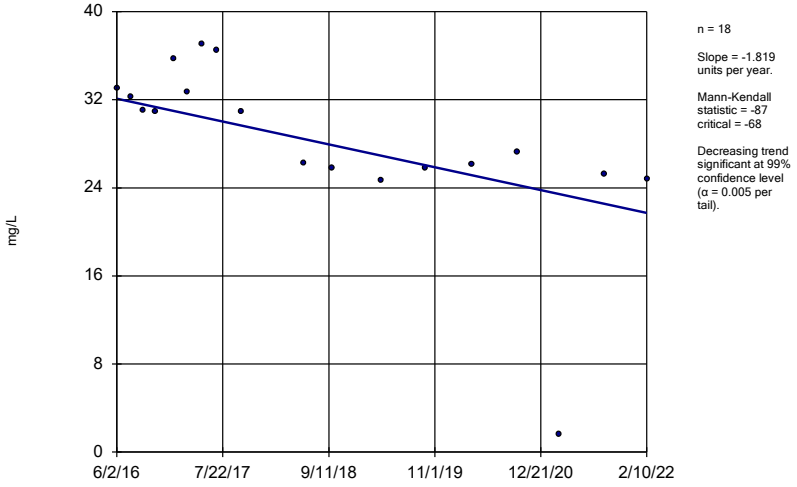
Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -1.819 units per year.

Mann-Kendall statistic = -87
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

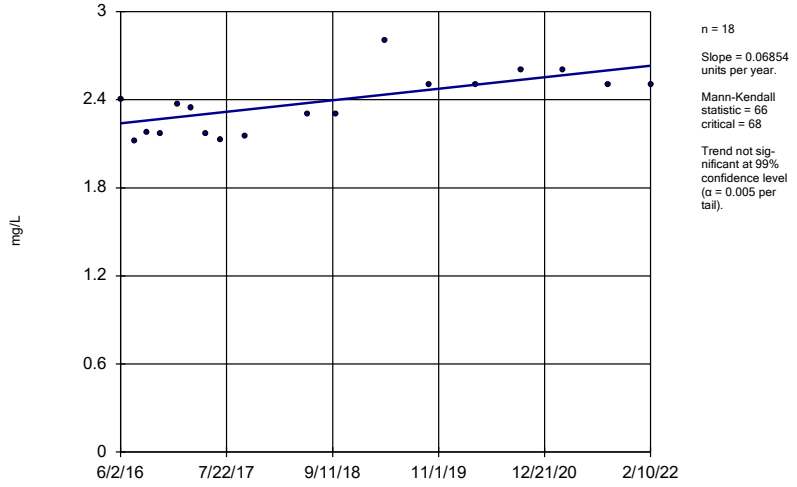
Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.06854 units per year.

Mann-Kendall statistic = 66
critical = 68

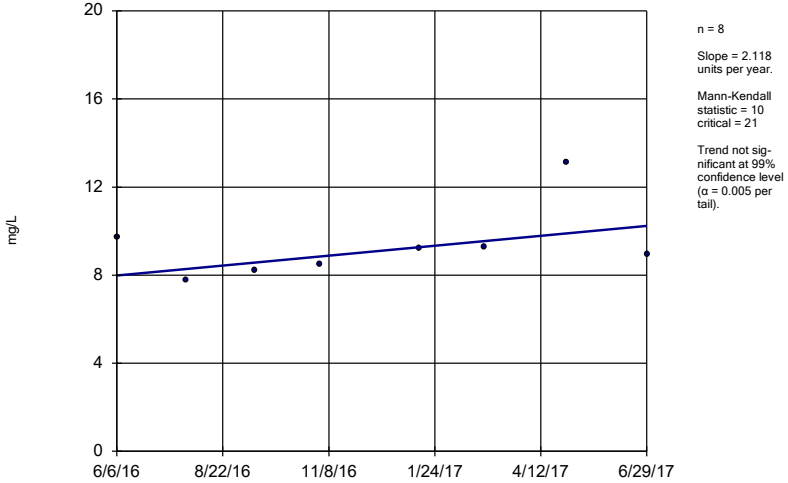
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-6I (bg)



n = 8

Slope = 2.118 units per year.

Mann-Kendall statistic = 10 critical = 21

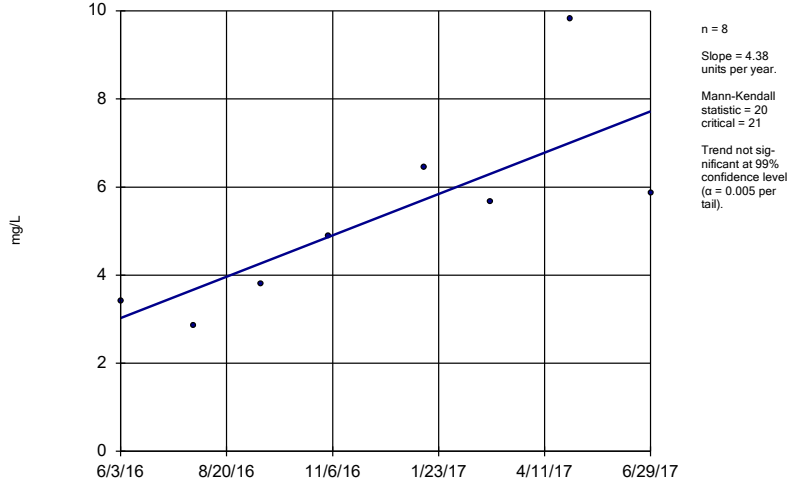
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-6S (bg)



n = 8

Slope = 4.38 units per year.

Mann-Kendall statistic = 20 critical = 21

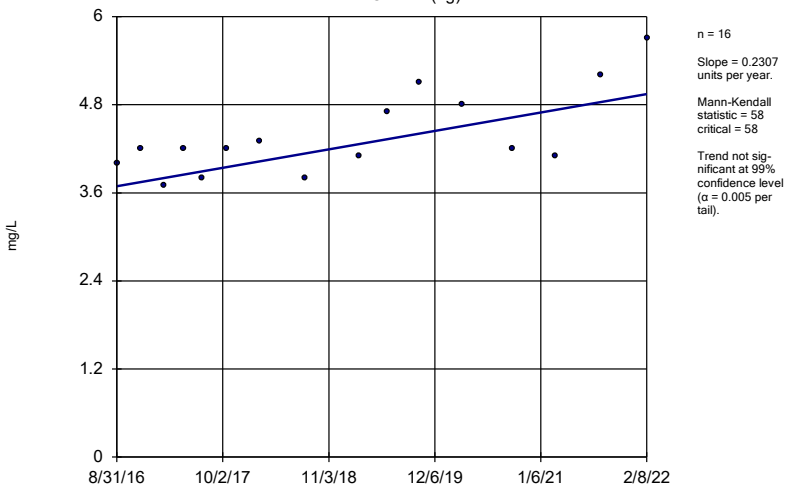
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0.2307 units per year.

Mann-Kendall statistic = 58 critical = 58

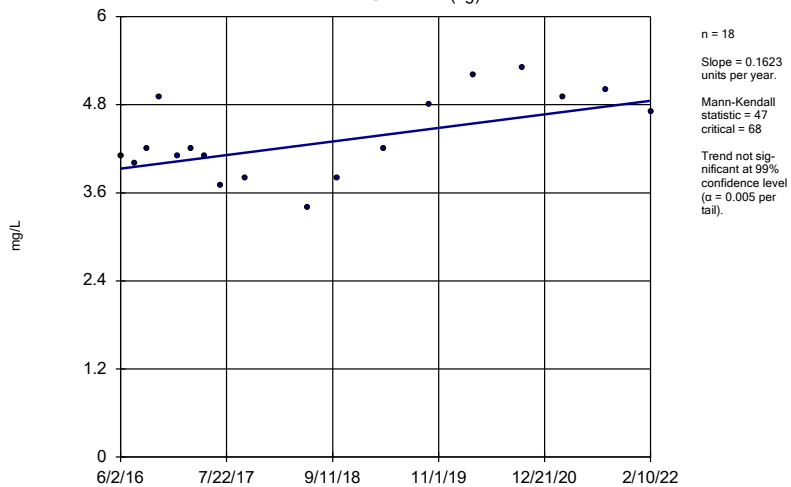
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.1623 units per year.

Mann-Kendall statistic = 47 critical = 68

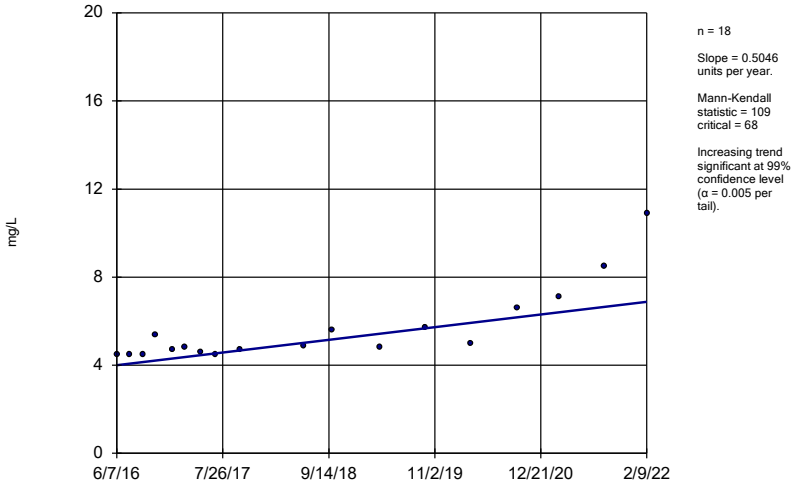
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.5046 units per year.

Mann-Kendall statistic = 109
critical = 68

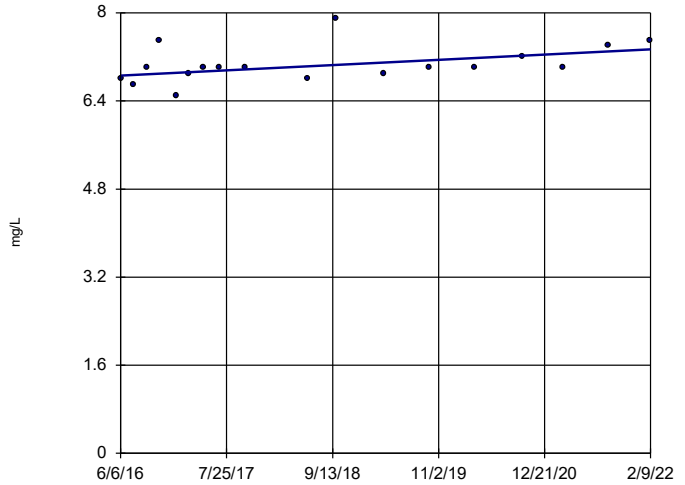
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.0841 units per year.

Mann-Kendall statistic = 61
critical = 68

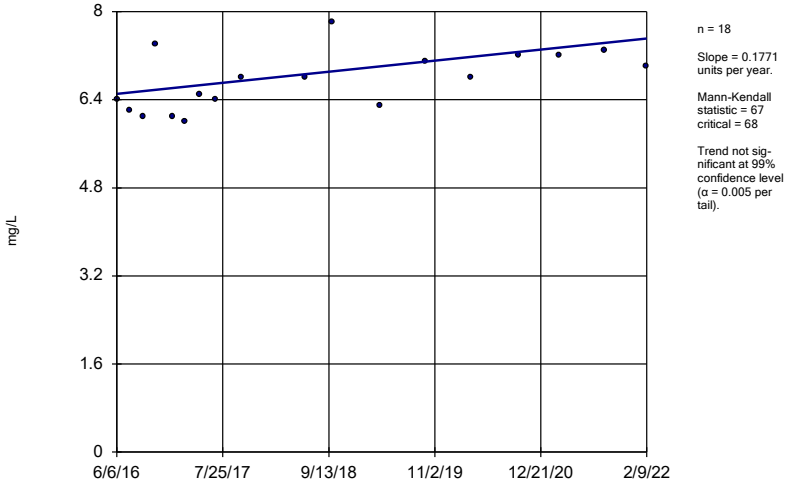
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.1771 units per year.

Mann-Kendall statistic = 67
critical = 68

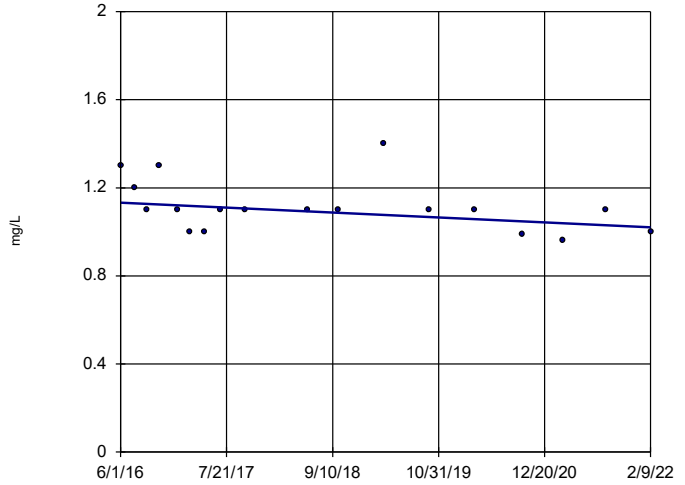
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = -0.01968 units per year.

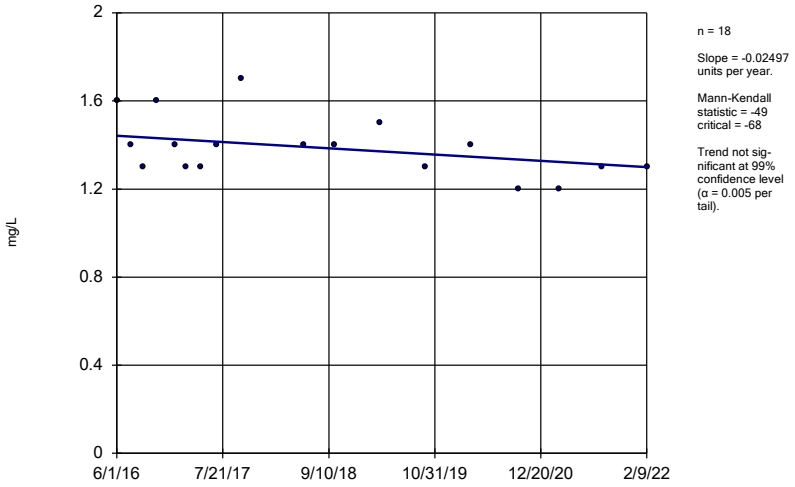
Mann-Kendall statistic = -51
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.02497 units per year.

Mann-Kendall statistic = -49
critical = -68

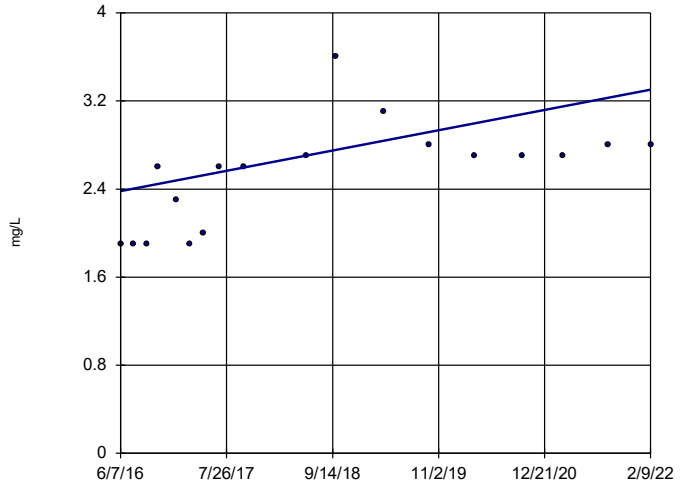
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.1624 units per year.

Mann-Kendall statistic = 93
critical = 68

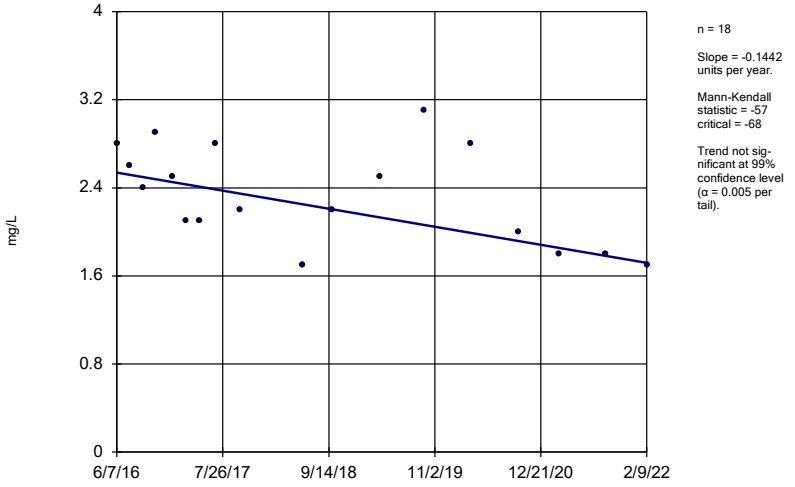
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.1442 units per year.

Mann-Kendall statistic = -57
critical = -68

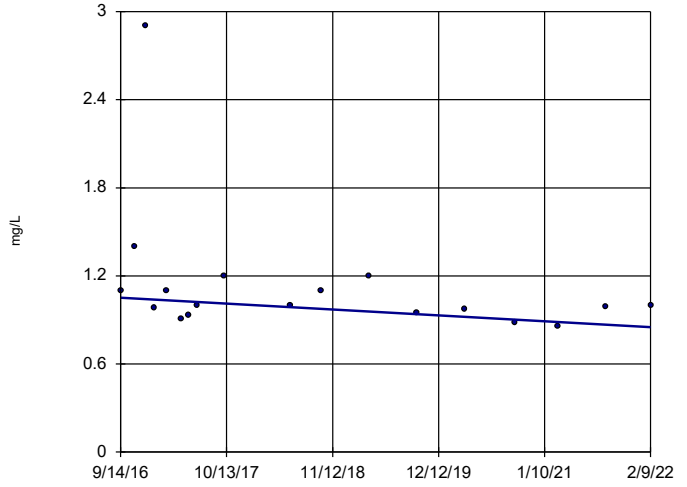
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -0.03702 units per year.

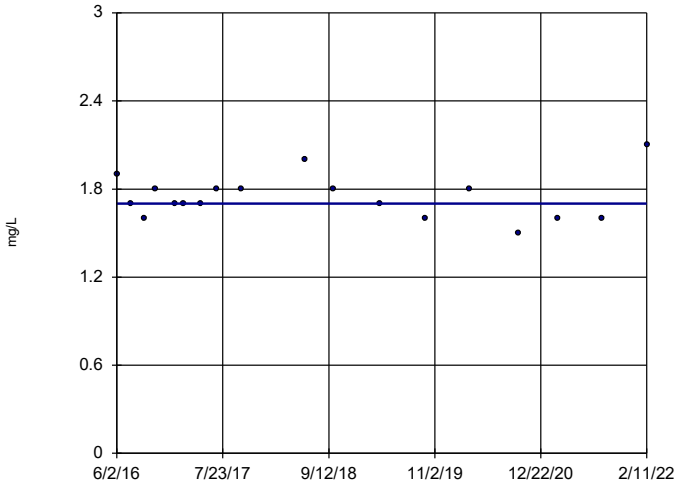
Mann-Kendall statistic = -46
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -68

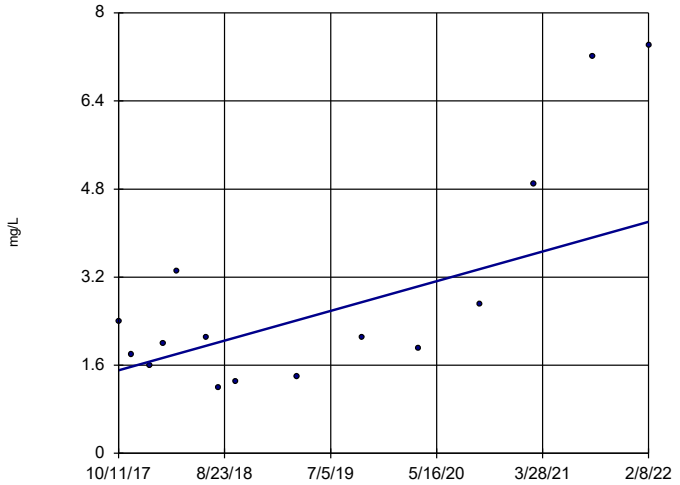
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.6239 units per year.

Mann-Kendall statistic = 40
critical = 53

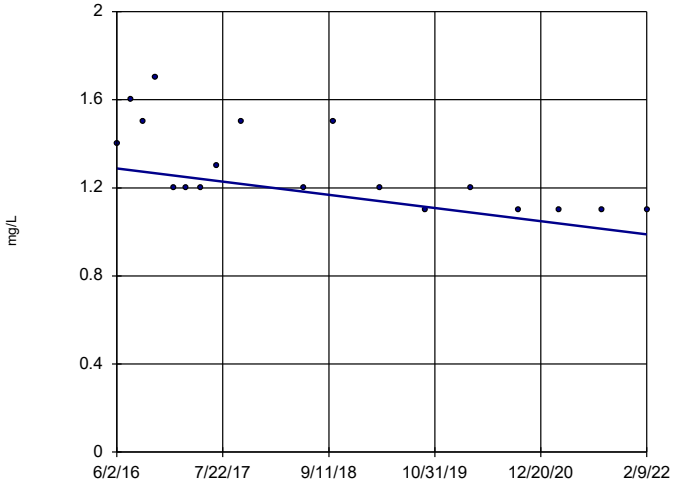
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = -0.05275 units per year.

Mann-Kendall statistic = -85
critical = -68

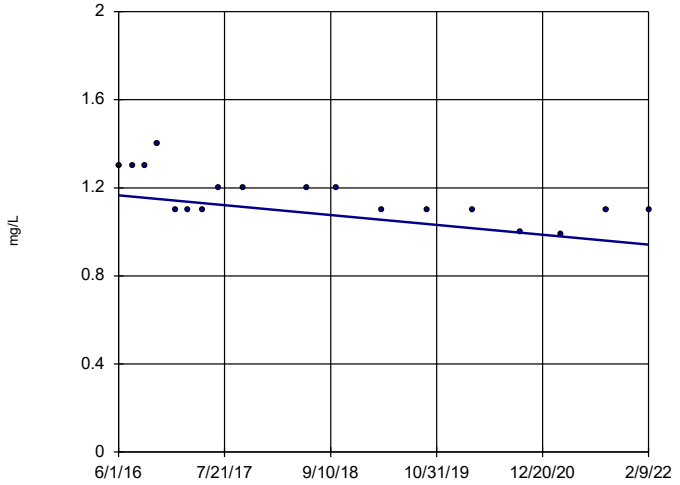
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = -0.03927 units per year.

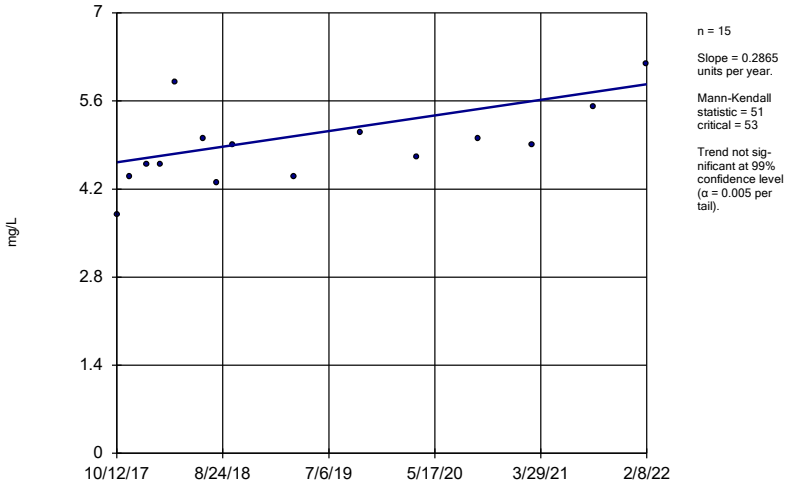
Mann-Kendall statistic = -78
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = 0.2865 units per year.

Mann-Kendall statistic = 51
critical = 53

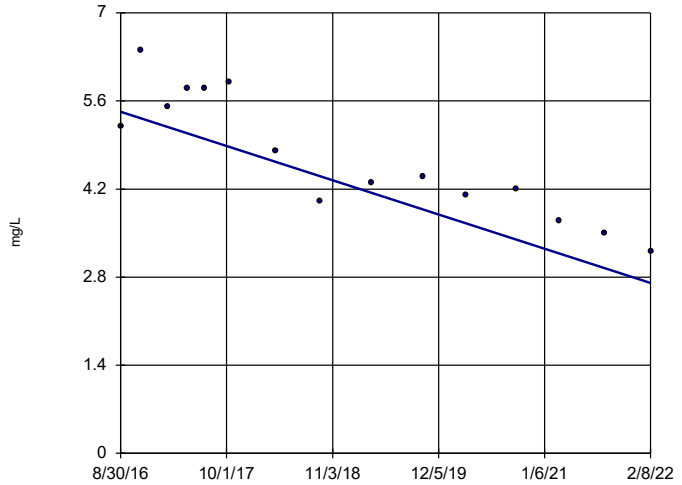
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.4996 units per year.

Mann-Kendall statistic = -72
critical = -53

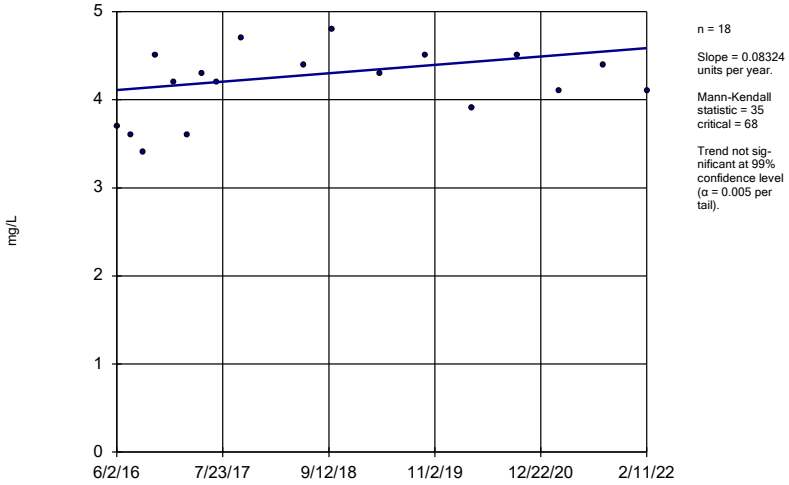
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.08324 units per year.

Mann-Kendall statistic = 35
critical = 68

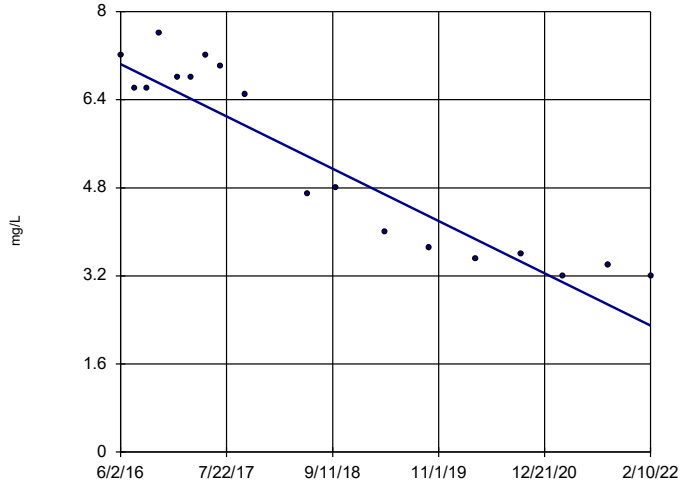
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -0.8339 units per year.

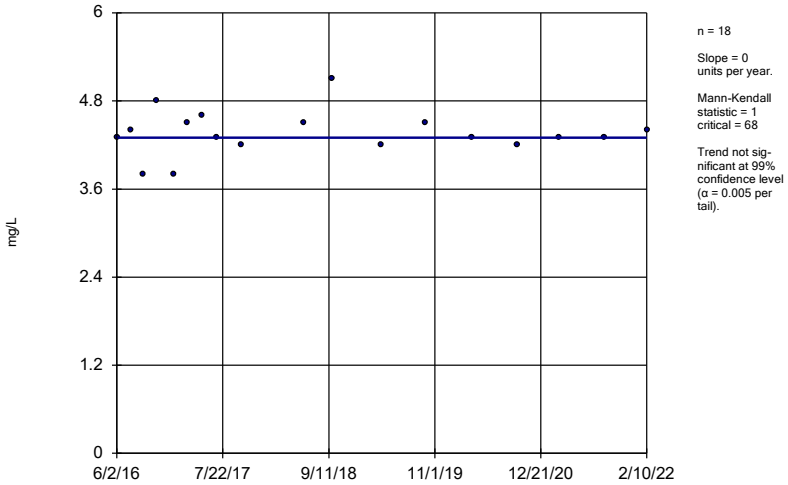
Mann-Kendall statistic = -113
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

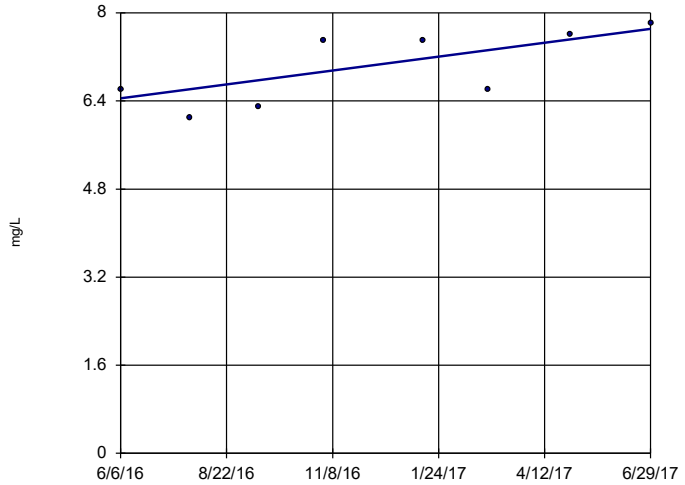
Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-6I (bg)



n = 8

Slope = 1.183 units per year.

Mann-Kendall statistic = 18 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

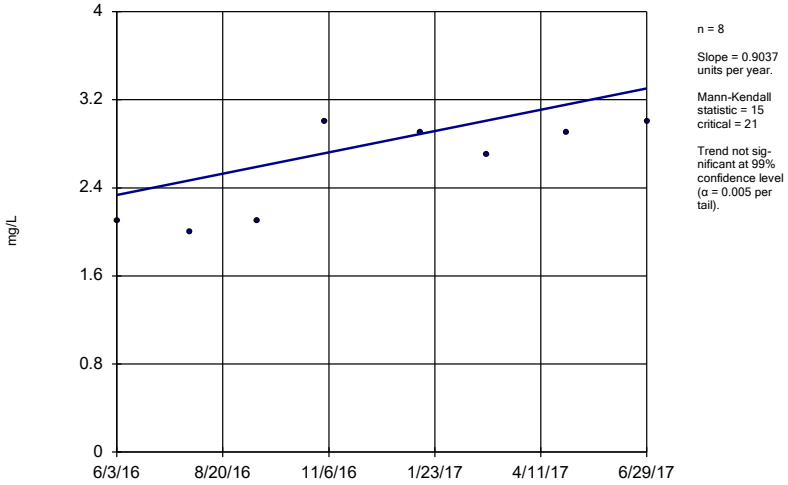
Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-6S (bg)



n = 8

Slope = 0.9037 units per year.

Mann-Kendall statistic = 15 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

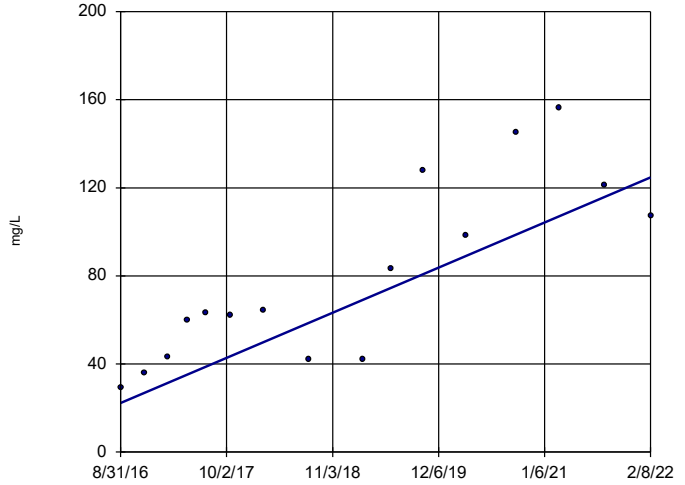
Constituent: Chloride Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 18.82 units per year.

Mann-Kendall statistic = 81 critical = 58

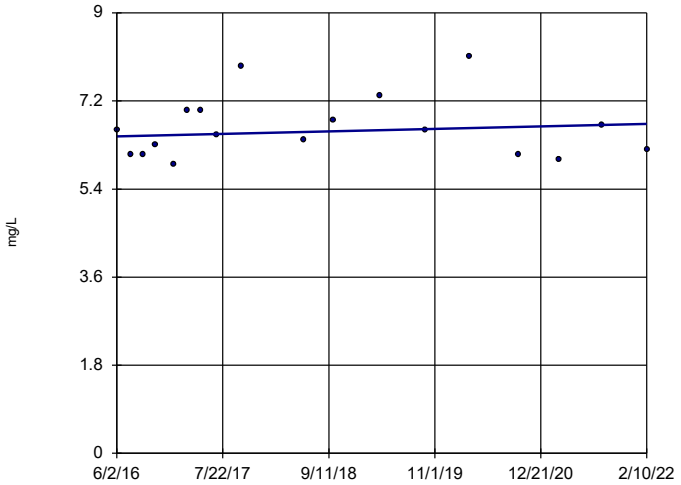
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.04468 units per year.

Mann-Kendall statistic = 14 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

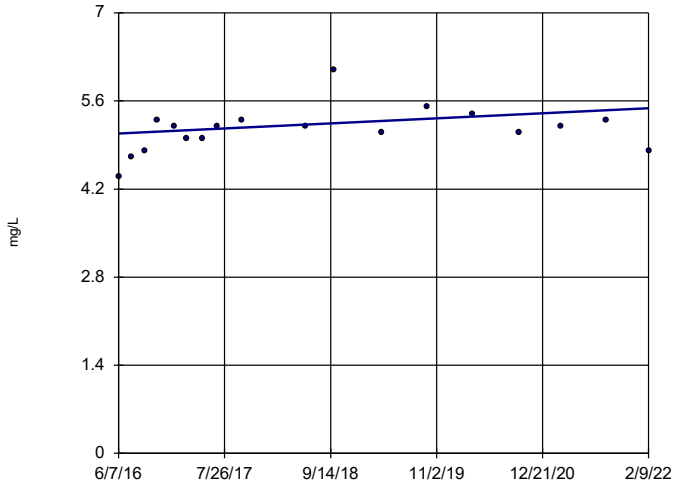
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.07043 units per year.

Mann-Kendall statistic = 47 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

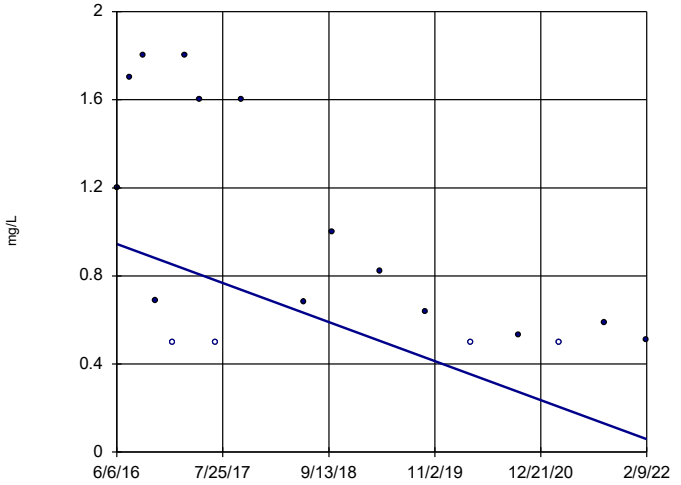
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.1558 units per year.

Mann-Kendall statistic = -69 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

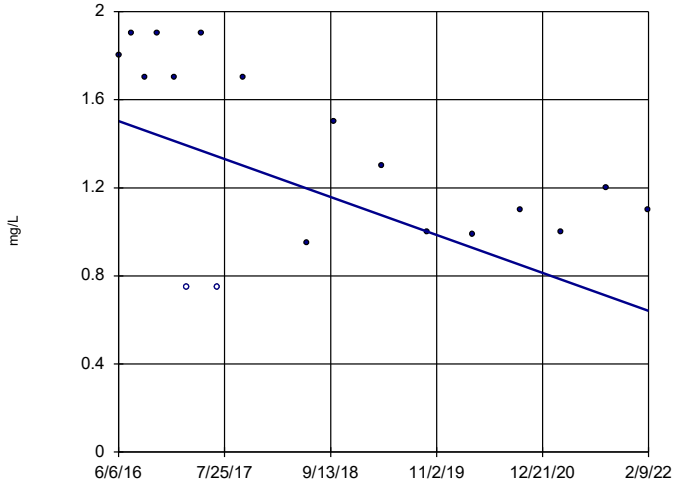
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.1518 units per year.

Mann-Kendall statistic = -54 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

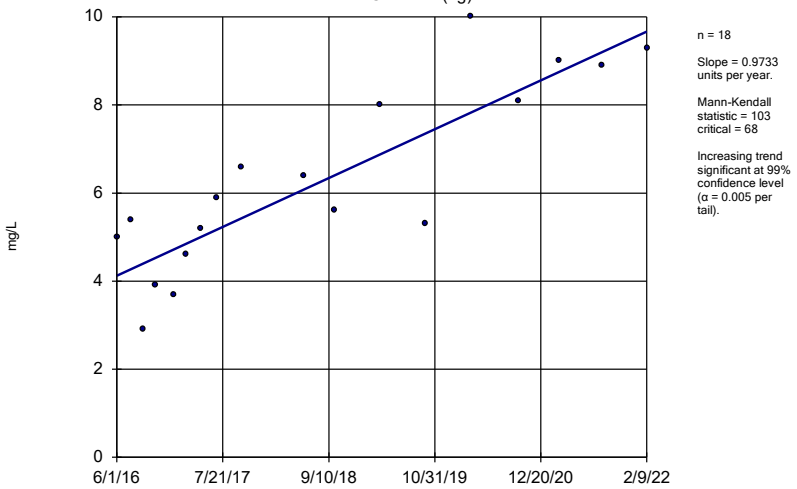
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.9733 units per year.

Mann-Kendall statistic = 103 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

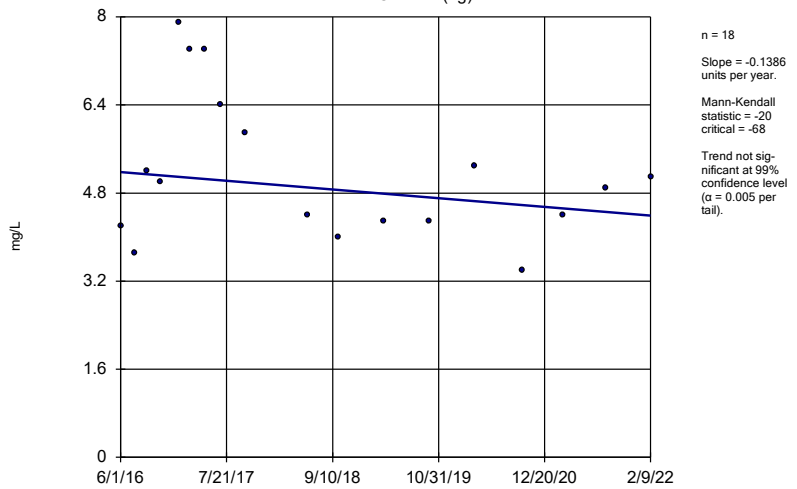
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.1386 units per year.

Mann-Kendall statistic = -20 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

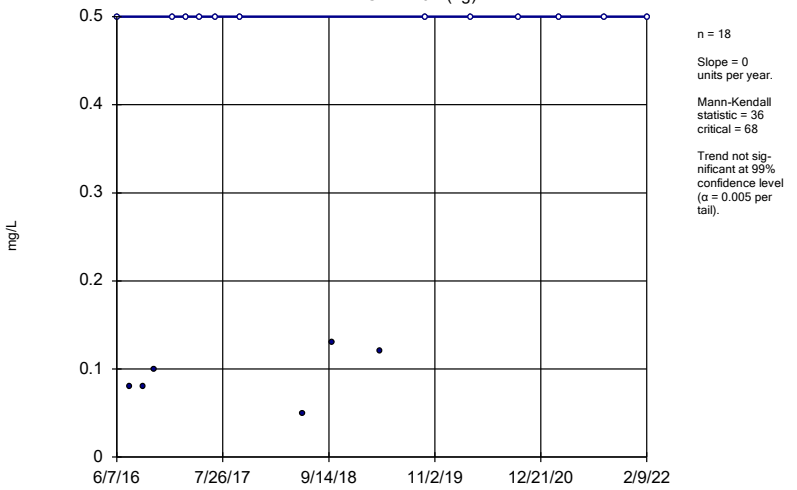
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 36 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

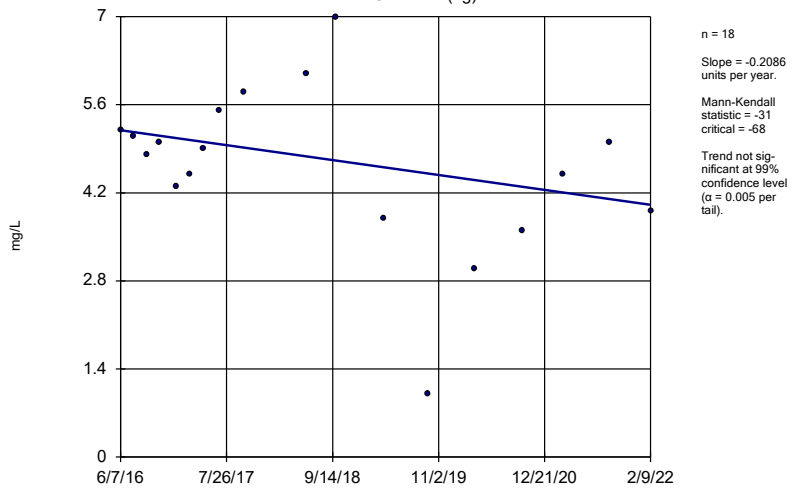
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.2086 units per year.

Mann-Kendall statistic = -31 critical = -68

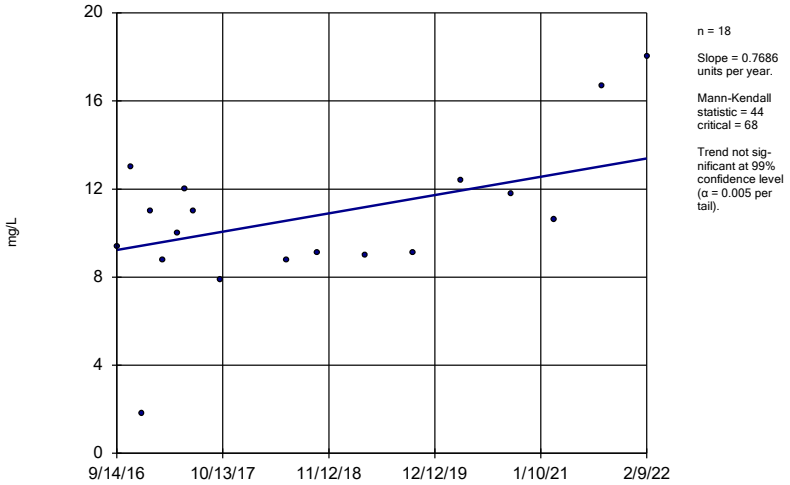
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.7686 units per year.

Mann-Kendall statistic = 44
critical = 68

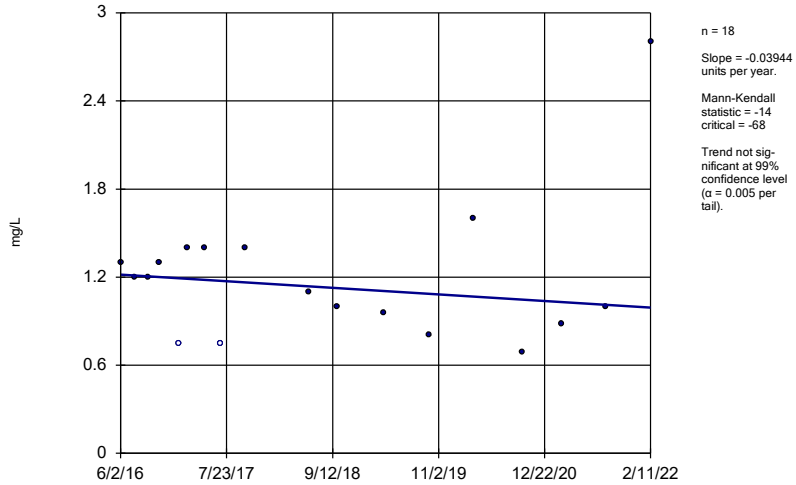
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = -0.03944 units per year.

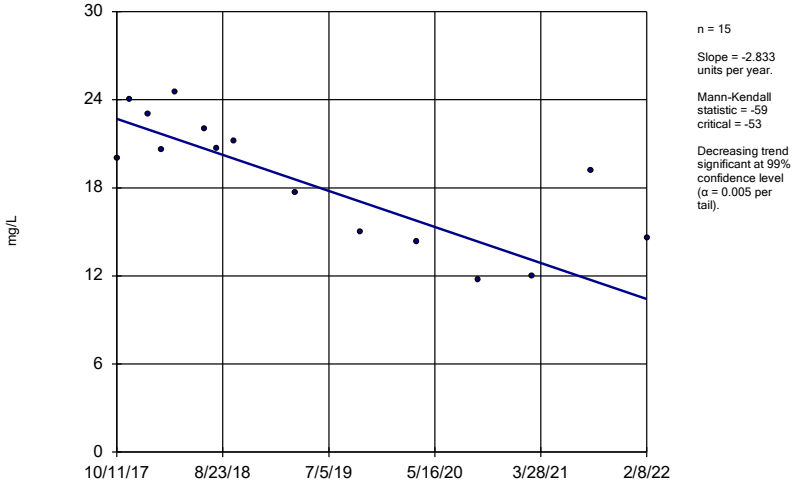
Mann-Kendall statistic = -14
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = -2.833 units per year.

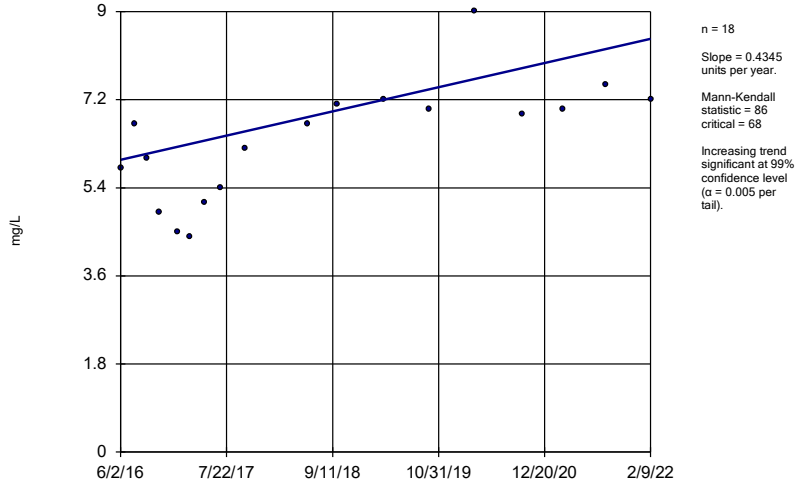
Mann-Kendall statistic = -59
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.4345 units per year.

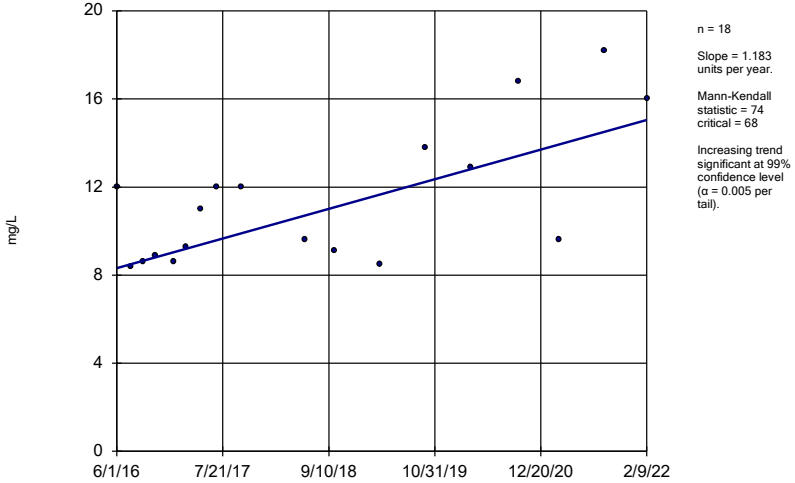
Mann-Kendall statistic = 86
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 1.183 units per year.

Mann-Kendall statistic = 74
critical = 68

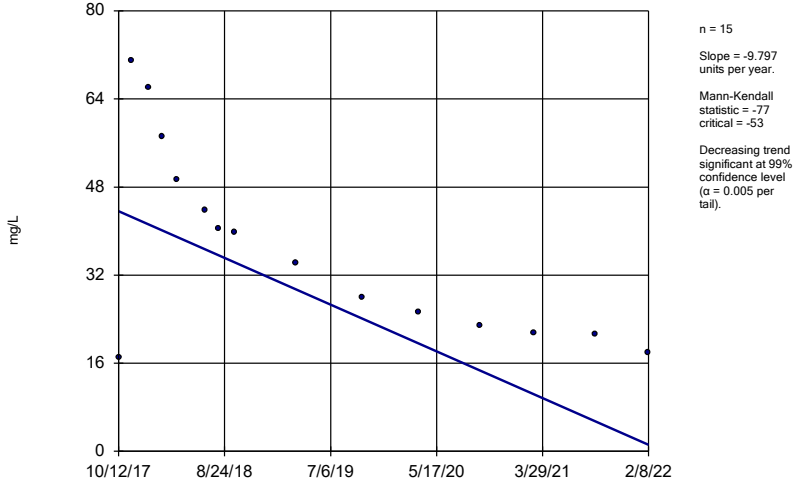
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -9.797 units per year.

Mann-Kendall statistic = -77
critical = -53

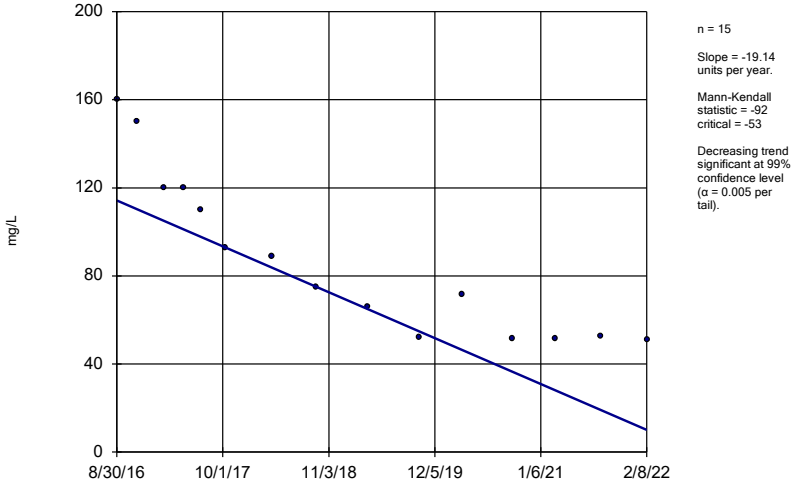
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -19.14 units per year.

Mann-Kendall statistic = -92
critical = -53

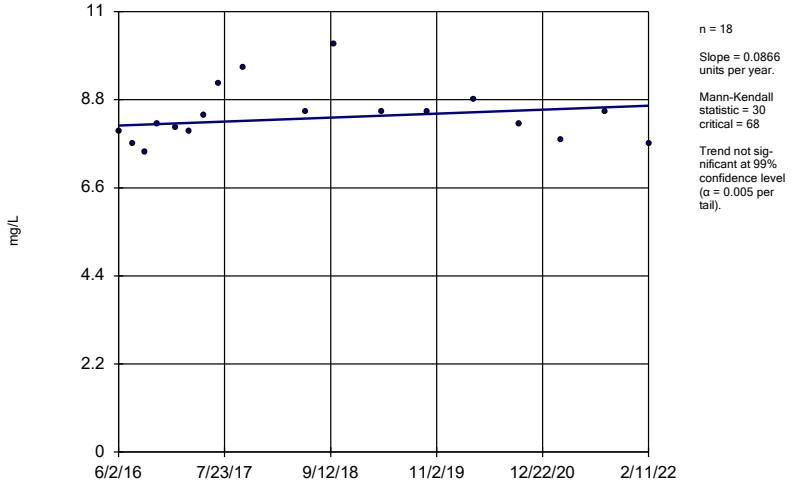
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.0866 units per year.

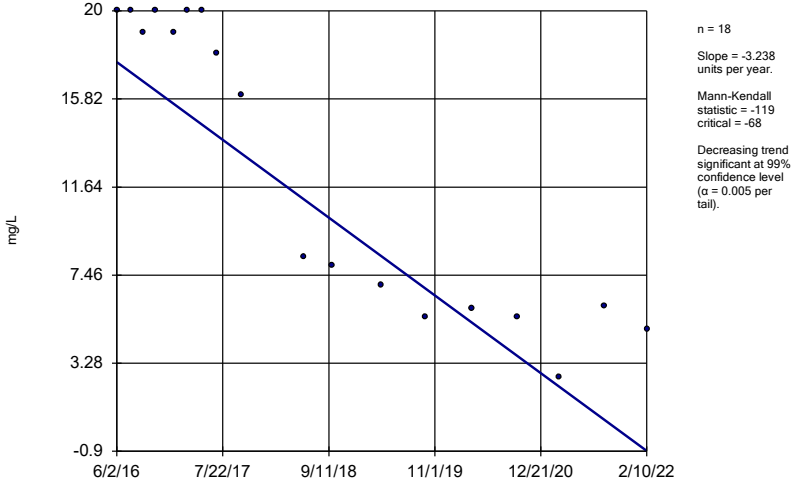
Mann-Kendall statistic = 30
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -3.238 units per year.

Mann-Kendall statistic = -119 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

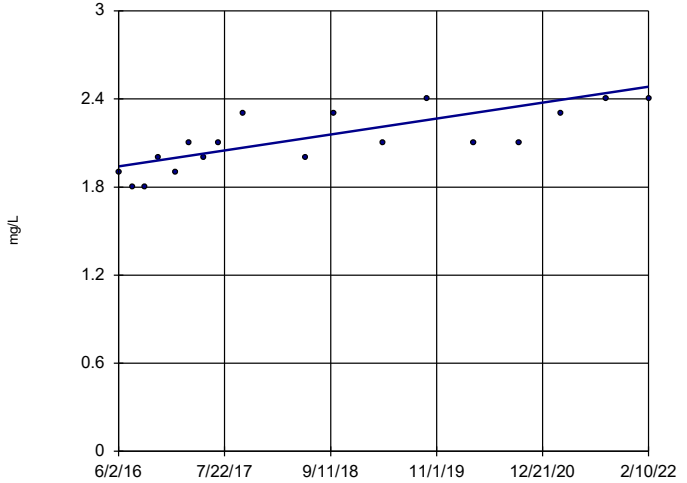
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.0955 units per year.

Mann-Kendall statistic = 100 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

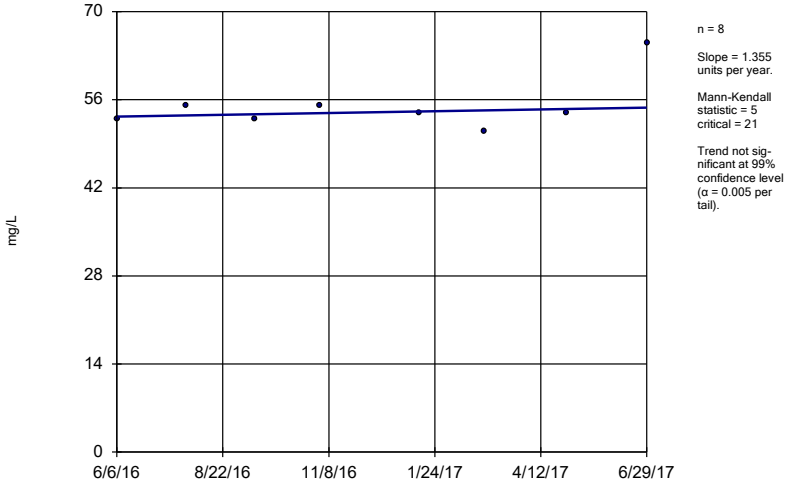
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-6I (bg)



n = 8

Slope = 1.355 units per year.

Mann-Kendall statistic = 5 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

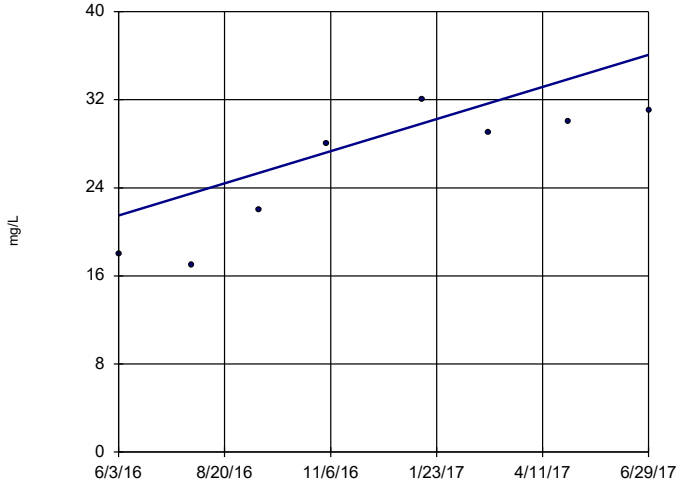
Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-6S (bg)



n = 8

Slope = 13.62 units per year.

Mann-Kendall statistic = 20 critical = 21

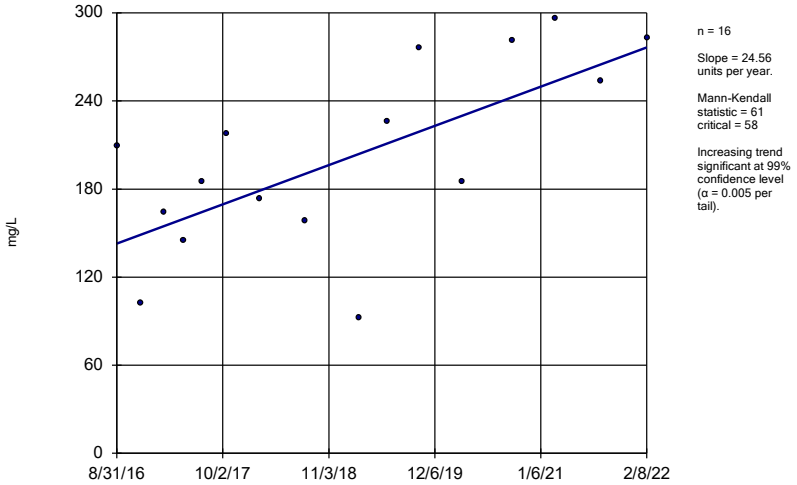
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 24.56 units per year.

Mann-Kendall statistic = 61 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

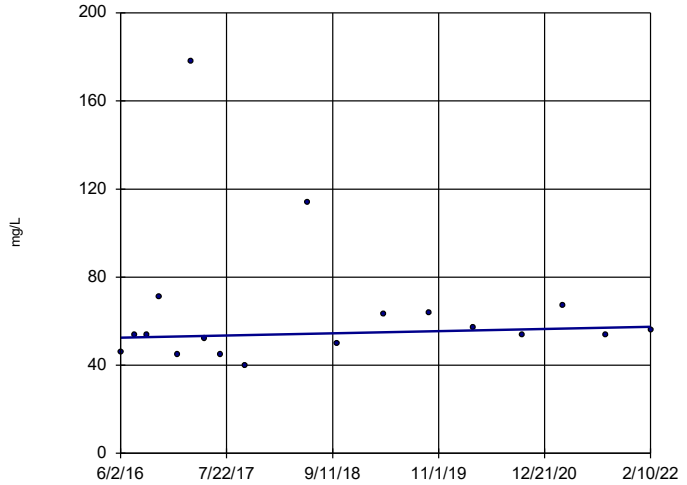
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.8555 units per year.

Mann-Kendall statistic = 20 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

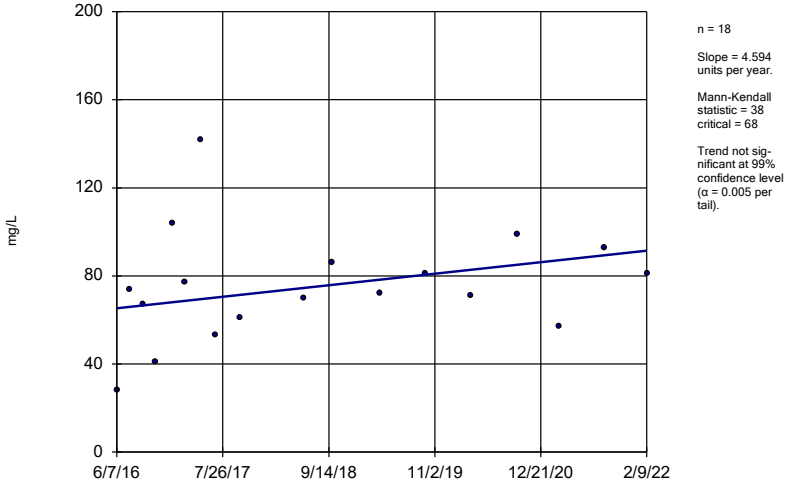
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 4.594 units per year.

Mann-Kendall statistic = 38 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

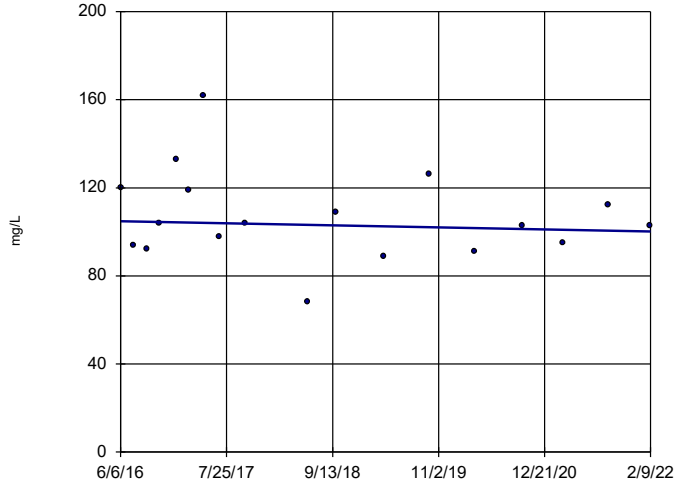
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.8196 units per year.

Mann-Kendall statistic = -15 critical = -68

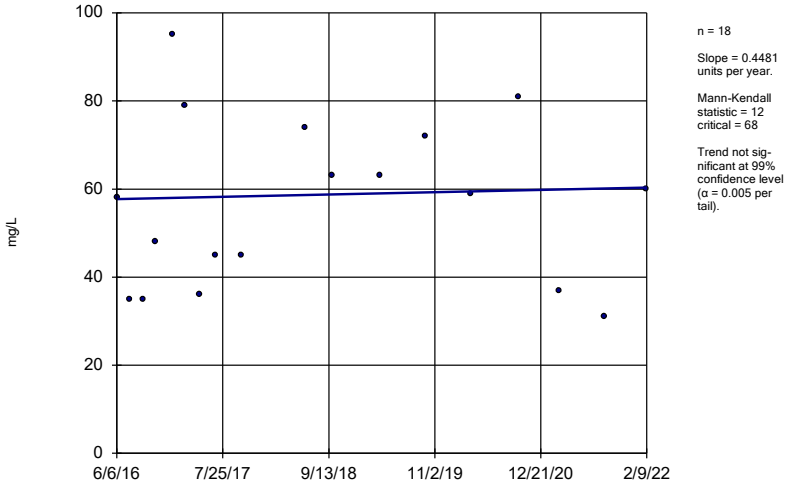
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.4481 units per year.

Mann-Kendall statistic = 12
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

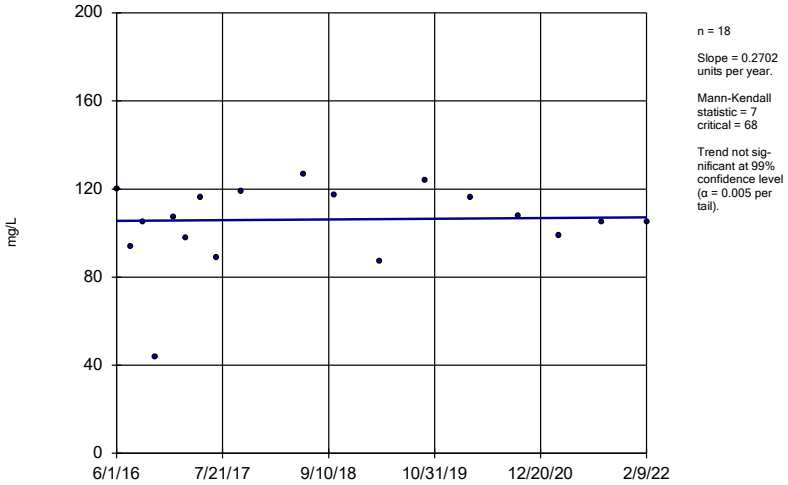
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.2702 units per year.

Mann-Kendall statistic = 7
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

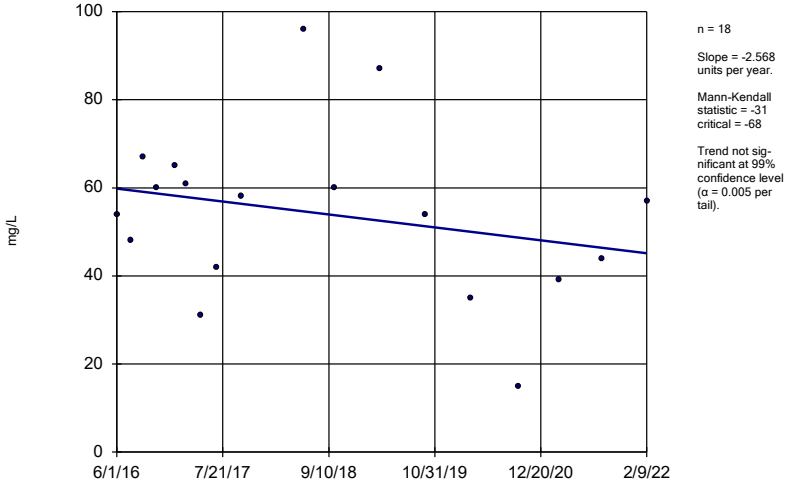
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -2.568 units per year.

Mann-Kendall statistic = -31
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

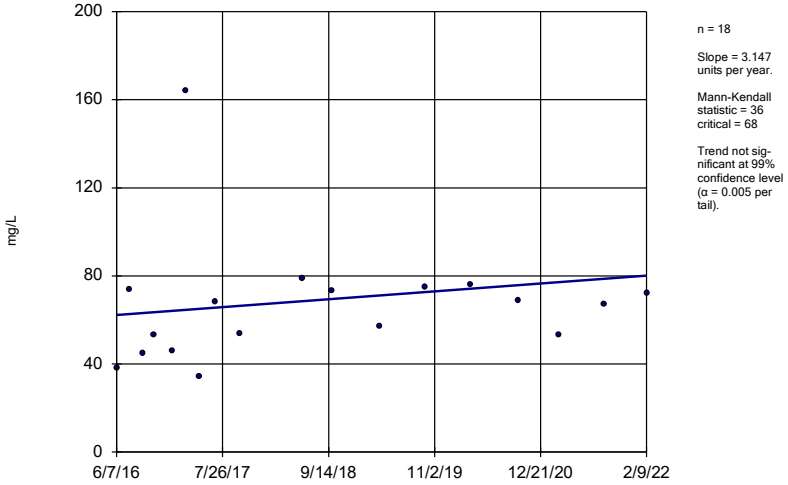
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 3.147 units per year.

Mann-Kendall statistic = 36
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

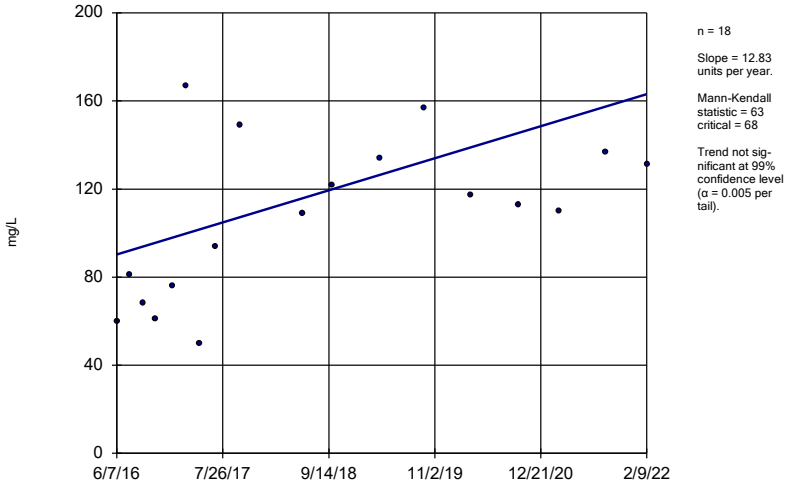
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 12.83 units per year.

Mann-Kendall statistic = 63 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

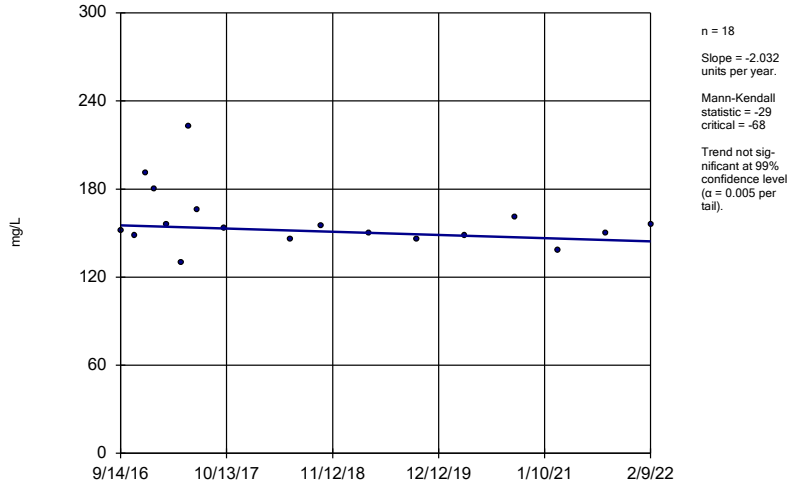
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -2.032 units per year.

Mann-Kendall statistic = -29 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

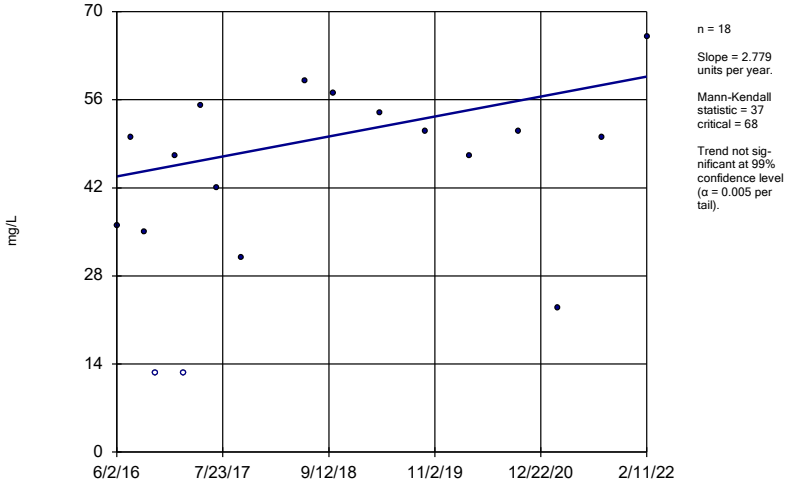
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 2.779 units per year.

Mann-Kendall statistic = 37 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

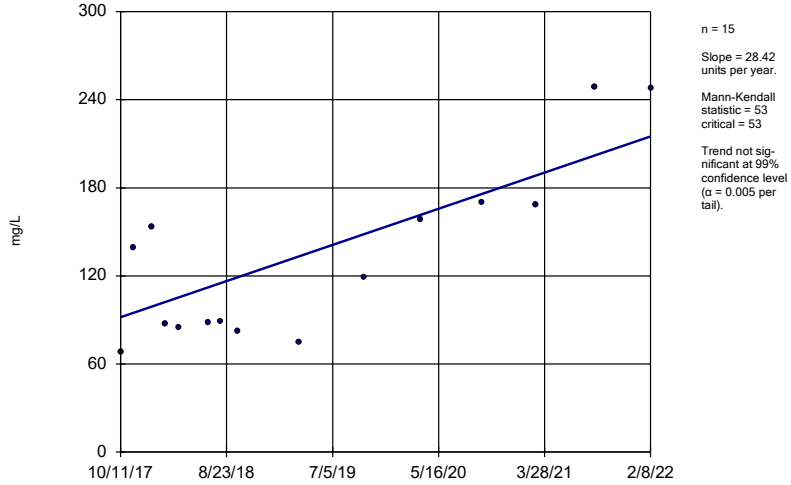
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 28.42 units per year.

Mann-Kendall statistic = 53 critical = 53

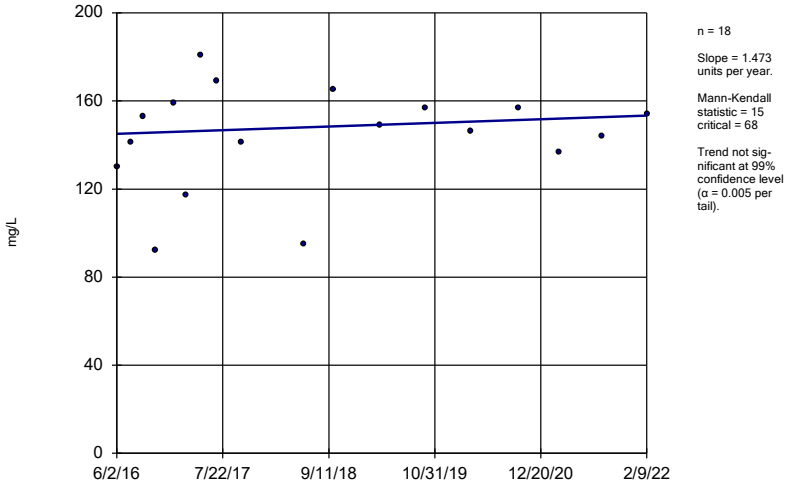
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 1.473 units per year.

Mann-Kendall statistic = 15 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

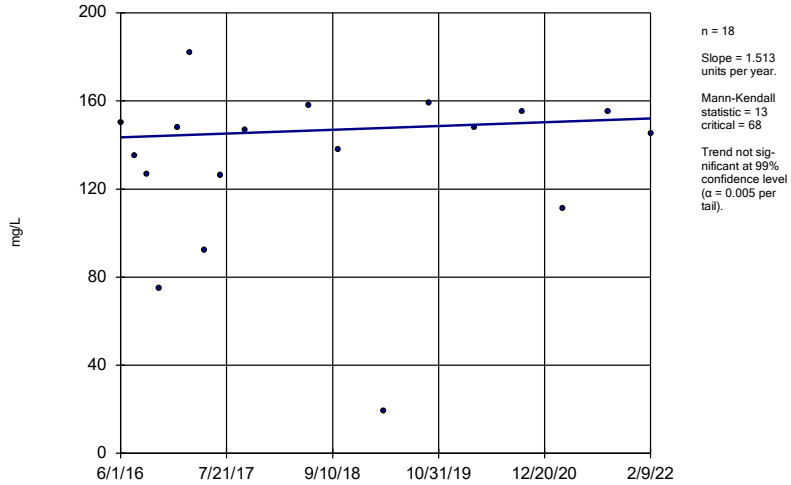
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 1.513 units per year.

Mann-Kendall statistic = 13 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

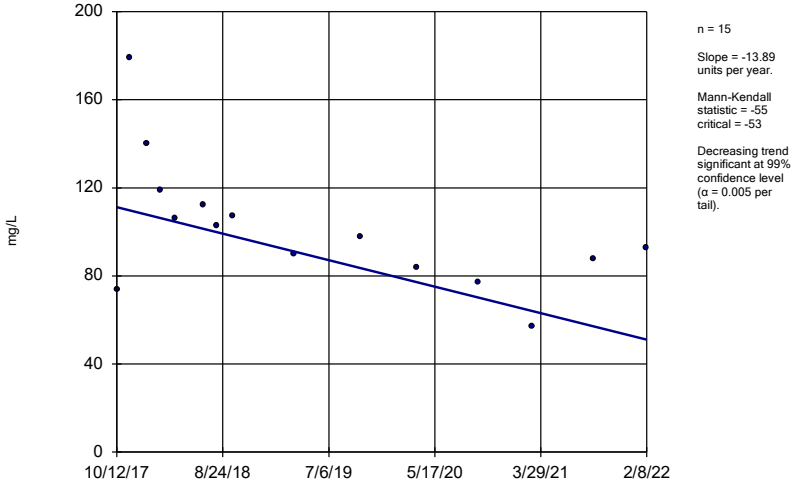
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -13.89 units per year.

Mann-Kendall statistic = -55 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

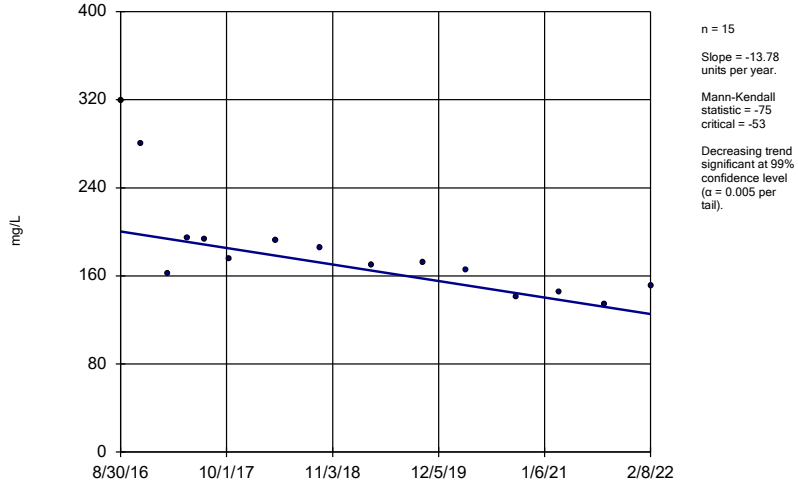
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -13.78 units per year.

Mann-Kendall statistic = -75 critical = -53

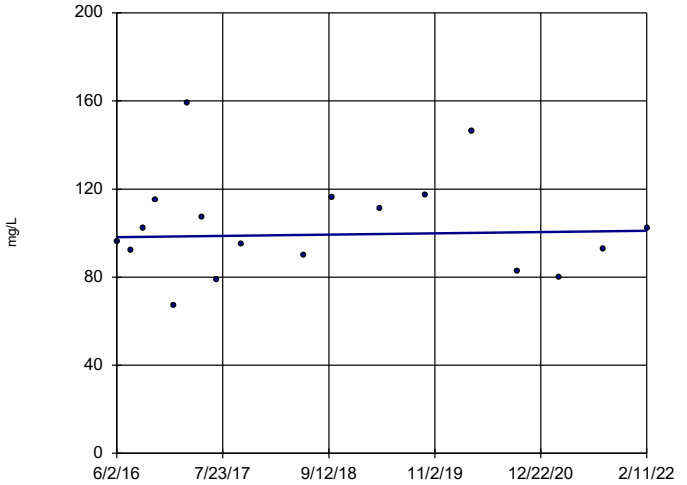
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.5267 units per year.

Mann-Kendall statistic = 6
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

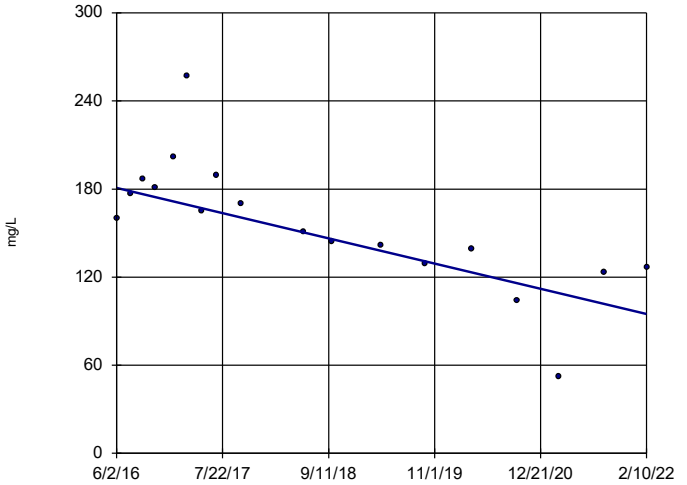
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -15.08 units per year.

Mann-Kendall statistic = -97
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

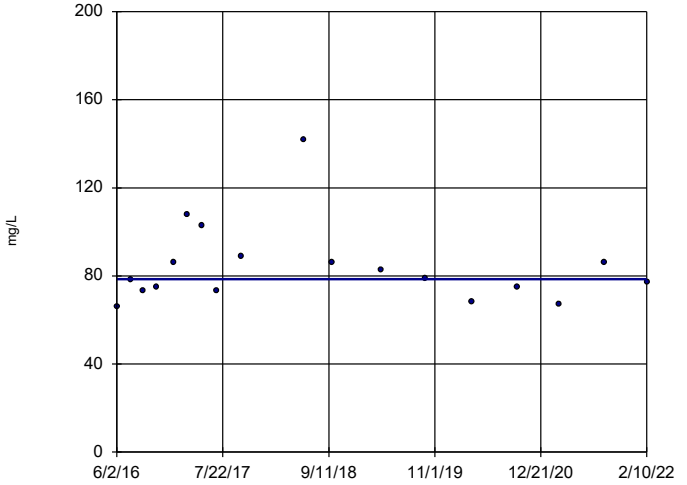
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

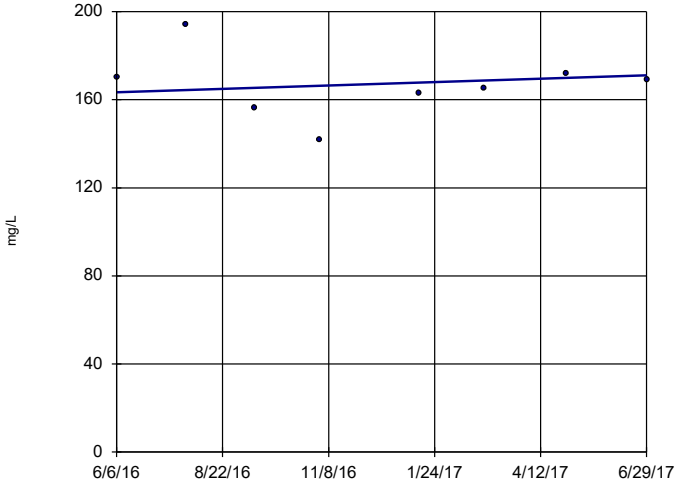
Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-6I (bg)



n = 8

Slope = 7.244 units per year.

Mann-Kendall statistic = 2
critical = 21

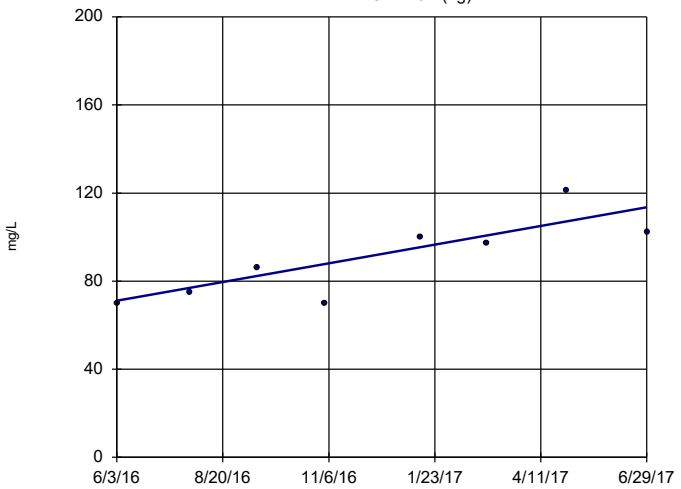
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-6S (bg)



n = 8

Slope = 39.62 units per year.

Mann-Kendall statistic = 19 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/29/2022 12:11 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE G.

Intrawell Prediction Limits Appendix I & II - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/8/2022**	**0.02**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Intrawell Prediction Limits Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 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)	GWA-2	0.003	n/a	2/8/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	2/9/2022	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	2/8/2022	0.0017J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	2/9/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	2/8/2022	0.0033J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	2/8/2022	0.0026J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	2/8/2022	0.0015J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	2/8/2022	0.0013J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.0034J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	2/8/2022	0.037	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	2/8/2022	0.066	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	2/9/2022	0.038	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	2/8/2022	0.013	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	2/8/2022	0.031	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	2/9/2022	0.011	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	2/8/2022	0.03	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	2/8/2022	0.00032J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	2/9/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	2/8/2022	0.001	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	2/8/2022	0.000085J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	2/9/2022	0.0036	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	2/8/2022	0.00019J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	2/9/2022	0.0005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	2/8/2022	0.00018J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	2/8/2022	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	2/9/2022	0.001	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	2/8/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.002J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	2/8/2022	0.0011J	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	2/8/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	2/9/2022	0.0022J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.0017J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	2/8/2022	0.0019J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	2/9/2022	0.00085J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	2/8/2022	0.0074	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	2/8/2022	0.0034J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.00064J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	2/8/2022	0.0012J	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	2/8/2022	0.00072J	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	2/9/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	2/8/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	2/8/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	2/9/2022	0.0014J	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.0008J	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	2/8/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits Appendix I & II - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:28 PM

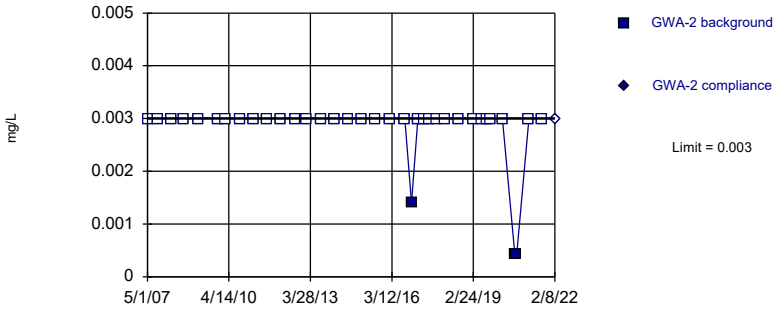
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	2/8/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	2/9/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	2/8/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	2/8/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	2/9/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	2/8/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	2/8/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	2/9/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	2/8/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	2/8/2022	0.0002ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	2/9/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	2/8/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	2/8/2022	0.017	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	2/8/2022	0.0032J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	2/9/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	2/8/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.0017J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	2/9/2022	0.0014J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	2/8/2022	0.001J	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/8/2022**	**0.02**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	2/9/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	2/8/2022	0.0091	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	2/8/2022	0.0044J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	2/9/2022	0.017	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	2/8/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	2/8/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	2/9/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	2/9/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	2/8/2022	0.01ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	2/9/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	2/9/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	2/8/2022	0.014	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	2/8/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	2/9/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	2/8/2022	0.0098J	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	2/8/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	2/9/2022	0.025	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	2/8/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

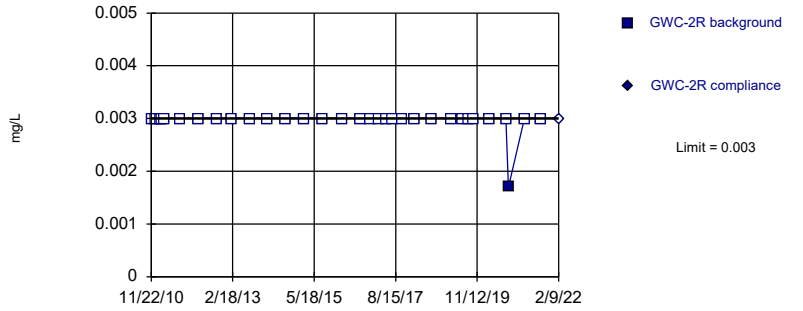
Constituent: Antimony Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

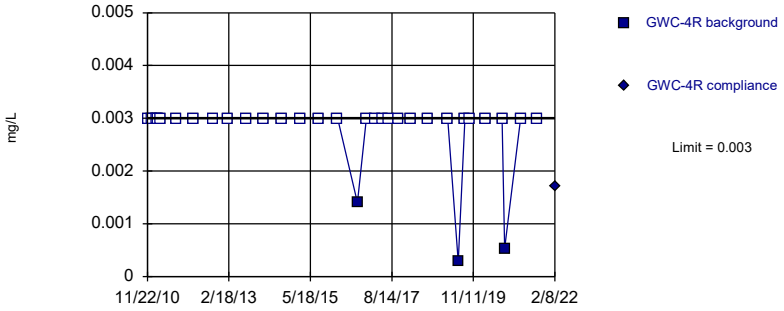
Constituent: Antimony Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

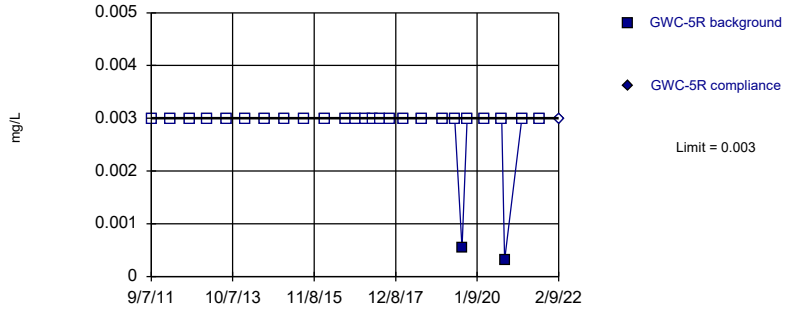
Constituent: Antimony Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

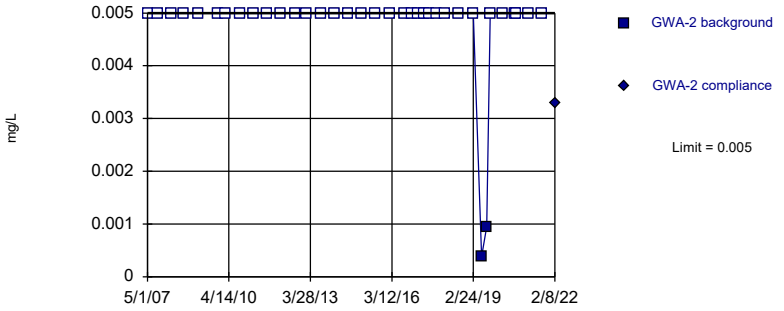
Constituent: Antimony Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

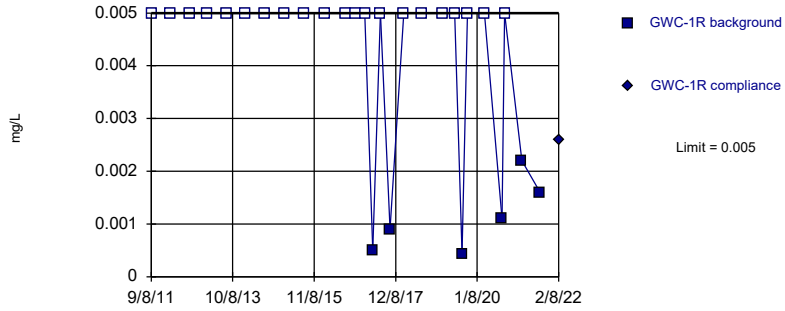
Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

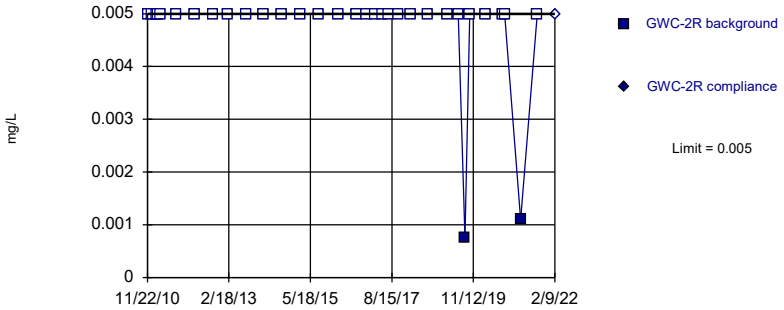
Constituent: Arsenic Analysis Run 4/27/2022 1:24 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

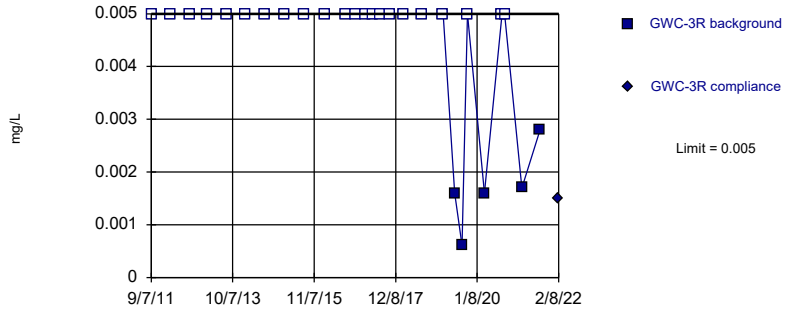
Constituent: Arsenic Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

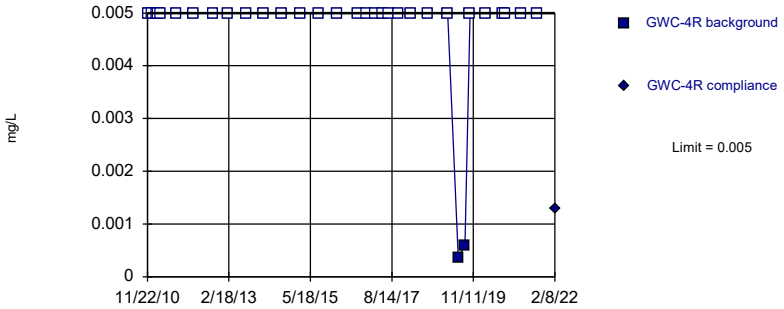
Constituent: Arsenic Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

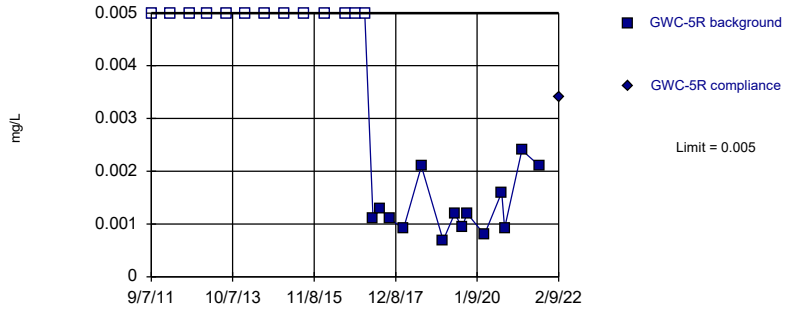
Constituent: Arsenic Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

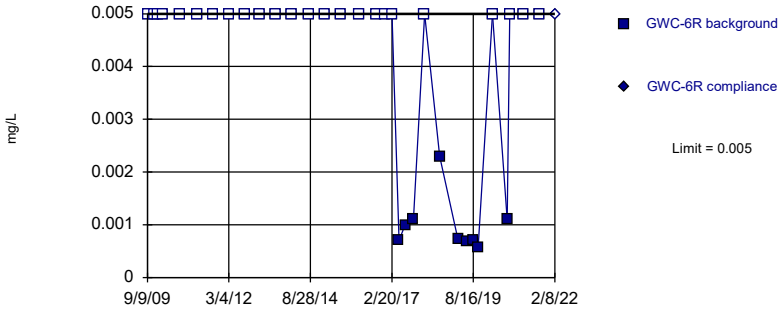
Constituent: Arsenic Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

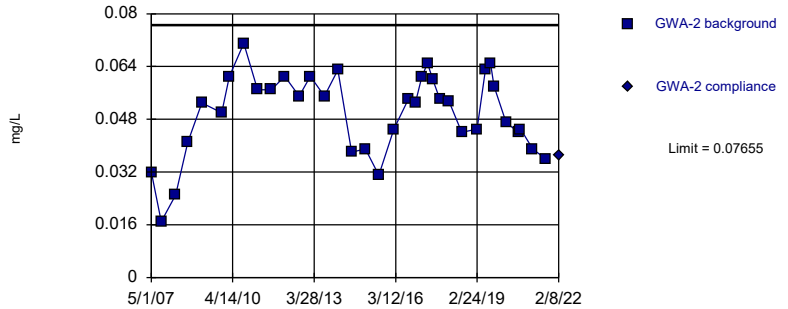
Constituent: Arsenic Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



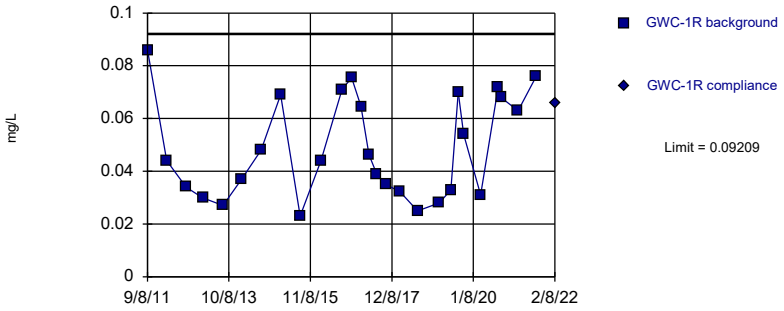
Background Data Summary: Mean=0.04995, Std. Dev.=0.01231, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.912. Kappa = 2.161 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04909, Std. Dev.=0.01922, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9082, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

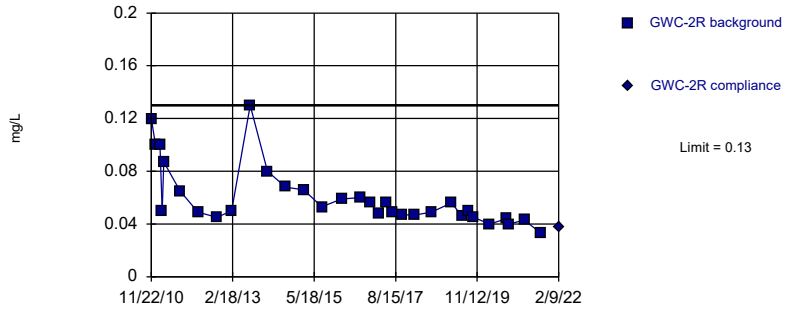
Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

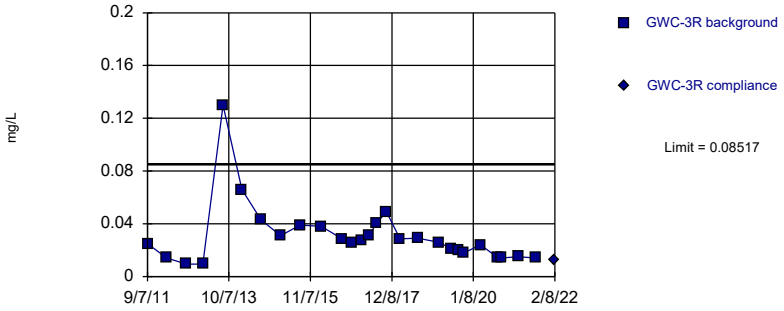
Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3004, Std. Dev.=0.06239, n=27.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

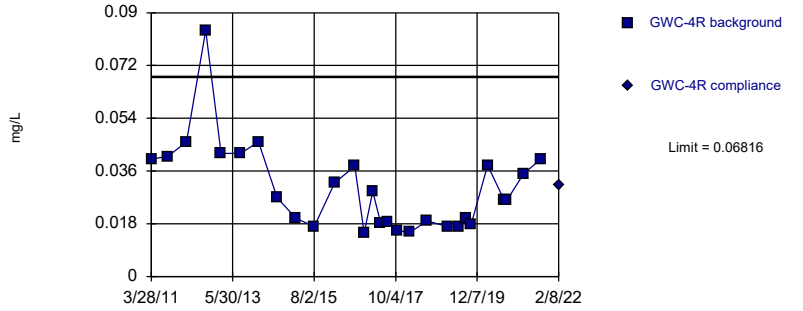
Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



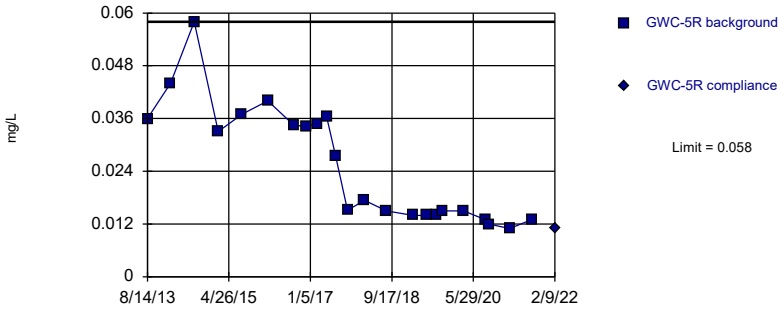
Background Data Summary (based on cube root transformation): Mean=0.3039, Std. Dev.=0.04699, n=28.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.896. Kappa = 2.226 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

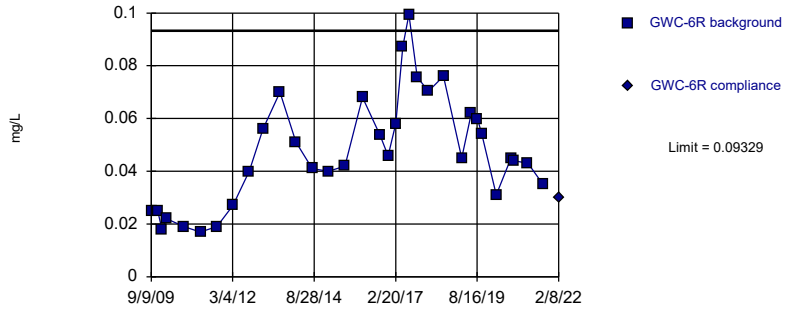
Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04743, Std. Dev.=0.02102, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.906. Kappa = 2.181 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II

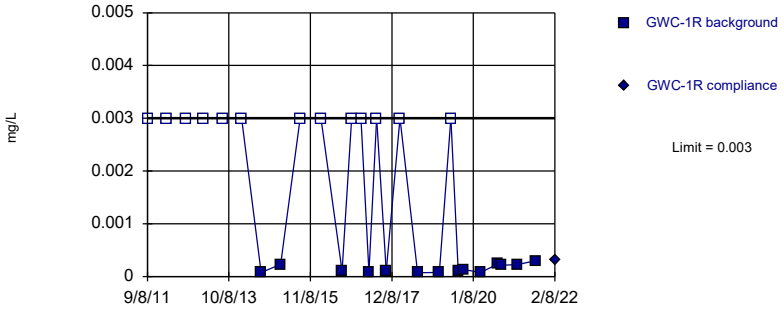
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II

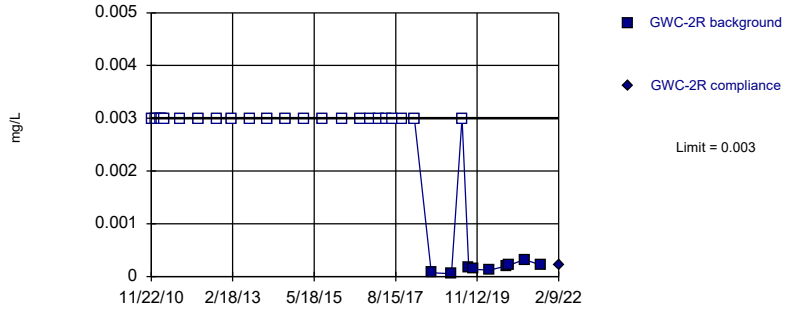
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

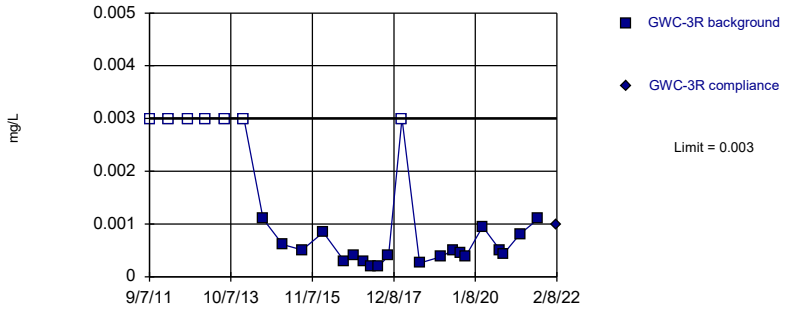
Constituent: Beryllium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



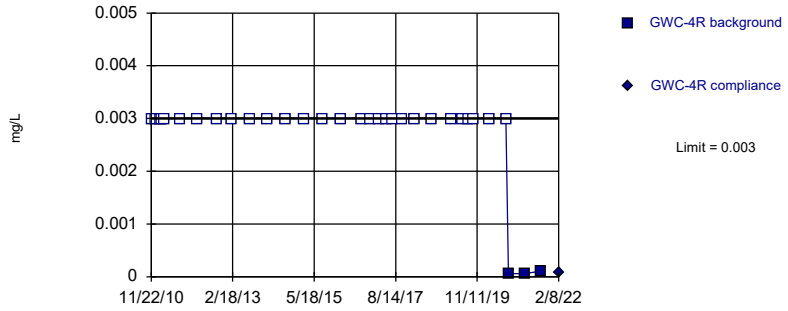
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



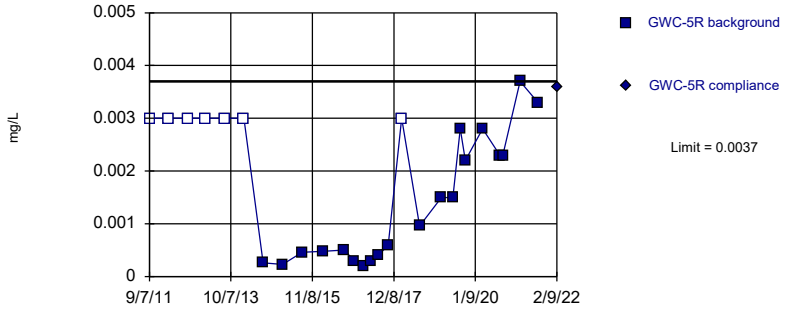
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



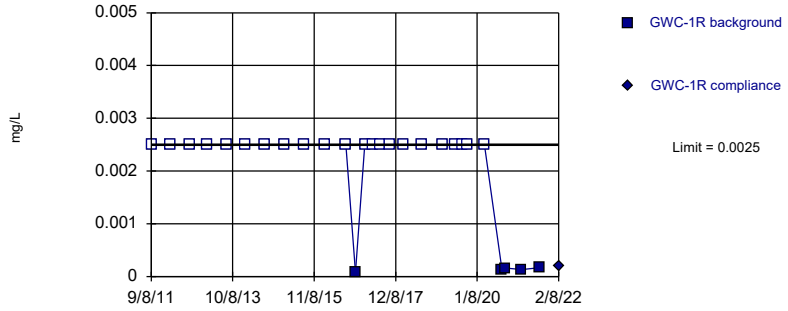
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

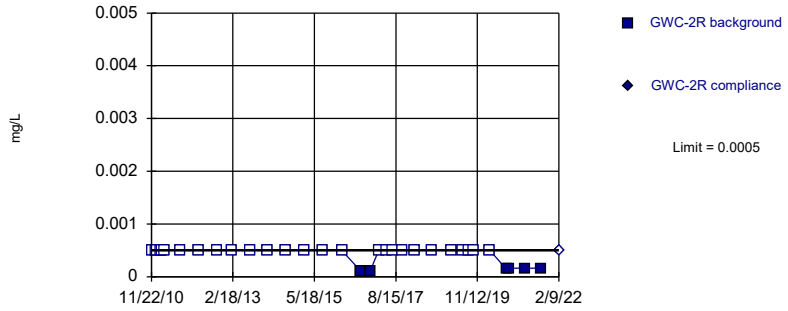
Constituent: Cadmium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

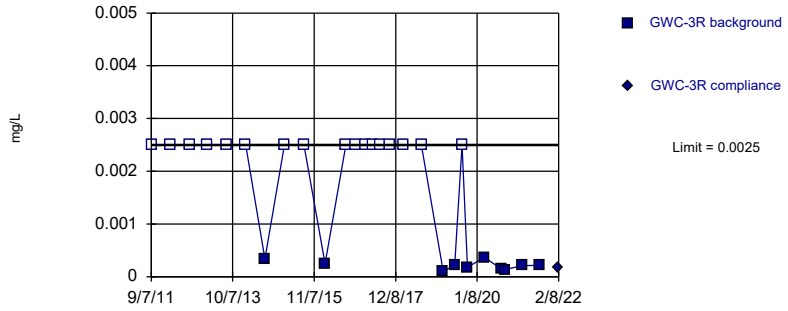
Constituent: Cadmium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

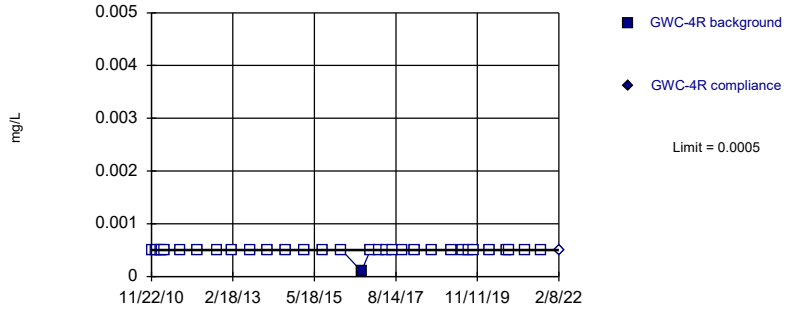
Constituent: Cadmium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

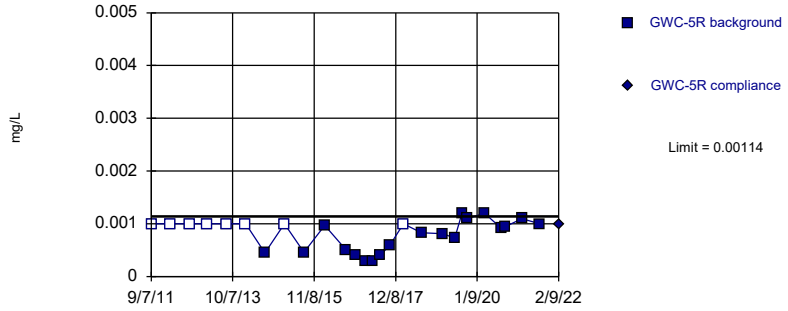
Constituent: Cadmium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=4.6e-10, Std. Dev.=4.5e-10, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

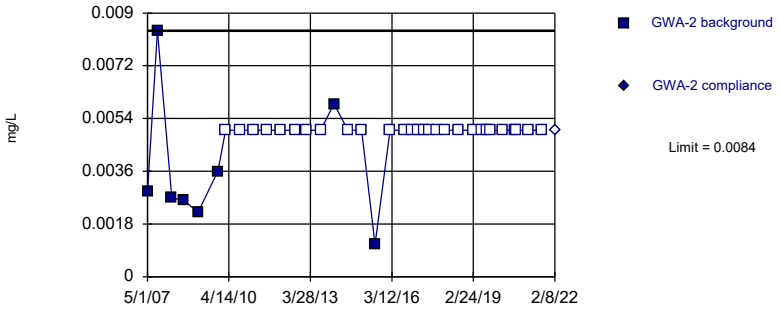
Constituent: Cadmium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

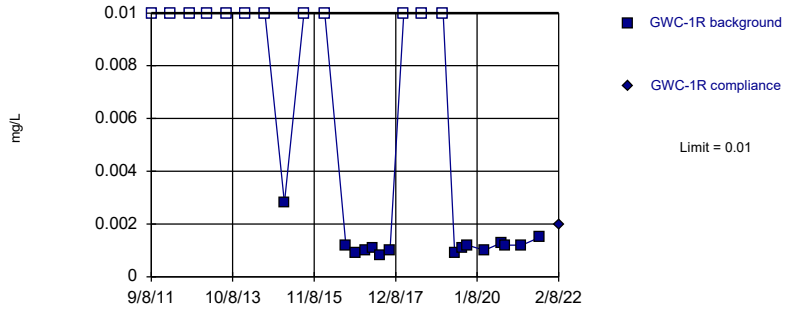
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

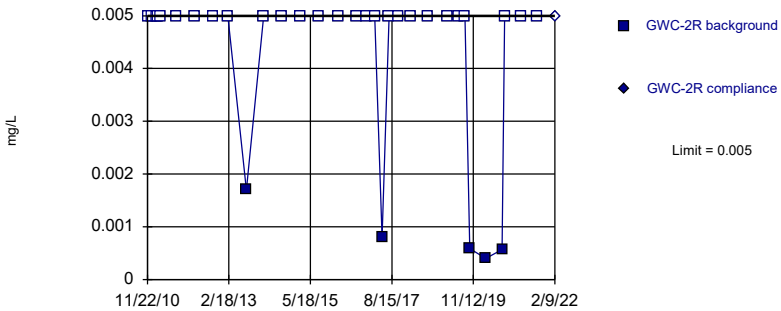
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

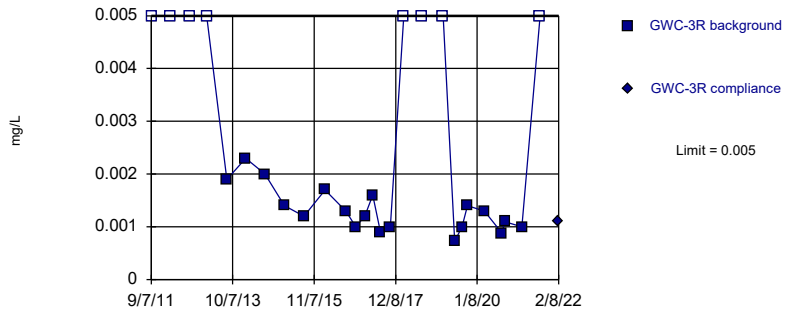
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 29.63% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

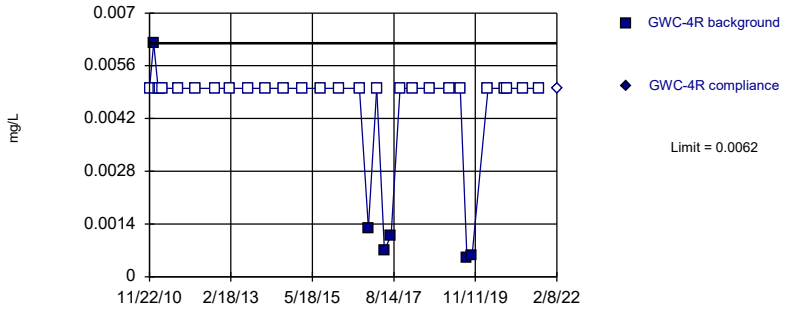
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

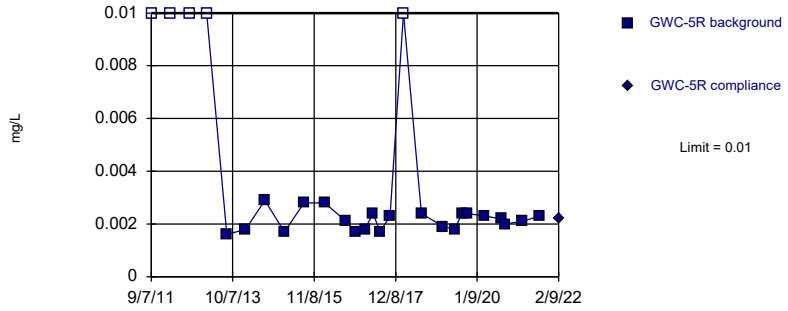
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 18.52% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

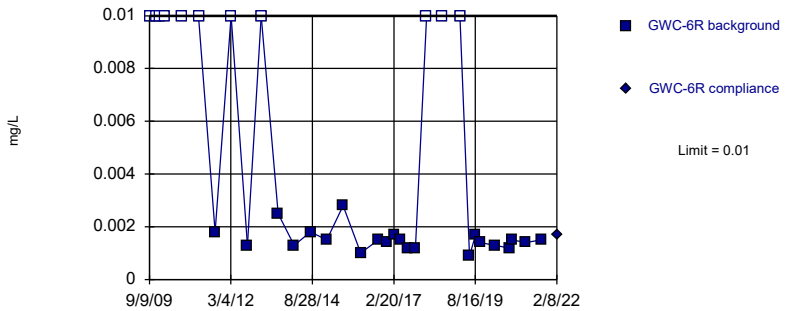
Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



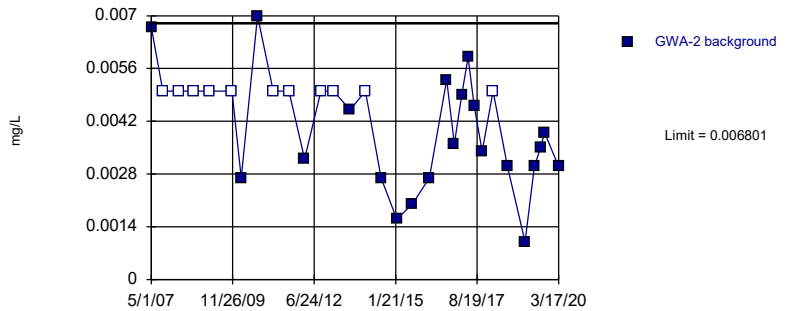
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Chromium Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Parametric, GWA-2 (bg)



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00327, Std. Dev.=0.001613, n=32, 34.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852. Assumes 1 future value.

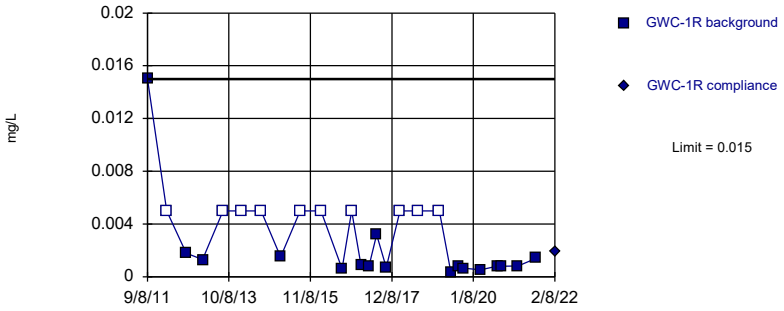
Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



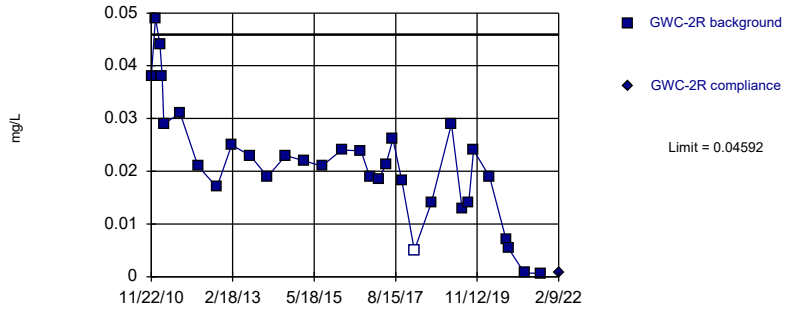
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 37.04% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



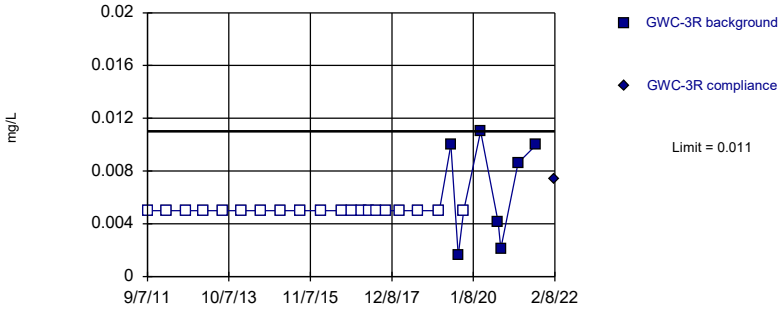
Background Data Summary: Mean=0.02134, Std. Dev.=0.01123, n=32, 3.125% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



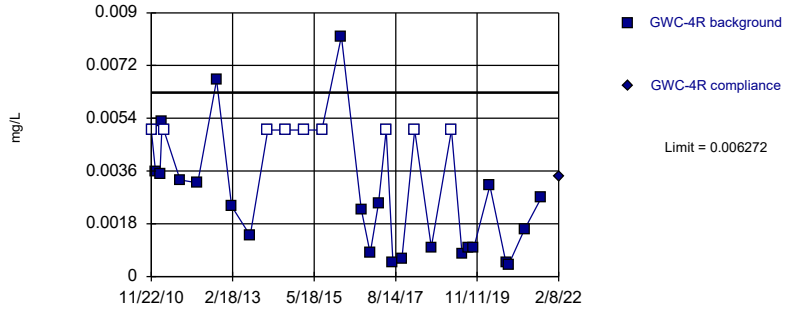
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002253, Std. Dev.=0.001836, n=32, 28.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9125, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

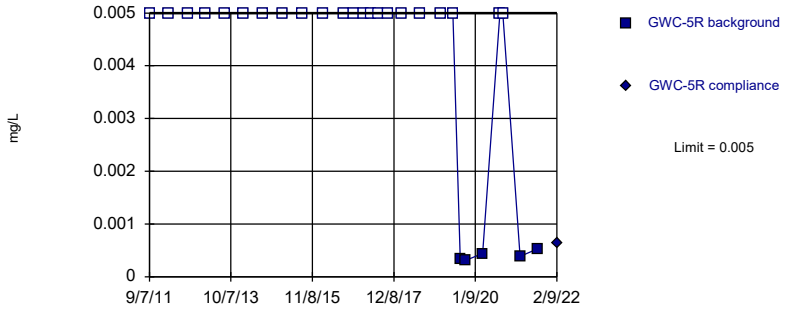
Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

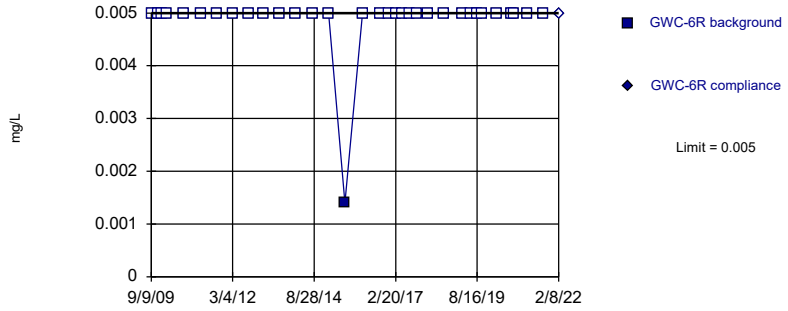
Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 96.97% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

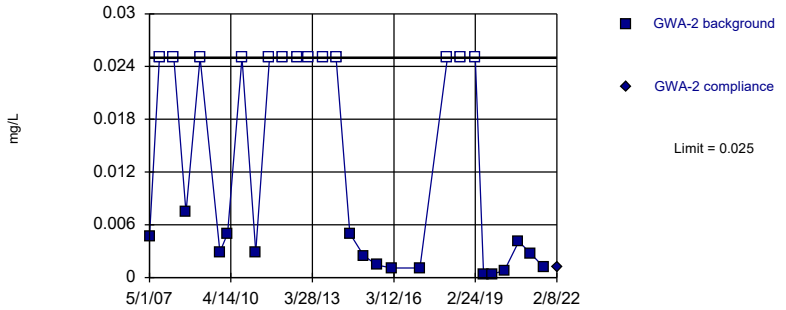
Constituent: Cobalt Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 44.83% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

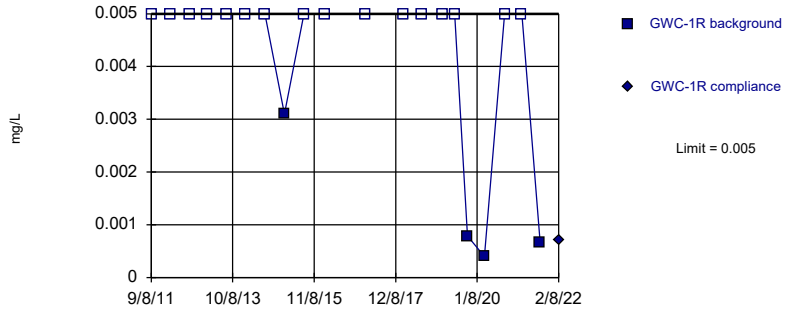
Constituent: Copper Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



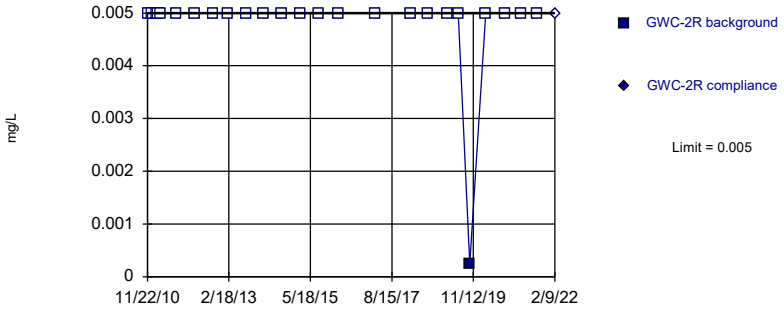
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 4/27/2022 1:25 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



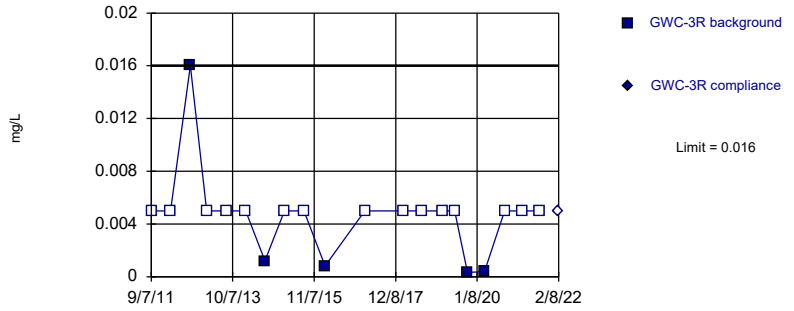
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



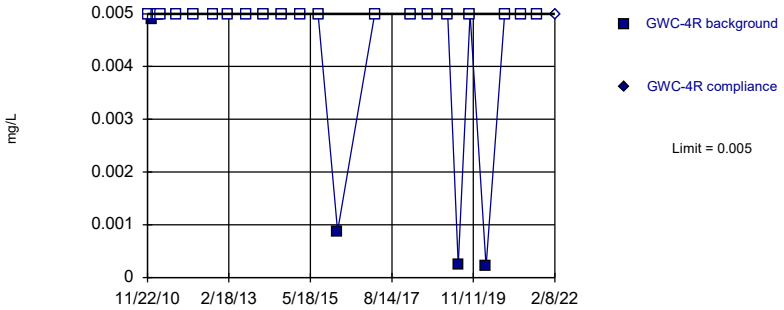
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



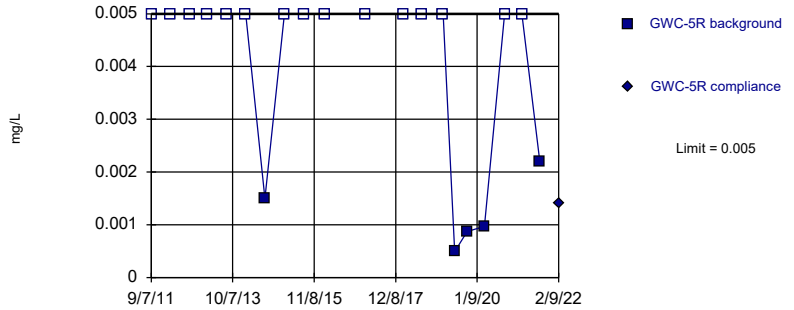
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 84% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

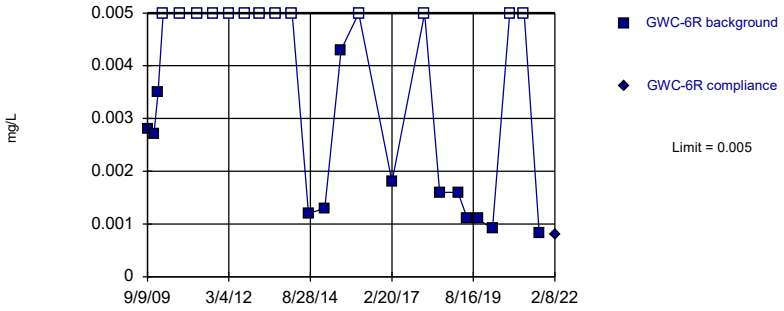
Constituent: Copper Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 50% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

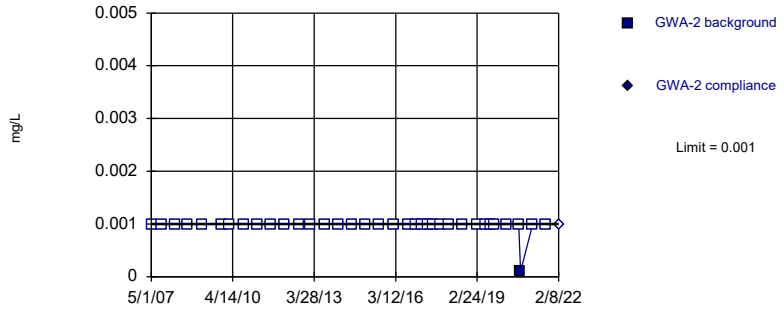
Constituent: Copper Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 97.22% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

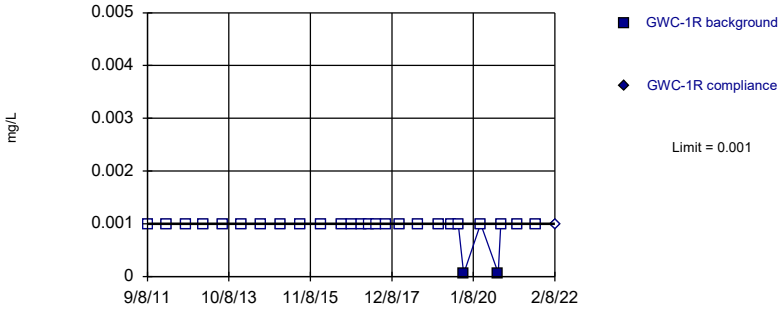
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

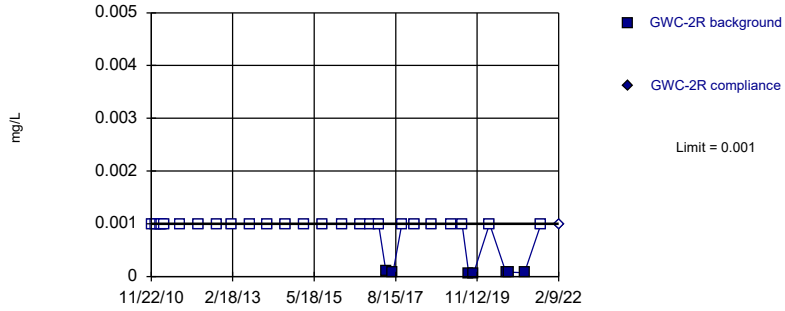
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

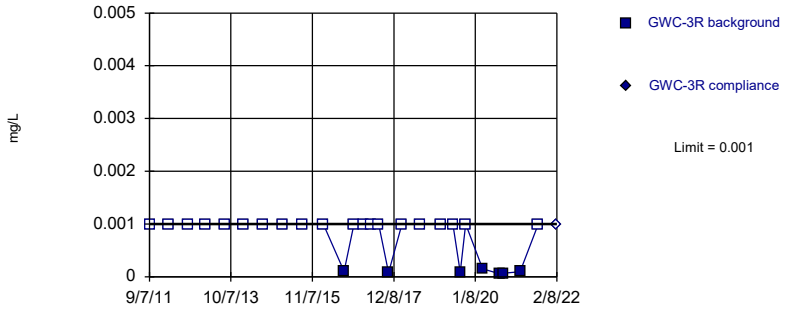
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

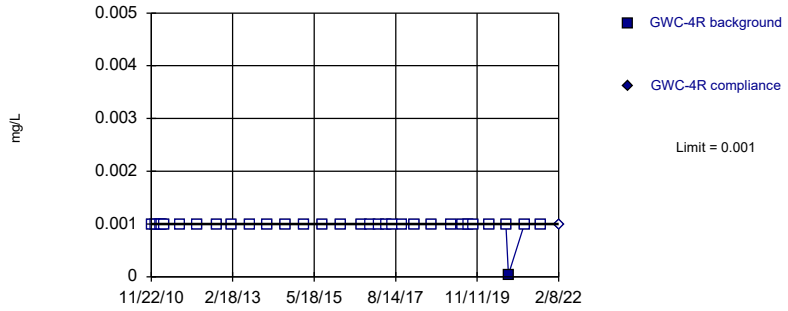
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

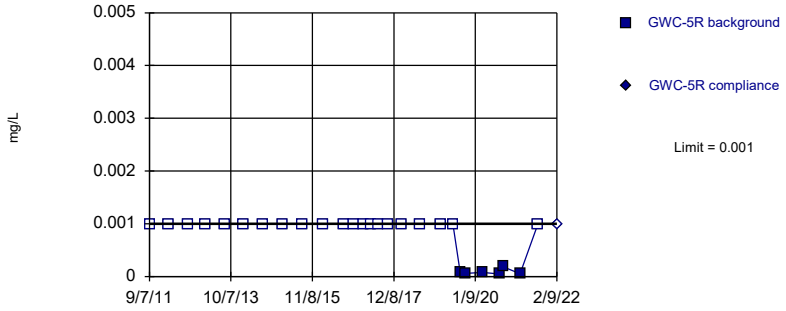
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

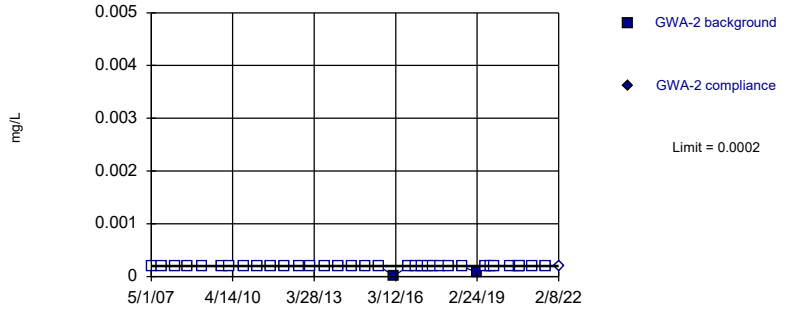
Constituent: Lead Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

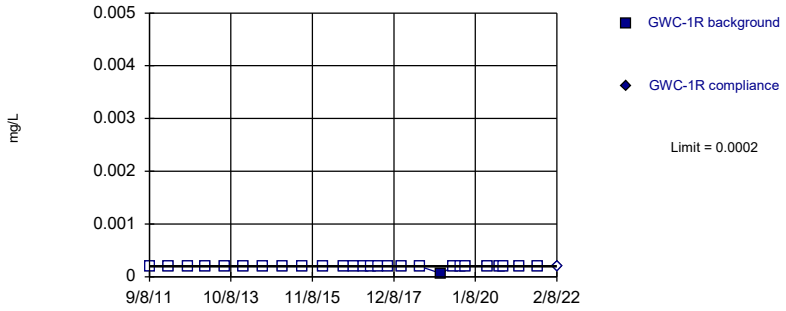
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

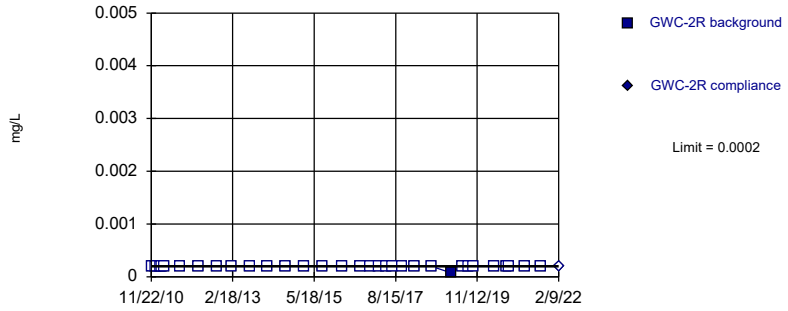
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

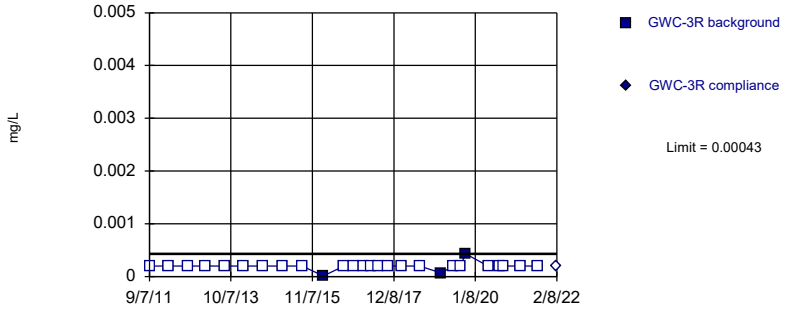
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

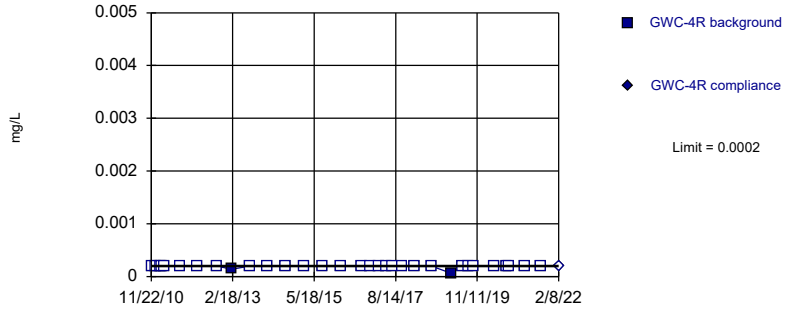
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

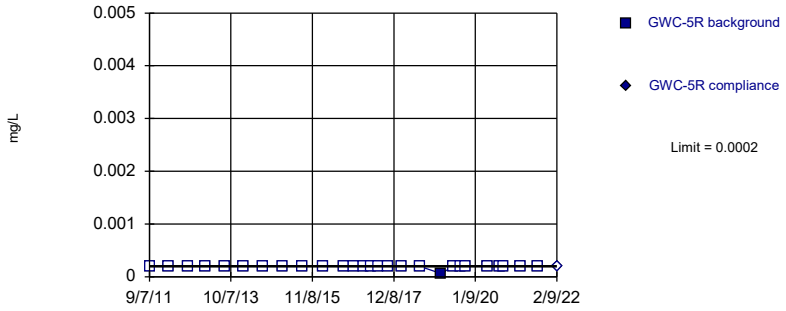
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

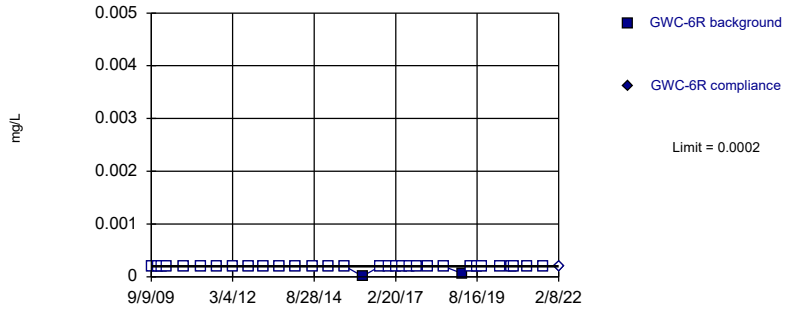
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 93.94% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

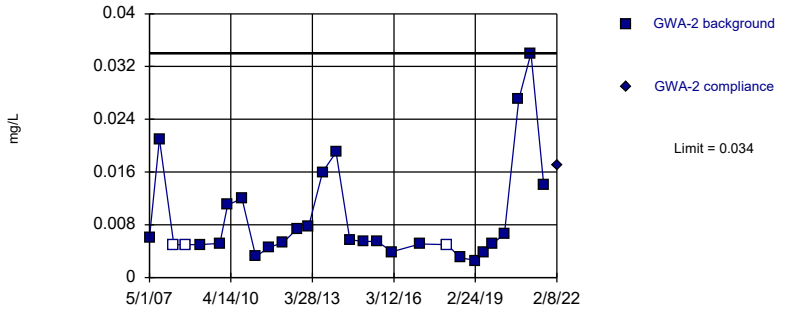
Constituent: Mercury Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 10.34% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

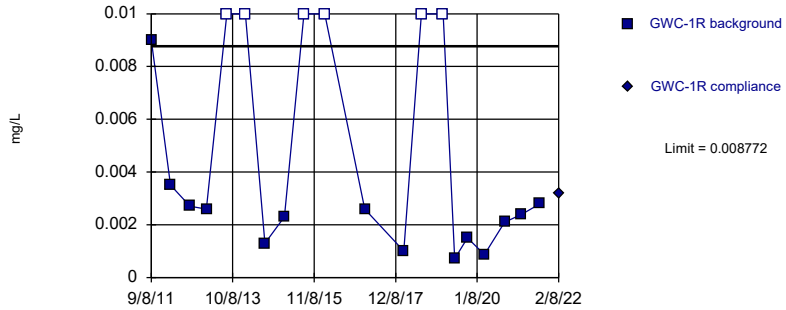
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.236, Std. Dev.=0.6381, n=20, 30% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

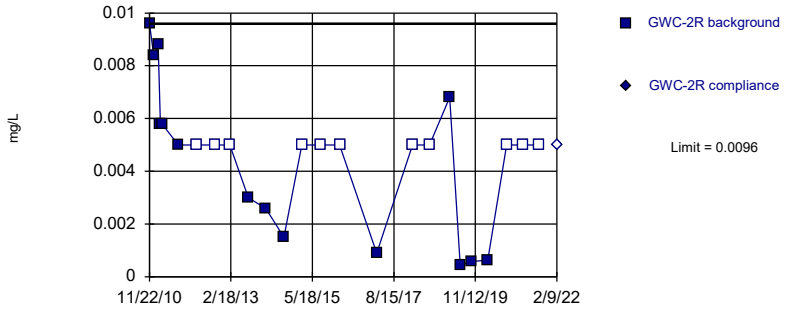
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

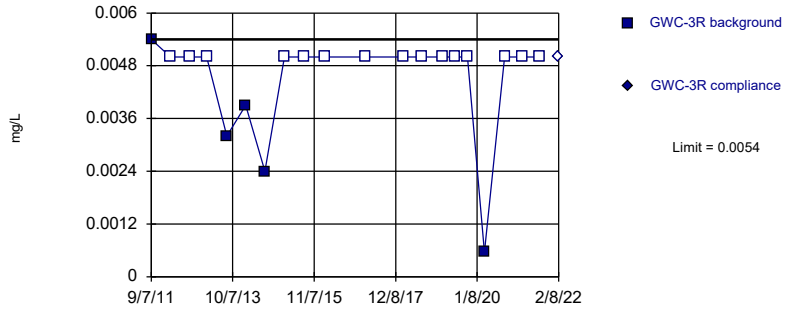
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

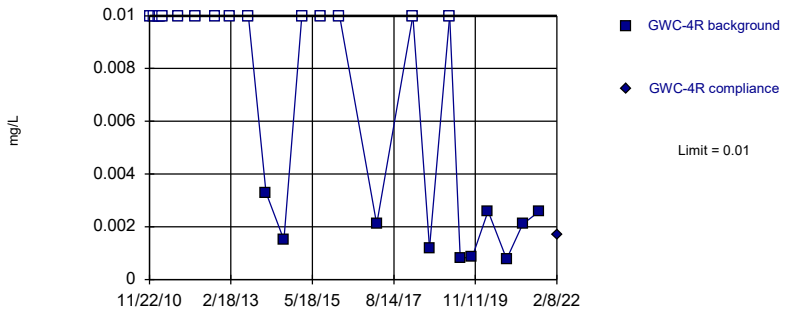
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 60% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

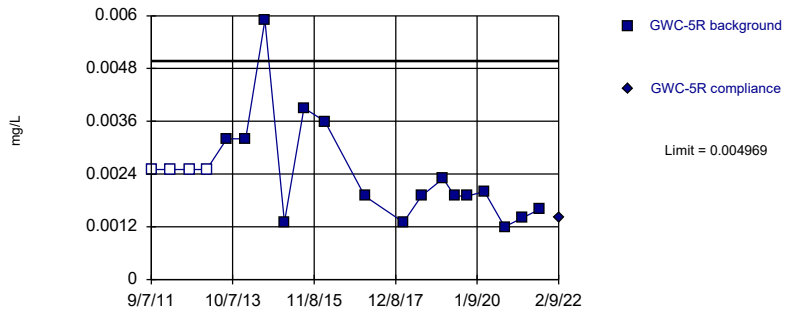
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04397, Std. Dev.=0.01129, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9186, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

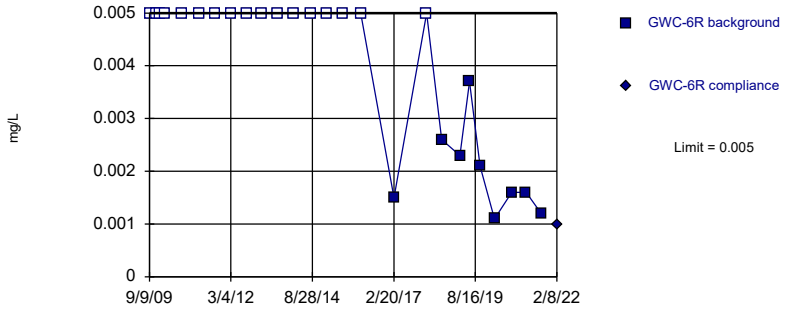
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 65.38% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

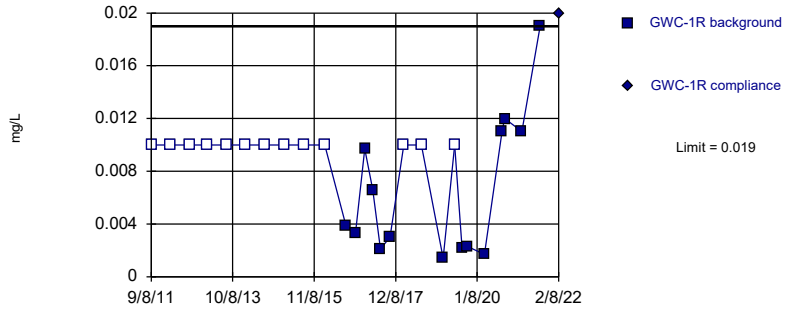
Constituent: Nickel Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

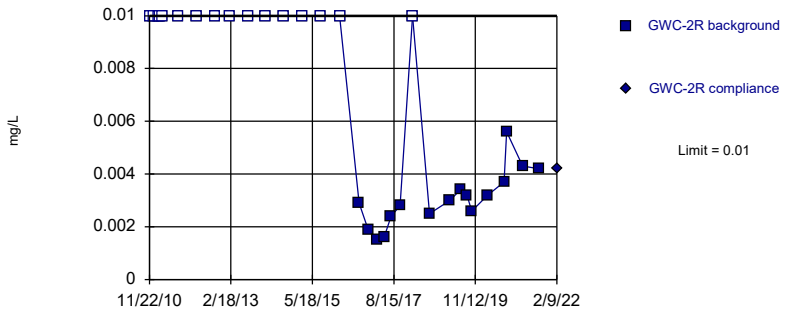
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

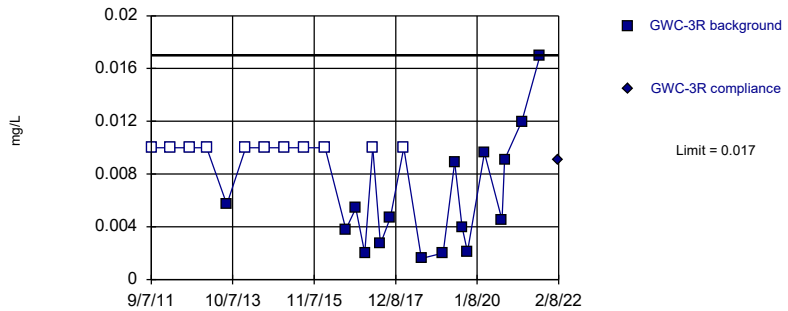
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

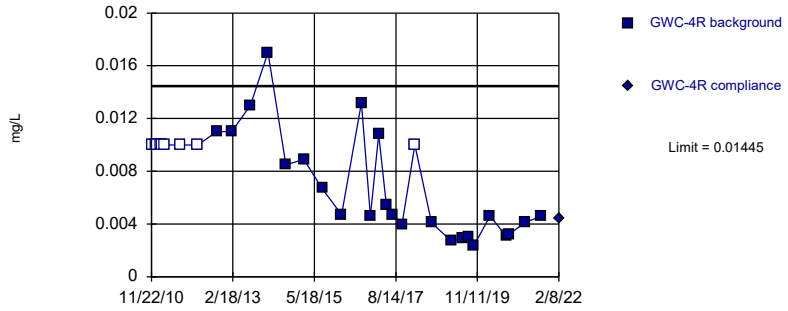
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07177, Std. Dev.=0.02213, n=32, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

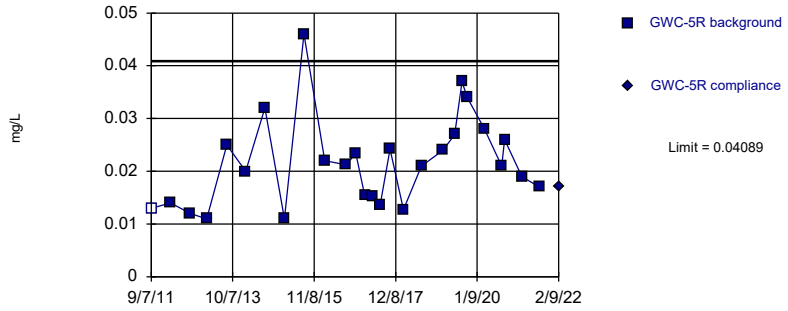
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02169, Std. Dev.=0.008579, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9252, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

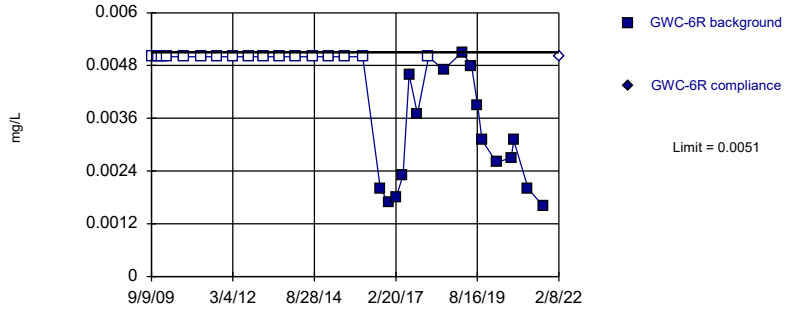
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 51.52% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

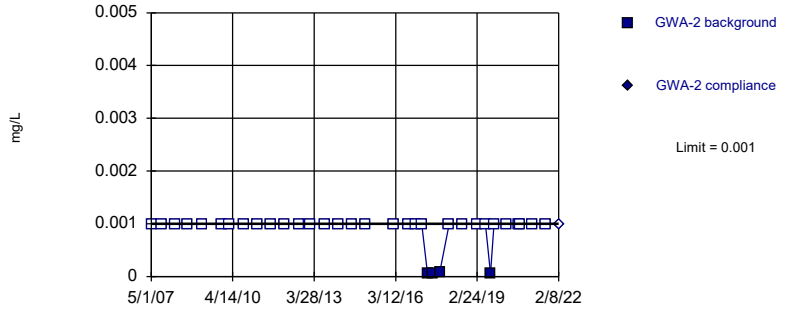
Constituent: Selenium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 35 background values. 88.57% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

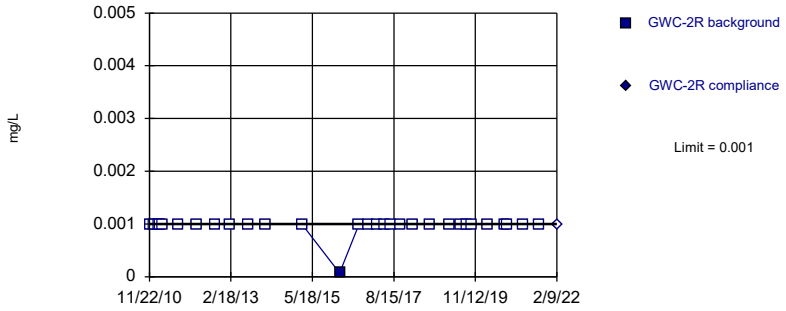
Constituent: Thallium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

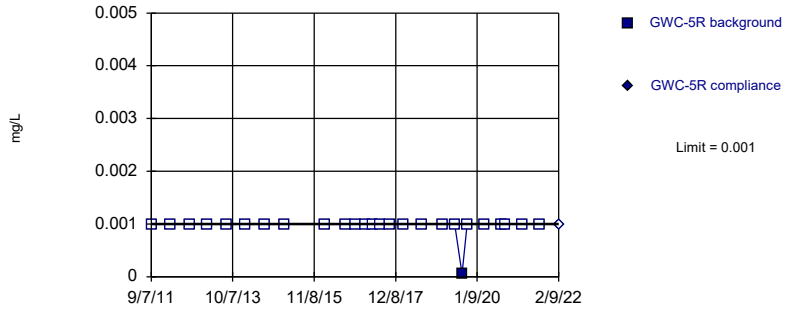
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

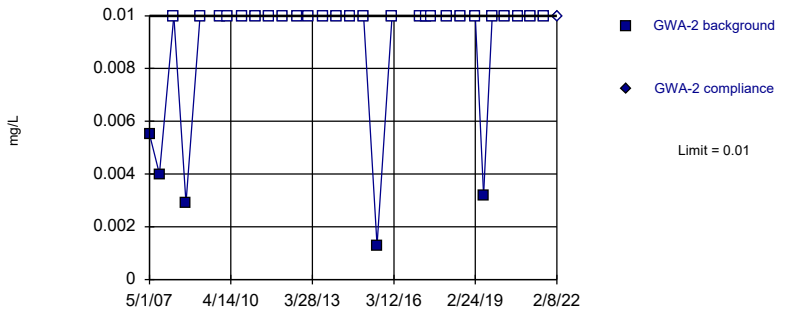
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

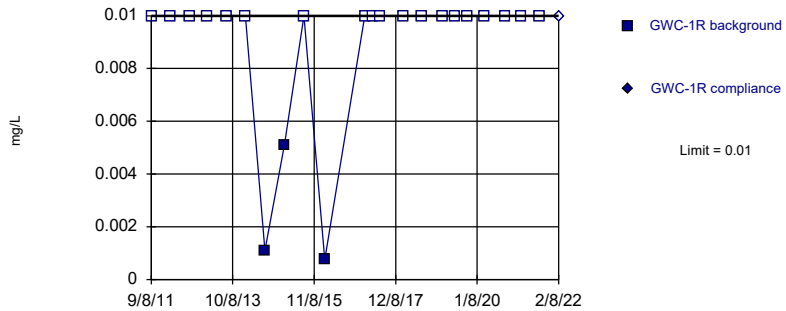
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

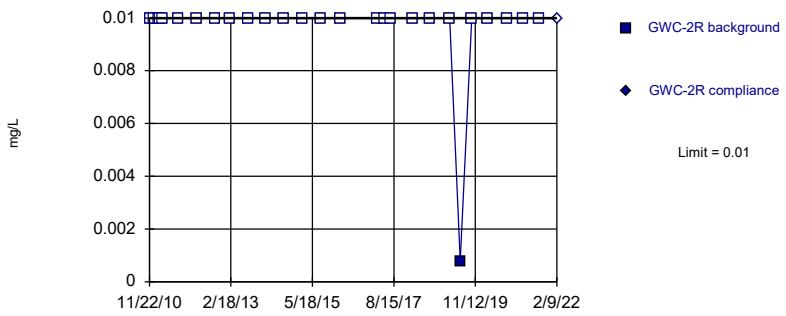
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

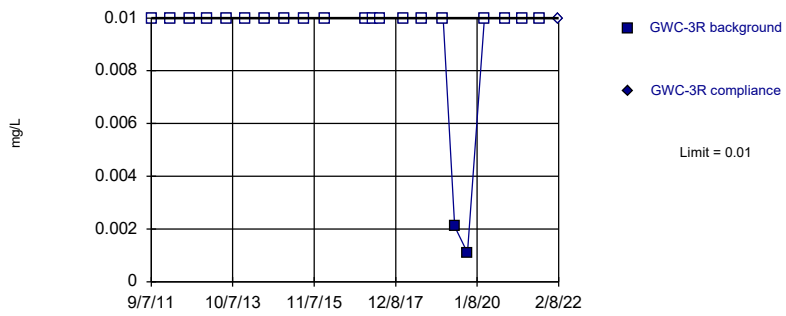
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:26 PM View: PL's Intrawell App I & II

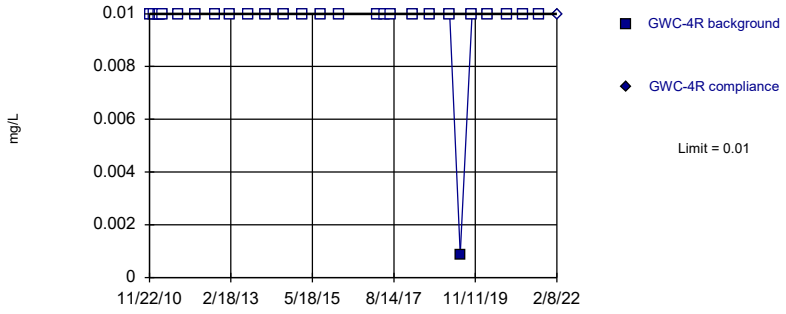
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II

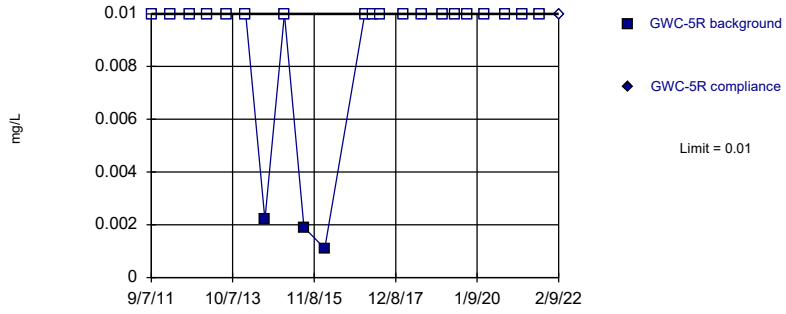
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II

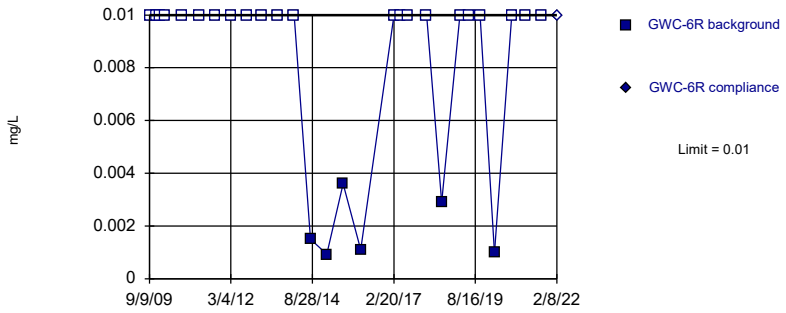
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 28 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

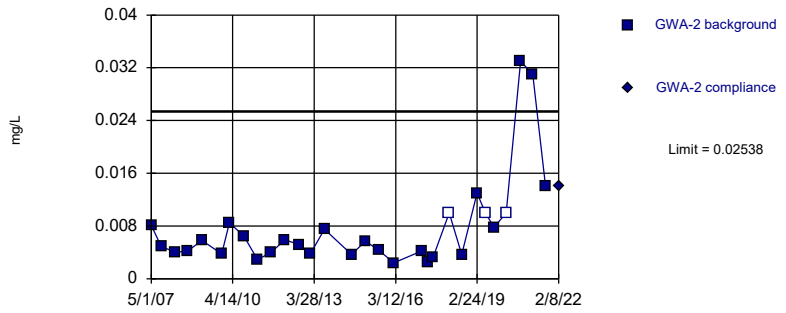
Constituent: Vanadium Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-5.103, Std. Dev.=0.6488, n=30, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9155, critical = 0.9. Kappa = 2.203 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

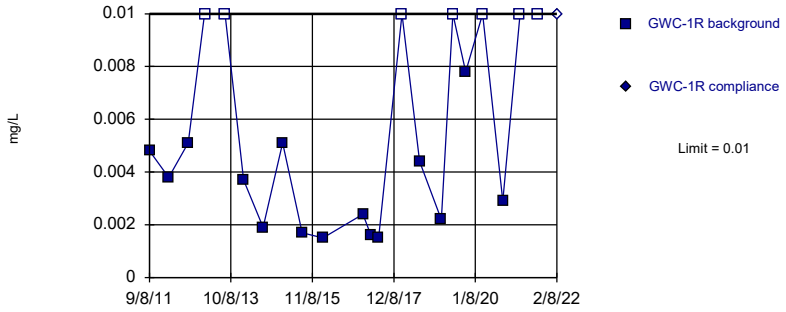
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 31.82% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

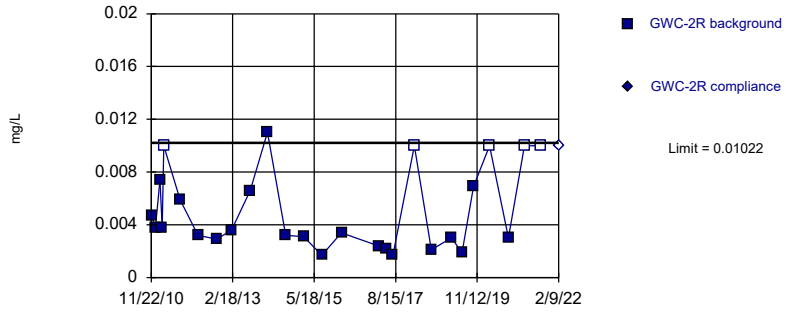
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.718, Std. Dev.=0.507, n=27, 18.52% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

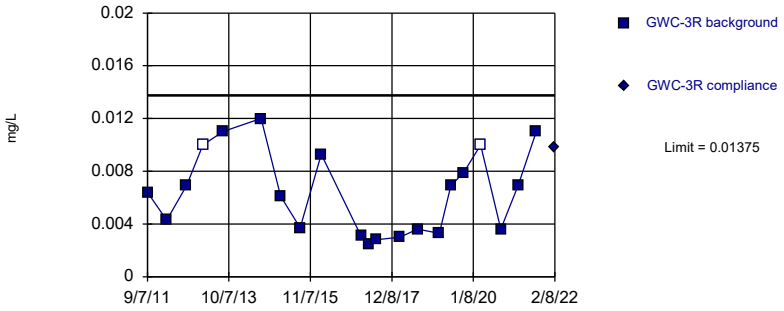
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.006395, Std. Dev.=0.003152, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.873. Kappa = 2.332 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

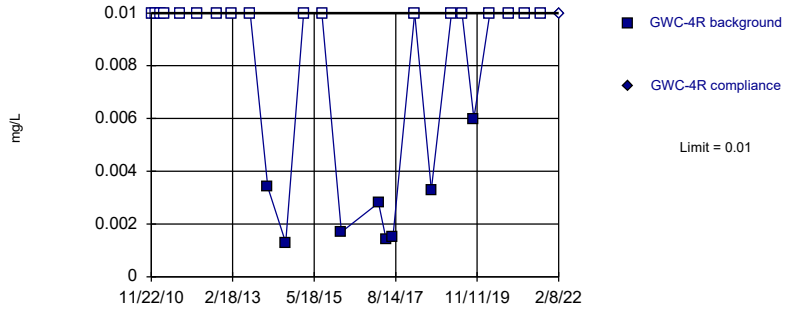
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

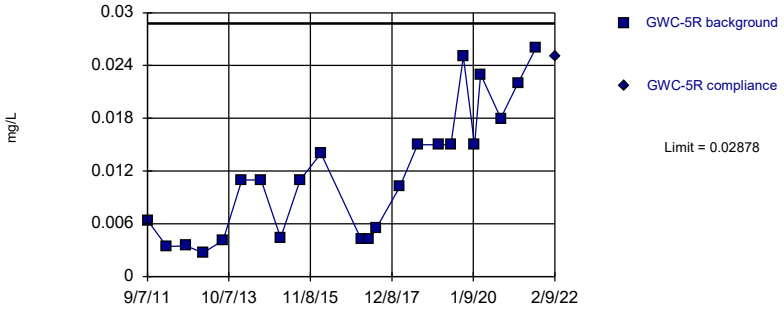
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01173, Std. Dev.=0.007426, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

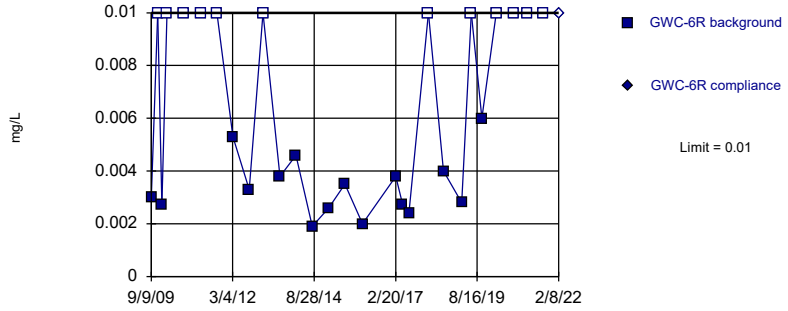
Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Zinc Analysis Run 4/27/2022 1:27 PM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.003	
9/11/2007	<0.003	
3/20/2008	<0.003	
8/27/2008	<0.003	
3/3/2009	<0.003	
11/18/2009	<0.003	
3/3/2010	<0.003	
9/8/2010	<0.003	
3/10/2011	<0.003	
9/8/2011	<0.003	
3/5/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/12/2013	<0.003	
2/5/2014	<0.003	
8/5/2014	<0.003	
2/4/2015	<0.003	
8/3/2015	<0.003	
2/16/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	0.0014 (J)	
2/22/2017	<0.003	
5/8/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/19/2018	<0.003	
8/6/2018	<0.003	
2/25/2019	<0.003	
6/12/2019	<0.003	
8/19/2019	<0.003	
10/8/2019	<0.003	
3/17/2020	<0.003	
8/26/2020	0.00042 (J)	
9/22/2020	0.00044 (J)	
3/2/2021	<0.003	
8/20/2021	<0.003	
2/8/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	<0.003	
8/20/2019	<0.003	
10/9/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	0.0017 (J)	
3/1/2021	<0.003	
8/18/2021	<0.003	
2/9/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	0.0014 (J)	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	0.00028 (J)	
8/19/2019	<0.003	
10/10/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	0.00053 (J)	
3/1/2021	<0.003	
8/18/2021	<0.003	
2/8/2022		0.0017 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	<0.003	
2/3/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
12/1/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/21/2018	<0.003	
8/7/2018	<0.003	
2/26/2019	<0.003	
6/13/2019	<0.003	
8/21/2019	0.00054 (J)	
10/9/2019	<0.003	
3/18/2020	<0.003	
8/27/2020	<0.003	
9/23/2020	0.00031 (J)	
3/2/2021	<0.003	
8/18/2021	<0.003	
2/9/2022		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.005	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	<0.005	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	<0.005	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/12/2019	0.00038 (J)	
8/19/2019	0.00095 (J)	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/26/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/20/2021	<0.005	
2/8/2022		0.0033 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	0.0005 (J)	
7/18/2017	<0.005	
10/17/2017	0.0009 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
8/20/2019	0.00044 (J)	
10/9/2019	<0.005	
3/17/2020	<0.005	
8/27/2020	0.0011 (J)	
9/22/2020	<0.005	
3/1/2021	0.0022 (J)	
8/18/2021	0.0016 (J)	
2/8/2022		0.0026 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/20/2019	0.00075 (J)	
10/9/2019	<0.005	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	0.0011 (J)	
8/18/2021	<0.005	
2/9/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.0016 (J)	
8/21/2019	0.00061 (J)	
10/10/2019	<0.005	
3/17/2020	0.0016 (J)	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	0.0017 (J)	
8/18/2021	0.0028 (J)	
2/8/2022		0.0015 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	0.00037 (J)	
8/19/2019	0.00059 (J)	
10/10/2019	<0.005	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		0.0013 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	0.0011 (J)	
7/17/2017	0.0013 (J)	
10/16/2017	0.0011 (J)	
2/21/2018	0.00091 (J)	
8/7/2018	0.0021 (J)	
2/26/2019	0.00069 (J)	
6/13/2019	0.0012 (J)	
8/21/2019	0.00094 (J)	
10/9/2019	0.0012 (J)	
3/18/2020	0.0008 (J)	
8/27/2020	0.0016 (J)	
9/23/2020	0.00092 (J)	
3/2/2021	0.0024 (J)	
8/18/2021	0.0021 (J)	
2/9/2022		0.0034 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.001 (J)	
10/18/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	0.0023 (J)	
2/25/2019	0.00073 (J)	
6/13/2019	0.00068 (J)	
8/20/2019	0.00072 (J)	
10/8/2019	0.00056 (J)	
3/17/2020	<0.005	
8/27/2020	0.0011 (J)	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.032	
9/11/2007	0.017	
3/20/2008	0.025	
8/27/2008	0.041	
3/3/2009	0.053	
11/18/2009	0.05	
3/3/2010	0.061	
9/8/2010	0.071	
3/10/2011	0.057	
9/8/2011	0.057	
3/5/2012	0.061	
9/10/2012	0.055	
2/6/2013	0.061	
8/12/2013	0.055	
2/5/2014	0.063	
8/5/2014	0.038	
2/4/2015	0.039	
8/3/2015	0.031	
2/16/2016	0.045	
8/31/2016	0.0542	
11/28/2016	0.0529	
2/22/2017	0.0607	
5/8/2017	0.065	
7/17/2017	0.06	
10/16/2017	0.0542	
2/19/2018	0.0533	
8/6/2018	0.044	
2/25/2019	0.045	
6/12/2019	0.063	
8/19/2019	0.065	
10/8/2019	0.058	
3/17/2020	0.047	
8/26/2020	0.044	
9/22/2020	0.045	
3/2/2021	0.039	
8/20/2021	0.036	
2/8/2022		0.037

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.086	
3/5/2012	0.044	
9/5/2012	0.034	
2/5/2013	0.03	
8/13/2013	0.027	
2/4/2014	0.037	
8/5/2014	0.048	
2/2/2015	0.069	
8/4/2015	0.023 (D)	
2/16/2016	0.044	
8/31/2016	0.0711	
11/29/2016	0.0754	
2/23/2017	0.0646	
5/9/2017	0.0463	
7/18/2017	0.039	
10/17/2017	0.0349	
2/21/2018	0.0322	
8/7/2018	0.025	
2/26/2019	0.028	
6/13/2019	0.033	
8/20/2019	0.07	
10/9/2019	0.054	
3/17/2020	0.031	
8/27/2020	0.072	
9/22/2020	0.068	
3/1/2021	0.063	
8/18/2021	0.076	
2/8/2022		0.066

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.12	
1/4/2011	0.1	
2/17/2011	0.1	
3/11/2011	0.05	
3/28/2011	0.087	
9/7/2011	0.065	
3/6/2012	0.049	
9/11/2012	0.045	
2/6/2013	0.05	
8/13/2013	0.13	
2/4/2014	0.08	
8/5/2014	0.068	
2/2/2015	0.066	
8/4/2015	0.053	
2/17/2016	0.059	
8/31/2016	0.0601	
11/28/2016	0.0562	
2/22/2017	0.0481	
5/10/2017	0.0563	
7/18/2017	0.049	
10/17/2017	0.047	
2/20/2018	0.0467	
8/8/2018	0.049	
2/26/2019	0.056	
6/12/2019	0.046	
8/20/2019	0.05	
10/9/2019	0.045	
3/18/2020	0.04	
8/28/2020	0.044	
9/22/2020	0.04	
3/1/2021	0.043	
8/18/2021	0.033	
2/9/2022		0.038

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.025	
3/5/2012	0.014	
9/5/2012	0.0095	
2/6/2013	0.0094	
8/13/2013	0.13	
2/5/2014	0.066	
8/4/2014	0.043	
2/3/2015	0.031	
8/3/2015	0.039 (D)	
2/16/2016	0.038	
8/31/2016	0.0286	
11/30/2016	0.0258	
2/23/2017	0.0278	
5/9/2017	0.0308	
7/18/2017	0.0407	
10/18/2017	0.049	
2/21/2018	0.0285	
8/7/2018	0.029	
2/26/2019	0.026	
6/13/2019	0.021	
8/21/2019	0.02	
10/10/2019	0.018	
3/17/2020	0.024	
8/28/2020	0.014	
9/22/2020	0.014	
3/2/2021	0.015	
8/18/2021	0.014	
2/8/2022		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	0.03	
1/4/2011	0.065	
2/17/2011	0.061	
3/11/2011	0.066	
3/28/2011	0.04	
9/7/2011	0.041	
3/4/2012	0.046	
9/10/2012	0.084	
2/6/2013	0.042	
8/14/2013	0.042	
2/4/2014	0.046	
8/4/2014	0.027	
2/2/2015	0.02	
8/3/2015	0.017 (D)	
2/16/2016	0.032	
9/1/2016	0.0377	
11/30/2016	0.0148	
2/24/2017	0.029	
5/10/2017	0.0182	
7/18/2017	0.0187	
10/17/2017	0.0157	
2/20/2018	0.0151	
8/8/2018	0.019	
2/26/2019	0.017	
6/12/2019	0.017	
8/19/2019	0.02	
10/10/2019	0.018	
3/18/2020	0.038	
8/28/2020	0.026	
9/22/2020	0.026	
3/1/2021	0.035	
8/18/2021	0.04	
2/8/2022		0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.02	
3/5/2012	0.048	
9/5/2012	0.07	
2/5/2013	0.068	
8/14/2013	0.036	
2/5/2014	0.044	
8/4/2014	0.058	
2/3/2015	0.033	
8/3/2015	0.037 (D)	
2/16/2016	0.04	
9/1/2016	0.0345	
12/1/2016	0.0342	
2/24/2017	0.0347	
5/10/2017	0.0363	
7/17/2017	0.0274	
10/16/2017	0.0151	
2/21/2018	0.0174	
8/7/2018	0.015	
2/26/2019	0.014	
6/13/2019	0.014	
8/21/2019	0.014	
10/9/2019	0.015	
3/18/2020	0.015	
8/27/2020	0.013	
9/23/2020	0.012	
3/2/2021	0.011	
8/18/2021	0.013	
2/9/2022		0.011

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.025	
11/18/2009	0.025	
1/5/2010	0.018	
3/3/2010	0.022	
9/7/2010	0.019	
3/10/2011	0.017	
9/8/2011	0.019	
3/5/2012	0.027	
9/5/2012	0.04	
2/5/2013	0.056	
8/13/2013	0.07	
2/4/2014	0.051	
8/5/2014	0.041	
2/3/2015	0.04	
8/4/2015	0.042	
2/16/2016	0.068	
9/1/2016	0.0536	
11/29/2016	0.0459	
2/23/2017	0.0581	
5/10/2017	0.0873	
7/18/2017	0.0994	
10/18/2017	0.0757	
2/19/2018	0.0703	
8/6/2018	0.076	
2/25/2019	0.045	
6/13/2019	0.062	
8/20/2019	0.06	
10/8/2019	0.054	
3/17/2020	0.031	
8/27/2020	0.045	
9/23/2020	0.044	
3/3/2021	0.043	
8/18/2021	0.035	
2/8/2022		0.03

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	7.5E-05 (J)	
2/2/2015	0.00023 (J)	
8/4/2015	<0.003 (D)	
2/16/2016	<0.003	
8/31/2016	0.0001 (J)	
11/29/2016	<0.003	
2/23/2017	<0.003	
5/9/2017	8E-05 (J)	
7/18/2017	<0.003	
10/17/2017	0.0001 (J)	
2/21/2018	<0.003	
8/7/2018	7.4E-05 (J)	
2/26/2019	7.5E-05 (J)	
6/13/2019	<0.003	
8/20/2019	0.0001 (J)	
10/9/2019	0.00013 (J)	
3/17/2020	7.6E-05 (J)	
8/27/2020	0.00024 (J)	
9/22/2020	0.00021 (J)	
3/1/2021	0.00023 (J)	
8/18/2021	0.0003 (J)	
2/8/2022		0.00032 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	7E-05 (J)	
2/26/2019	5.3E-05 (J)	
6/12/2019	<0.003	
8/20/2019	0.00017 (J)	
10/9/2019	0.00014 (J)	
3/18/2020	0.00012 (J)	
8/28/2020	0.0002 (J)	
9/22/2020	0.00021 (J)	
3/1/2021	0.00032 (J)	
8/18/2021	0.00022 (J)	
2/9/2022		0.00023 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.0011 (J)	
2/3/2015	0.00061 (J)	
8/3/2015	0.00051 (JD)	
2/16/2016	0.00084 (J)	
8/31/2016	0.0003 (J)	
11/30/2016	0.0004 (J)	
2/23/2017	0.0003 (J)	
5/9/2017	0.0002 (J)	
7/18/2017	0.0002 (J)	
10/18/2017	0.0004 (J)	
2/21/2018	<0.003	
8/7/2018	0.00026 (J)	
2/26/2019	0.00038 (J)	
6/13/2019	0.00051 (J)	
8/21/2019	0.00046 (J)	
10/10/2019	0.00039 (J)	
3/17/2020	0.00095 (J)	
8/28/2020	0.0005 (J)	
9/22/2020	0.00042 (J)	
3/2/2021	0.00081	
8/18/2021	0.0011	
2/8/2022		0.001

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019	<0.003	
6/12/2019	<0.003	
8/19/2019	<0.003	
10/10/2019	<0.003	
3/18/2020	<0.003	
8/28/2020	<0.003	
9/22/2020	5.8E-05 (J)	
3/1/2021	6E-05 (J)	
8/18/2021	0.00011 (J)	
2/8/2022		8.5E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.00026 (J)	
2/3/2015	0.00023 (J)	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00048 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0003 (J)	
2/24/2017	0.0002 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.003	
8/7/2018	0.00096 (J)	
2/26/2019	0.0015 (J)	
6/13/2019	0.0015 (J)	
8/21/2019	0.0028 (J)	
10/9/2019	0.0022 (J)	
3/18/2020	0.0028 (J)	
8/27/2020	0.0023 (J)	
9/23/2020	0.0023 (J)	
3/2/2021	0.0037	
8/18/2021	0.0033	
2/9/2022		0.0036

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025 (D)	
2/16/2016	<0.0025	
8/31/2016	<0.0025	
11/29/2016	8E-05 (J)	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019	<0.0025	
6/13/2019	<0.0025	
8/20/2019	<0.0025	
10/9/2019	<0.0025	
3/17/2020	<0.0025	
8/27/2020	0.00012 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00013 (J)	
8/18/2021	0.00017 (J)	
2/8/2022		0.00019 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/6/2012	<0.0005	
9/11/2012	<0.0005	
2/6/2013	<0.0005	
8/13/2013	<0.0005	
2/4/2014	<0.0005	
8/5/2014	<0.0005	
2/2/2015	<0.0005	
8/4/2015	<0.0005	
2/17/2016	<0.0005	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019	<0.0005	
6/12/2019	<0.0005	
8/20/2019	<0.0005	
10/9/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	0.00015 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00016 (J)	
8/18/2021	0.00016 (J)	
2/9/2022		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/5/2014	<0.0025	
8/4/2014	0.00034 (J)	
2/3/2015	<0.0025	
8/3/2015	<0.0025 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.0025	
11/30/2016	<0.0025	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/18/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019	0.00011 (J)	
6/13/2019	0.00021 (J)	
8/21/2019	<0.0025	
10/10/2019	0.00018 (J)	
3/17/2020	0.00037 (J)	
8/28/2020	0.00014 (J)	
9/22/2020	0.00013 (J)	
3/2/2021	0.00021 (J)	
8/18/2021	0.00022 (J)	
2/8/2022		0.00018 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/4/2012	<0.0005	
9/10/2012	<0.0005	
2/6/2013	<0.0005	
8/14/2013	<0.0005	
2/4/2014	<0.0005	
8/4/2014	<0.0005	
2/2/2015	<0.0005	
8/3/2015	<0.0005 (D)	
2/16/2016	<0.0005	
9/1/2016	0.0001 (J)	
11/30/2016	<0.0005	
2/24/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019	<0.0005	
6/12/2019	<0.0005	
8/19/2019	<0.0005	
10/10/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	<0.0005	
9/22/2020	<0.0005	
3/1/2021	<0.0005	
8/18/2021	<0.0005	
2/8/2022		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	0.00045 (J)	
2/3/2015	<0.001	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00097 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0004 (J)	
2/24/2017	0.0003 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.001	
8/7/2018	0.00083 (J)	
2/26/2019	0.00081 (J)	
6/13/2019	0.00073 (J)	
8/21/2019	0.0012 (J)	
10/9/2019	0.0011 (J)	
3/18/2020	0.0012 (J)	
8/27/2020	0.00091 (J)	
9/23/2020	0.00094 (J)	
3/2/2021	0.0011	
8/18/2021	0.001	
2/9/2022		0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0029	
9/11/2007	0.0084	
3/20/2008	0.0027	
8/27/2008	0.0026	
3/3/2009	0.0022	
11/18/2009	0.0036	
3/3/2010	<0.005	
9/8/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	<0.005	
2/5/2014	0.0059	
8/5/2014	<0.005	
2/4/2015	<0.005	
8/3/2015	0.0011 (J)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/12/2019	<0.005	
8/19/2019	<0.005	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/26/2020	<0.005	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/20/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	0.0028	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0012 (J)	
11/29/2016	0.0009 (J)	
2/23/2017	0.001 (J)	
5/9/2017	0.0011 (J)	
7/18/2017	0.0008 (J)	
10/17/2017	0.001 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.0009 (J)	
8/20/2019	0.0011 (J)	
10/9/2019	0.0012 (J)	
3/17/2020	0.001 (J)	
8/27/2020	0.0013 (J)	
9/22/2020	0.0012 (J)	
3/1/2021	0.0012 (J)	
8/18/2021	0.0015 (J)	
2/8/2022		0.002 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0017	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	0.0008 (J)	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/20/2019	<0.005	
10/9/2019	0.00059 (J)	
3/18/2020	0.0004 (J)	
8/28/2020	0.00057 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0019	
2/5/2014	0.0023	
8/4/2014	0.002	
2/3/2015	0.0014	
8/3/2015	0.0012 (JD)	
2/16/2016	0.0017	
8/31/2016	0.0013 (J)	
11/30/2016	0.001 (J)	
2/23/2017	0.0012 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0009 (J)	
10/18/2017	0.001 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00073 (J)	
8/21/2019	0.001 (J)	
10/10/2019	0.0014 (J)	
3/17/2020	0.0013 (J)	
8/28/2020	0.00088 (J)	
9/22/2020	0.0011 (J)	
3/2/2021	0.001 (J)	
8/18/2021	<0.005	
2/8/2022		0.0011 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0062	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	0.0013 (J)	
2/24/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.0011 (J)	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
8/19/2019	0.00051 (J)	
10/10/2019	0.00057 (J)	
3/18/2020	<0.005	
8/28/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	0.0016	
2/5/2014	0.0018	
8/4/2014	0.0029	
2/3/2015	0.0017	
8/3/2015	0.0028 (D)	
2/16/2016	0.0028	
9/1/2016	0.0021 (J)	
12/1/2016	0.0017 (J)	
2/24/2017	0.0018 (J)	
5/10/2017	0.0024 (J)	
7/17/2017	0.0017 (J)	
10/16/2017	0.0023 (J)	
2/21/2018	<0.01	
8/7/2018	0.0024 (J)	
2/26/2019	0.0019 (J)	
6/13/2019	0.0018 (J)	
8/21/2019	0.0024 (J)	
10/9/2019	0.0024 (J)	
3/18/2020	0.0023 (J)	
8/27/2020	0.0022 (J)	
9/23/2020	0.002 (J)	
3/2/2021	0.0021 (J)	
8/18/2021	0.0023 (J)	
2/9/2022		0.0022 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	0.0018	
3/5/2012	<0.01	
9/5/2012	0.0013	
2/5/2013	<0.01	
8/13/2013	0.0025	
2/4/2014	0.0013	
8/5/2014	0.0018	
2/3/2015	0.0015	
8/4/2015	0.0028	
2/16/2016	0.001 (J)	
9/1/2016	0.0015 (J)	
11/29/2016	0.0014 (J)	
2/23/2017	0.0017 (J)	
5/10/2017	0.0015 (J)	
7/18/2017	0.0012 (J)	
10/18/2017	0.0012 (J)	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019	<0.01	
6/13/2019	0.00089 (J)	
8/20/2019	0.0017 (J)	
10/8/2019	0.0014 (J)	
3/17/2020	0.0013 (J)	
8/27/2020	0.0012 (J)	
9/23/2020	0.0015 (J)	
3/3/2021	0.0014 (J)	
8/18/2021	0.0015 (J)	
2/8/2022		0.0017 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	
5/1/2007	0.0067	
9/11/2007	<0.005	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	<0.005	
11/18/2009	<0.005	
3/3/2010	0.0027	
9/8/2010	0.007	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	0.0032	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/12/2013	0.0045	
2/5/2014	<0.005	
8/5/2014	0.0027	
2/4/2015	0.0016	
8/3/2015	0.002	
2/16/2016	0.0027	
8/31/2016	0.0053 (J)	
11/28/2016	0.0036 (J)	
2/22/2017	0.0049 (J)	
5/8/2017	0.0059 (J)	
7/17/2017	0.0046 (J)	
10/16/2017	0.0034 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019	0.001 (J)	
6/12/2019	0.003 (J)	
8/19/2019	0.0035 (J)	
10/8/2019	0.0039 (J)	
3/17/2020	0.003 (J)	
8/26/2020	0.2 (o)	
9/22/2020	0.16 (o)	
3/2/2021	0.21 (o)	
8/20/2021	0.074 (o)	
2/8/2022		0.072 (o)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.015	
3/5/2012	<0.005	
9/5/2012	0.0018	
2/5/2013	0.0013	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0015	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	0.0006 (J)	
11/29/2016	<0.005	
2/23/2017	0.0009 (J)	
5/9/2017	0.0008 (J)	
7/18/2017	0.0032 (J)	
10/17/2017	0.0007 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00033 (J)	
8/20/2019	0.00079 (J)	
10/9/2019	0.00064 (J)	
3/17/2020	0.00054 (J)	
8/27/2020	0.00081 (J)	
9/22/2020	0.0008 (J)	
3/1/2021	0.00083 (J)	
8/18/2021	0.0014 (J)	
2/8/2022		0.0019 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.038	
1/4/2011	0.049	
2/17/2011	0.044	
3/11/2011	0.038	
3/28/2011	0.029	
9/7/2011	0.031	
3/6/2012	0.021	
9/11/2012	0.017	
2/6/2013	0.025	
8/13/2013	0.023	
2/4/2014	0.019	
8/5/2014	0.023	
2/2/2015	0.022	
8/4/2015	0.021	
2/17/2016	0.024	
8/31/2016	0.0239	
11/28/2016	0.0189	
2/22/2017	0.0184	
5/10/2017	0.0213	
7/18/2017	0.0261	
10/17/2017	0.0182	
2/20/2018	<0.005	
8/8/2018	0.014	
2/26/2019	0.029	
6/12/2019	0.013	
8/20/2019	0.014	
10/9/2019	0.024	
3/18/2020	0.019	
8/28/2020	0.0072	
9/22/2020	0.0054	
3/1/2021	0.00074 (J)	
8/18/2021	0.00066 (J)	
2/9/2022		0.00085 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.01	
8/21/2019	0.0016 (J)	
10/10/2019	<0.005	
3/17/2020	0.011	
8/28/2020	0.0041 (J)	
9/22/2020	0.0021 (J)	
3/2/2021	0.0086	
8/18/2021	0.01	
2/8/2022		0.0074

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0036	
2/17/2011	0.0035	
3/11/2011	0.0053	
3/28/2011	<0.005	
9/7/2011	0.0033	
3/4/2012	0.0032	
9/10/2012	0.0067	
2/6/2013	0.0024	
8/14/2013	0.0014	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.0082	
9/1/2016	0.0023 (J)	
11/30/2016	0.0008 (J)	
2/24/2017	0.0025 (J)	
5/10/2017	<0.005	
7/18/2017	0.0005 (J)	
10/17/2017	0.0006 (J)	
2/20/2018	<0.005	
8/8/2018	0.001 (J)	
2/26/2019	<0.005	
6/12/2019	0.00078 (J)	
8/19/2019	0.001 (J)	
10/10/2019	0.00099 (J)	
3/18/2020	0.0031 (J)	
8/28/2020	0.00049 (J)	
9/22/2020	0.00039 (J)	
3/1/2021	0.0016 (J)	
8/18/2021	0.0027 (J)	
2/8/2022		0.0034 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
8/21/2019	0.00034 (J)	
10/9/2019	0.00031 (J)	
3/18/2020	0.00044 (J)	
8/27/2020	<0.005	
9/23/2020	<0.005	
3/2/2021	0.00039 (J)	
8/18/2021	0.00053 (J)	
2/9/2022		0.00064 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	0.0014	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
6/13/2019	<0.005	
8/20/2019	<0.005	
10/8/2019	<0.005	
3/17/2020	<0.005	
8/27/2020	<0.005	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0047	
9/11/2007	<0.025	
3/20/2008	<0.025	
8/27/2008	0.0074	
3/3/2009	<0.025	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.025	
3/10/2011	0.0029	
9/8/2011	<0.025	
3/5/2012	<0.025	
9/10/2012	<0.025	
2/6/2013	<0.025	
8/12/2013	<0.025	
2/5/2014	<0.025	
8/5/2014	0.005	
2/4/2015	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.025	
8/6/2018	<0.025	
2/25/2019	<0.025	
6/12/2019	0.00034 (J)	
10/8/2019	0.00041 (J)	
3/17/2020	0.00078 (J)	
9/22/2020	0.0041 (J)	
3/2/2021	0.0027 (J)	
8/20/2021	0.0012 (J)	
2/8/2022		0.0012 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0031 (J)	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/9/2019	0.00079 (J)	
3/17/2020	0.0004 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	0.00067 (J)	
2/8/2022		0.00072 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	<0.005	
10/9/2019	0.00024 (J)	
3/18/2020	<0.005	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	0.016	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0012 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00082 (J)	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/10/2019	0.00033 (J)	
3/17/2020	0.00039 (J)	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0049	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00088 (J)	
2/24/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	<0.005	
6/12/2019	0.00025 (J)	
10/10/2019	<0.005	
3/18/2020	0.00021 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0015 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	0.00049 (J)	
10/9/2019	0.00087 (J)	
3/18/2020	0.00097 (J)	
9/23/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	0.0022 (J)	
2/9/2022		0.0014 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.0028	
11/18/2009	0.0027	
1/5/2010	0.0035	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	0.0012 (J)	
2/3/2015	0.0013 (J)	
8/4/2015	0.0043 (J)	
2/16/2016	<0.005	
2/23/2017	0.0018 (J)	
2/19/2018	<0.005	
8/6/2018	0.0016 (J)	
2/25/2019	0.0016 (J)	
6/13/2019	0.0011 (J)	
10/8/2019	0.0011 (J)	
3/17/2020	0.00091 (J)	
9/23/2020	<0.005	
3/3/2021	<0.005	
8/18/2021	0.00083 (J)	
2/8/2022		0.0008 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
8/3/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	<0.001	
10/8/2019	<0.001	
3/17/2020	<0.001	
8/26/2020	<0.001	
9/22/2020	0.0001 (J)	
3/2/2021	<0.001	
8/20/2021	<0.001	
2/8/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/29/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/20/2019	<0.001	
10/9/2019	5.2E-05 (J)	
3/17/2020	<0.001	
8/27/2020	6.7E-05 (J)	
9/22/2020	<0.001	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/8/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001	
2/17/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	0.0001 (J)	
7/18/2017	7E-05 (J)	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/20/2019	6.1E-05 (J)	
10/9/2019	5.7E-05 (J)	
3/18/2020	<0.001	
8/28/2020	8.4E-05 (J)	
9/22/2020	8.2E-05 (J)	
3/1/2021	7E-05 (J)	
8/18/2021	<0.001	
2/9/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:28 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	0.0001 (J)	
11/30/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/18/2017	8E-05 (J)	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	8.2E-05 (J)	
10/10/2019	<0.001	
3/17/2020	0.00015 (J)	
8/28/2020	5.4E-05 (J)	
9/22/2020	6.4E-05 (J)	
3/2/2021	9.6E-05 (J)	
8/18/2021	<0.001	
2/8/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/4/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/14/2013	<0.001	
2/4/2014	<0.001	
8/4/2014	<0.001	
2/2/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
11/30/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	<0.001	
10/10/2019	<0.001	
3/18/2020	<0.001	
8/28/2020	<0.001	
9/22/2020	4.1E-05 (J)	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/8/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	7E-05 (J)	
10/9/2019	5.9E-05 (J)	
3/18/2020	7.9E-05 (J)	
8/27/2020	4.9E-05 (J)	
9/23/2020	0.00019 (J)	
3/2/2021	5.4E-05 (J)	
8/18/2021	<0.001	
2/9/2022		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.0002	
9/11/2007	<0.0002	
3/20/2008	<0.0002	
8/27/2008	<0.0002	
3/3/2009	<0.0002	
11/18/2009	<0.0002	
3/3/2010	<0.0002	
9/8/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	<0.0002	
8/12/2013	<0.0002	
2/5/2014	<0.0002	
8/5/2014	<0.0002	
2/4/2015	<0.0002	
8/3/2015	<0.0002	
2/16/2016	1.36E-05 (J)	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/8/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019	7.4E-05 (J)	
6/12/2019	<0.0002	
8/19/2019	<0.0002	
10/8/2019	<0.0002	
5/6/2020	<0.0002	
8/26/2020	<0.0002	
9/22/2020	<0.0002	
3/2/2021	<0.0002	
8/20/2021	<0.0002	
2/8/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002 (D)	
2/16/2016	<0.0002	
8/31/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	5.9E-05 (J)	
6/13/2019	<0.0002	
8/20/2019	<0.0002	
10/9/2019	<0.0002	
5/6/2020	<0.0002	
8/27/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/6/2012	<0.0002	
9/11/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002	
2/17/2016	<0.0002	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019	7.1E-05 (J)	
6/12/2019	<0.0002	
8/20/2019	<0.0002	
10/9/2019	<0.0002	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/9/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	1.34E-05 (J)	
8/31/2016	<0.0002	
11/30/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	6.4E-05 (J)	
6/13/2019	<0.0002	
8/21/2019	<0.0002	
10/10/2019	0.00043 (J)	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/2/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/4/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	0.00014	
8/14/2013	<0.0002	
2/4/2014	<0.0002	
8/4/2014	<0.0002	
2/2/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
11/30/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019	5.8E-05 (J)	
6/12/2019	<0.0002	
8/19/2019	<0.0002	
10/10/2019	<0.0002	
5/7/2020	<0.0002	
8/28/2020	<0.0002	
9/22/2020	<0.0002	
3/1/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/14/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
12/1/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019	6E-05 (J)	
6/13/2019	<0.0002	
8/21/2019	<0.0002	
10/9/2019	<0.0002	
5/7/2020	<0.0002	
8/27/2020	<0.0002	
9/23/2020	<0.0002	
3/2/2021	<0.0002	
8/18/2021	<0.0002	
2/9/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.0002	
11/18/2009	<0.0002	
1/5/2010	<0.0002	
3/3/2010	<0.0002	
9/7/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/3/2015	<0.0002	
8/4/2015	<0.0002	
2/16/2016	1.13E-05 (J)	
9/1/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019	6.7E-05 (J)	
6/13/2019	<0.0002	
8/20/2019	<0.0002	
10/8/2019	<0.0002	
5/6/2020	<0.0002	
8/27/2020	<0.0002	
9/23/2020	<0.0002	
3/3/2021	<0.0002	
8/18/2021	<0.0002	
2/8/2022		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0061	
9/11/2007	0.021	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	0.005	
11/18/2009	0.0052	
3/3/2010	0.011	
9/8/2010	0.012	
3/10/2011	0.0032	
9/8/2011	0.0046	
3/5/2012	0.0053	
9/10/2012	0.0074	
2/6/2013	0.0077	
8/12/2013	0.016	
2/5/2014	0.019	
8/5/2014	0.0057	
2/4/2015	0.0055	
8/3/2015	0.0055	
2/16/2016	0.0039	
2/22/2017	0.0051 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019	0.0026 (J)	
6/12/2019	0.0038 (J)	
10/8/2019	0.0051 (J)	
3/17/2020	0.0066	
9/22/2020	0.027	
3/2/2021	0.034	
8/20/2021	0.014	
2/8/2022		0.017

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.009	
3/5/2012	0.0035	
9/5/2012	0.0027	
2/5/2013	0.0026	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0013 (J)	
2/2/2015	0.0023 (J)	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	0.0026 (J)	
2/21/2018	0.001 (J)	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.00072 (J)	
10/9/2019	0.0015 (J)	
3/17/2020	0.00087 (J)	
9/22/2020	0.0021 (J)	
3/1/2021	0.0024 (J)	
8/18/2021	0.0028 (J)	
2/8/2022		0.0032 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0096	
1/4/2011	0.0084	
2/17/2011	0.0088	
3/11/2011	0.0058	
3/28/2011	0.0058	
9/7/2011	0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.003	
2/4/2014	0.0026	
8/5/2014	0.0015 (J)	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	0.0009 (J)	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019	0.0068 (J)	
6/12/2019	0.00043 (J)	
10/9/2019	0.00058 (J)	
3/18/2020	0.00063 (J)	
9/22/2020	<0.005	
3/1/2021	<0.005	
8/18/2021	<0.005	
2/9/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0054	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0032	
2/5/2014	0.0039	
8/4/2014	0.0024 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019	<0.005	
6/13/2019	<0.005	
10/10/2019	<0.005	
3/17/2020	0.00056 (J)	
9/22/2020	<0.005	
3/2/2021	<0.005	
8/18/2021	<0.005	
2/8/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0033	
8/4/2014	0.0015 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	0.0021 (J)	
2/20/2018	<0.01	
8/8/2018	0.0012 (J)	
2/26/2019	<0.01	
6/12/2019	0.00082 (J)	
10/10/2019	0.00084 (J)	
3/18/2020	0.0026 (J)	
9/22/2020	0.00077 (J)	
3/1/2021	0.0021 (J)	
8/18/2021	0.0026 (J)	
2/8/2022		0.0017 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/14/2013	0.0032	
2/5/2014	0.0032	
8/4/2014	0.0059	
2/3/2015	0.0013 (J)	
8/3/2015	0.0039 (D)	
2/16/2016	0.0036	
2/24/2017	0.0019 (J)	
2/21/2018	0.0013 (J)	
8/7/2018	0.0019 (J)	
2/26/2019	0.0023 (J)	
6/13/2019	0.0019 (J)	
10/9/2019	0.0019 (J)	
3/18/2020	0.002 (J)	
9/23/2020	0.0012 (J)	
3/2/2021	0.0014 (J)	
8/18/2021	0.0016 (J)	
2/9/2022		0.0014 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
2/23/2017	0.0015 (J)	
2/19/2018	<0.005	
8/6/2018	0.0026 (J)	
2/25/2019	0.0023 (J)	
6/13/2019	0.0037 (J)	
10/8/2019	0.0021 (J)	
3/17/2020	0.0011 (J)	
9/23/2020	0.0016 (J)	
3/3/2021	0.0016 (J)	
8/18/2021	0.0012 (J)	
2/8/2022		0.001 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0039 (J)	
11/29/2016	0.0033 (J)	
2/23/2017	0.0097 (J)	
5/9/2017	0.0066 (J)	
7/18/2017	0.0021 (J)	
10/17/2017	0.003 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	0.0014 (J)	
6/13/2019	<0.01	
8/20/2019	0.0022 (J)	
10/9/2019	0.0023 (J)	
3/17/2020	0.0017 (J)	
8/27/2020	0.011	
9/22/2020	0.012	
3/1/2021	0.011	
8/18/2021	0.019	
2/8/2022		0.02

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
8/31/2016	0.0029 (J)	
11/28/2016	0.0019 (J)	
2/22/2017	0.0015 (J)	
5/10/2017	0.0016 (J)	
7/18/2017	0.0024 (J)	
10/17/2017	0.0028 (J)	
2/20/2018	<0.01	
8/8/2018	0.0025 (J)	
2/26/2019	0.003 (J)	
6/12/2019	0.0034 (J)	
8/20/2019	0.0032 (J)	
10/9/2019	0.0026 (J)	
3/18/2020	0.0032 (J)	
8/28/2020	0.0037 (J)	
9/22/2020	0.0056 (J)	
3/1/2021	0.0043 (J)	
8/18/2021	0.0042 (J)	
2/9/2022		0.0042 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	0.0057	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0038 (J)	
11/30/2016	0.0054 (J)	
2/23/2017	0.002 (J)	
5/9/2017	<0.01	
7/18/2017	0.0027 (J)	
10/18/2017	0.0047 (J)	
2/21/2018	<0.01	
8/7/2018	0.0016 (J)	
2/26/2019	0.002 (J)	
6/13/2019	0.0089 (J)	
8/21/2019	0.004 (J)	
10/10/2019	0.0021 (J)	
3/17/2020	0.0096 (J)	
8/28/2020	0.0045 (J)	
9/22/2020	0.0091 (J)	
3/2/2021	0.012	
8/18/2021	0.017	
2/8/2022		0.0091

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	0.011	
2/6/2013	0.011	
8/14/2013	0.013	
2/4/2014	0.017	
8/4/2014	0.0085	
2/2/2015	0.0089	
8/3/2015	0.0067 (D)	
2/16/2016	0.0047 (J)	
9/1/2016	0.0132	
11/30/2016	0.0046 (J)	
2/24/2017	0.0108	
5/10/2017	0.0054 (J)	
7/18/2017	0.0047 (J)	
10/17/2017	0.004 (J)	
2/20/2018	<0.01	
8/8/2018	0.0041 (J)	
2/26/2019	0.0027 (J)	
6/12/2019	0.0029 (J)	
8/19/2019	0.003 (J)	
10/10/2019	0.0024 (J)	
3/18/2020	0.0046 (J)	
8/28/2020	0.0031 (J)	
9/22/2020	0.0032 (J)	
3/1/2021	0.0041 (J)	
8/18/2021	0.0046 (J)	
2/8/2022		0.0044 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.013	
3/5/2012	0.014	
9/5/2012	0.012	
2/5/2013	0.011	
8/14/2013	0.025	
2/5/2014	0.02	
8/4/2014	0.032	
2/3/2015	0.011	
8/3/2015	0.046 (D)	
2/16/2016	0.022	
9/1/2016	0.0212	
12/1/2016	0.0234	
2/24/2017	0.0154	
5/10/2017	0.0152	
7/17/2017	0.0136	
10/16/2017	0.0242	
2/21/2018	0.0127	
8/7/2018	0.021	
2/26/2019	0.024	
6/13/2019	0.027	
8/21/2019	0.037	
10/9/2019	0.034	
3/18/2020	0.028	
8/27/2020	0.021	
9/23/2020	0.026	
3/2/2021	0.019	
8/18/2021	0.017	
2/9/2022		0.017

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	0.002 (J)	
11/29/2016	0.0017 (J)	
2/23/2017	0.0018 (J)	
5/10/2017	0.0023 (J)	
7/18/2017	0.0046 (J)	
10/18/2017	0.0037 (J)	
2/19/2018	<0.005	
8/6/2018	0.0047 (J)	
2/25/2019	0.0051 (J)	
6/13/2019	0.0048 (J)	
8/20/2019	0.0039 (J)	
10/8/2019	0.0031 (J)	
3/17/2020	0.0026 (J)	
8/27/2020	0.0027 (J)	
9/23/2020	0.0031 (J)	
3/3/2021	0.002 (J)	
8/18/2021	0.0016 (J)	
2/8/2022		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.001	
9/11/2007	<0.001	
3/20/2008	<0.001	
8/27/2008	<0.001	
3/3/2009	<0.001	
11/18/2009	<0.001	
3/3/2010	<0.001	
9/8/2010	<0.001	
3/10/2011	<0.001	
9/8/2011	<0.001	
3/5/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/12/2013	<0.001	
2/5/2014	<0.001	
8/5/2014	<0.001	
2/4/2015	<0.001	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	6E-05 (J)	
7/17/2017	6E-05 (J)	
10/16/2017	7E-05 (J)	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019	<0.001	
6/12/2019	<0.001	
8/19/2019	5.5E-05 (J)	
10/8/2019	<0.001	
3/17/2020	<0.001	
8/26/2020	<0.001	
9/22/2020	<0.001	
3/2/2021	<0.001	
8/20/2021	<0.001	
2/8/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
2/2/2015	<0.001	
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019	<0.001	
6/12/2019	<0.001	
8/20/2019	<0.001	
10/9/2019	<0.001	
3/18/2020	<0.001	
8/28/2020	<0.001	
9/22/2020	<0.001	
3/1/2021	<0.001	
8/18/2021	<0.001	
2/9/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019	<0.001	
6/13/2019	<0.001	
8/21/2019	5.3E-05 (J)	
10/9/2019	<0.001	
3/18/2020	<0.001	
8/27/2020	<0.001	
9/23/2020	<0.001	
3/2/2021	<0.001	
8/18/2021	<0.001	
2/9/2022		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0055	
9/11/2007	0.004	
3/20/2008	<0.01	
8/27/2008	0.0029	
3/3/2009	<0.01	
11/18/2009	<0.01	
3/3/2010	<0.01	
9/8/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/12/2013	<0.01	
2/5/2014	<0.01	
8/5/2014	<0.01	
2/4/2015	<0.01	
8/3/2015	0.0013 (J)	
2/16/2016	<0.01	
2/22/2017	<0.01	
5/8/2017	<0.01	
7/17/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019	<0.01	
6/12/2019	0.0032 (J)	
10/8/2019	<0.01	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/2/2021	<0.01	
8/20/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0011 (J)	
2/2/2015	0.0051	
8/4/2015	<0.01 (D)	
2/16/2016	0.00075 (J)	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	<0.01	
10/9/2019	<0.01	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
2/22/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019	<0.01	
6/12/2019	0.00079 (J)	
10/9/2019	<0.01	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	0.0021 (J)	
10/10/2019	0.0011 (J)	
3/17/2020	<0.01	
9/22/2020	<0.01	
3/2/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	<0.01	
8/4/2014	<0.01	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019	<0.01	
6/12/2019	0.00088 (J)	
10/10/2019	<0.01	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	0.0022 (J)	
2/3/2015	<0.01	
8/3/2015	0.0019 (JD)	
2/16/2016	0.0011 (J)	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/17/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019	<0.01	
6/13/2019	<0.01	
10/9/2019	<0.01	
3/18/2020	<0.01	
9/23/2020	<0.01	
3/2/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0015 (J)	
2/3/2015	0.00093 (J)	
8/4/2015	0.0036 (J)	
2/16/2016	0.0011 (J)	
2/23/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	0.0029 (J)	
2/25/2019	<0.01	
6/13/2019	<0.01	
10/8/2019	<0.01	
3/17/2020	0.00098 (J)	
9/23/2020	<0.01	
3/3/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0081	
9/11/2007	0.0049	
3/20/2008	0.004	
8/27/2008	0.0042	
3/3/2009	0.0058	
11/18/2009	0.0038	
3/3/2010	0.0085	
9/8/2010	0.0065	
3/10/2011	0.0029	
9/8/2011	0.004	
3/5/2012	0.0059	
9/10/2012	0.0052	
2/6/2013	0.0038	
8/12/2013	0.0075	
2/5/2014	0.018 (o)	
8/5/2014	0.0037	
2/4/2015	0.0057	
8/3/2015	0.0043	
2/16/2016	0.0024 (J)	
2/22/2017	0.0042 (J)	
5/8/2017	0.0025 (J)	
7/17/2017	0.0032 (J)	
2/19/2018	<0.01	
8/6/2018	0.0037 (J)	
2/25/2019	0.013	
6/12/2019	<0.01	
10/8/2019	0.0078 (J)	
3/17/2020	<0.01	
9/22/2020	0.033	
3/2/2021	0.031	
8/20/2021	0.014	
2/8/2022		0.014

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.0048	
3/5/2012	0.0038	
9/5/2012	0.0051	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	0.0037	
8/5/2014	0.0019 (J)	
2/2/2015	0.0051	
8/4/2015	0.0017 (JD)	
2/16/2016	0.0015 (J)	
2/23/2017	0.0024 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0015 (J)	
2/21/2018	<0.01	
8/7/2018	0.0044 (J)	
2/26/2019	0.0022 (J)	
6/13/2019	<0.01	
10/9/2019	0.0078 (J)	
3/17/2020	<0.01	
9/22/2020	0.0029 (J)	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0047	
1/4/2011	0.0038	
2/17/2011	0.0074	
3/11/2011	0.0038	
3/28/2011	<0.01	
9/7/2011	0.0059	
3/6/2012	0.0032	
9/11/2012	0.0029	
2/6/2013	0.0036	
8/13/2013	0.0066	
2/4/2014	0.011	
8/5/2014	0.0032	
2/2/2015	0.0031	
8/4/2015	0.0017 (J)	
2/17/2016	0.0034	
2/22/2017	0.0024 (J)	
5/10/2017	0.0022 (J)	
7/18/2017	0.0017 (J)	
2/20/2018	<0.01	
8/8/2018	0.0021 (J)	
2/26/2019	0.003 (J)	
6/12/2019	0.0019 (J)	
10/9/2019	0.0069 (J)	
3/18/2020	<0.01	
9/22/2020	0.003 (J)	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/9/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0064	
3/5/2012	0.0043	
9/5/2012	0.0069	
2/6/2013	<0.01	
8/13/2013	0.011	
2/5/2014	0.026 (o)	
8/4/2014	0.012	
2/3/2015	0.0061	
8/3/2015	0.0037 (D)	
2/16/2016	0.0093	
2/23/2017	0.0031 (J)	
5/9/2017	0.0025 (J)	
7/18/2017	0.0028 (J)	
2/21/2018	0.003 (J)	
8/7/2018	0.0036 (J)	
2/26/2019	0.0033 (J)	
6/13/2019	0.0069 (J)	
10/10/2019	0.0079 (J)	
3/17/2020	<0.01	
9/22/2020	0.0036 (J)	
3/2/2021	0.0069 (J)	
8/18/2021	0.011	
2/8/2022		0.0098 (J)

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	0.025 (o)	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0034	
8/4/2014	0.0013 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	0.0017 (J)	
2/24/2017	0.0028 (J)	
5/10/2017	0.0014 (J)	
7/18/2017	0.0015 (J)	
2/20/2018	<0.01	
8/8/2018	0.0033 (J)	
2/26/2019	<0.01	
6/12/2019	<0.01	
10/10/2019	0.006 (J)	
3/18/2020	<0.01	
9/22/2020	<0.01	
3/1/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.0064	
3/5/2012	0.0034	
9/5/2012	0.0035	
2/5/2013	0.0027	
8/14/2013	0.0041	
2/5/2014	0.011	
8/4/2014	0.011	
2/3/2015	0.0044	
8/3/2015	0.011 (D)	
2/16/2016	0.014	
2/24/2017	0.0043 (J)	
5/10/2017	0.0042 (J)	
7/17/2017	0.0055 (J)	
2/21/2018	0.0102	
8/7/2018	0.015	
2/26/2019	0.015	
6/13/2019	0.015	
10/9/2019	0.025	
1/21/2020	0.015	
3/18/2020	0.023	
9/23/2020	0.018	
3/2/2021	0.022	
8/18/2021	0.026	
2/9/2022		0.025

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 4/27/2022 1:29 PM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.003	
11/18/2009	<0.01	
1/5/2010	0.0027	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	0.0053	
9/5/2012	0.0033	
2/5/2013	<0.01	
8/13/2013	0.0038	
2/4/2014	0.0046	
8/5/2014	0.0019 (J)	
2/3/2015	0.0026	
8/4/2015	0.0035	
2/16/2016	0.002 (J)	
2/23/2017	0.0038 (J)	
5/10/2017	0.0027 (J)	
7/18/2017	0.0024 (J)	
2/19/2018	<0.01	
8/6/2018	0.004 (J)	
2/25/2019	0.0028 (J)	
6/13/2019	<0.01	
10/8/2019	0.006 (J)	
3/17/2020	<0.01	
9/23/2020	<0.01	
3/3/2021	<0.01	
8/18/2021	<0.01	
2/8/2022		<0.01

FIGURE H.

Intrawell Prediction Limits Appendix III - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:40 PM

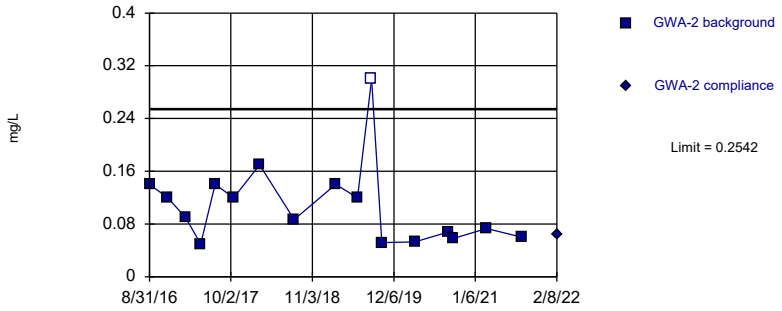
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	2/8/2022	0.064J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	2/9/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	2/8/2022	0.16	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	2/9/2022	0.053J	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	2/8/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	2/8/2022	5.83	No	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	2/8/2022	5.16	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	2/9/2022	5.2	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	2/8/2022	5.1	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	2/8/2022	5.67	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	2/9/2022	4.82	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	2/8/2022	5.89	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.3185, Std. Dev.=0.08513, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8884, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

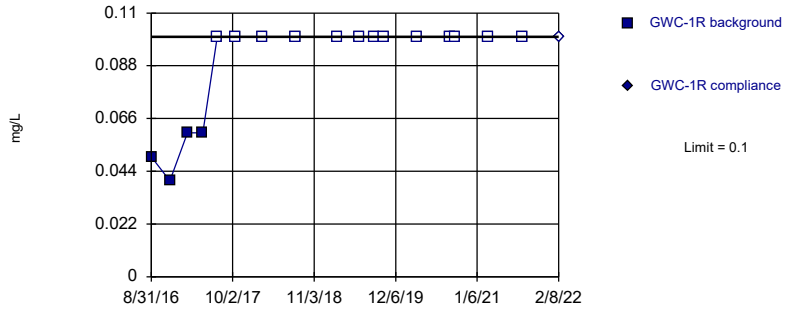
Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

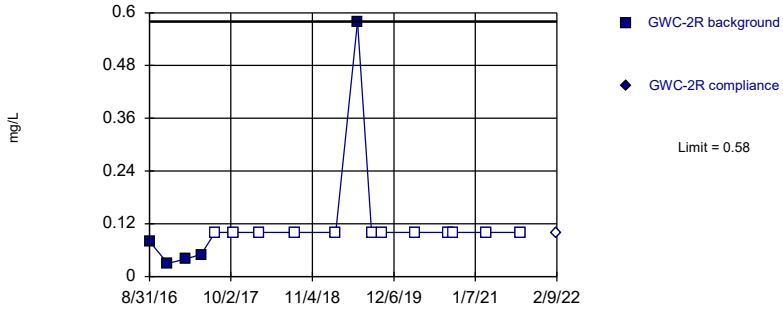
Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

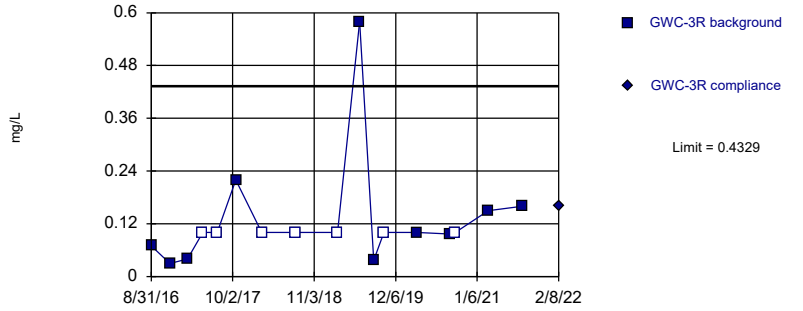
Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



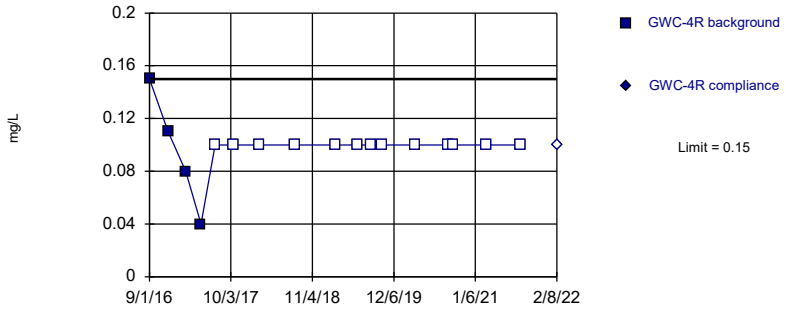
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.548, Std. Dev.=0.7843, n=17, 41.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8757, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



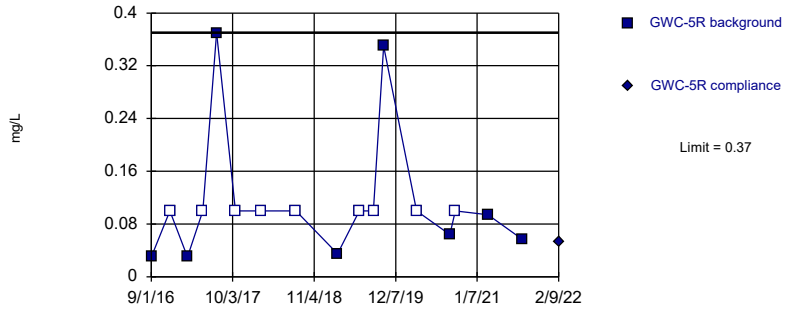
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



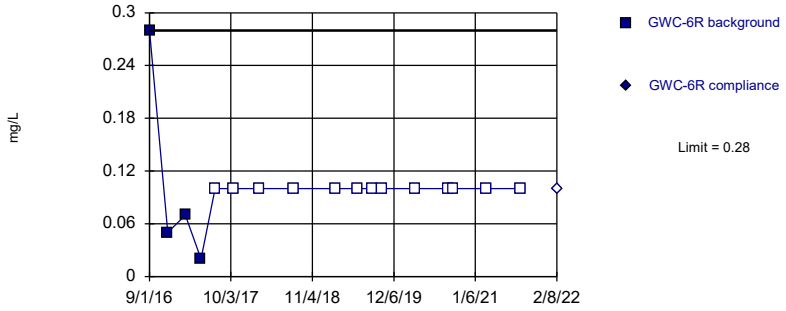
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



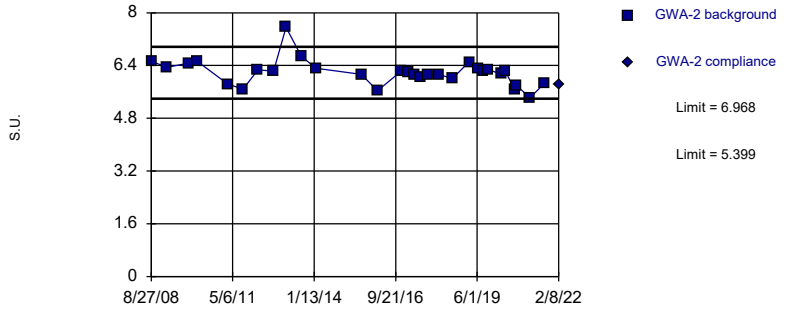
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Within Limits

Prediction Limit

Intrawell Parametric



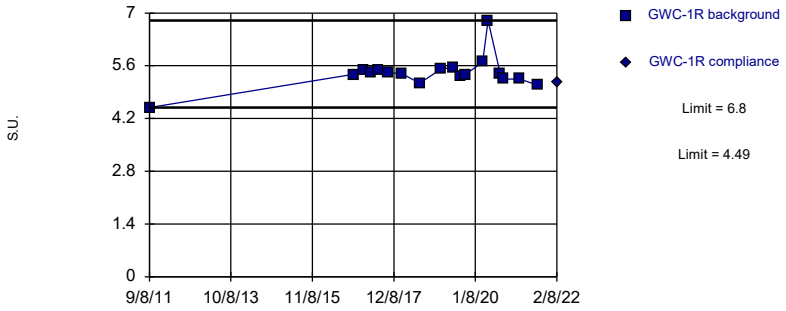
Background Data Summary: Mean=6.184, Std. Dev.=0.3941, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.9. Kappa = 1.991 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell

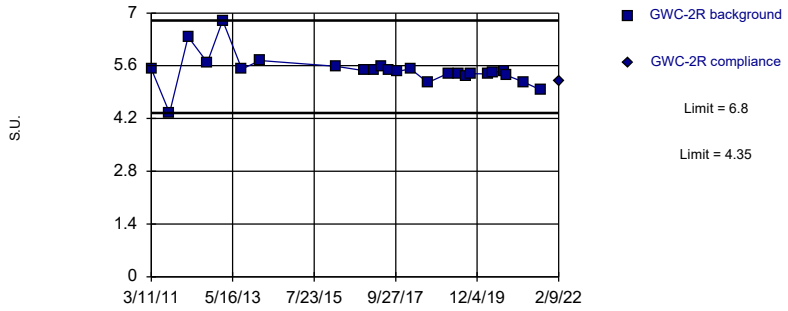
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 25 background values. Well-constituent pair annual alpha = 0.01131. Individual comparison alpha = 0.005664 (1 of 2).

Constituent: pH Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell

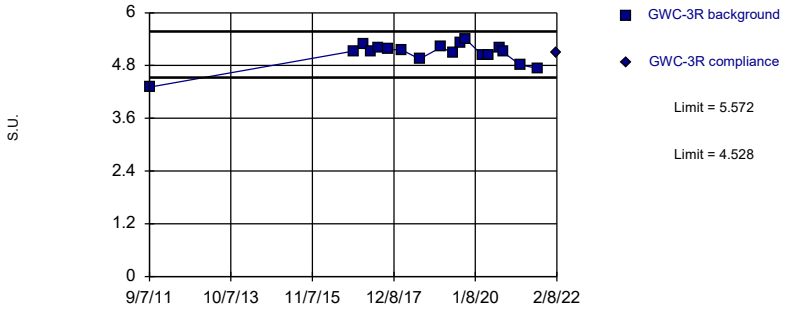
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=25.78, Std. Dev.=2.447, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8717, critical = 0.858. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 4/27/2022 1:32 PM View: PLs Intrawell

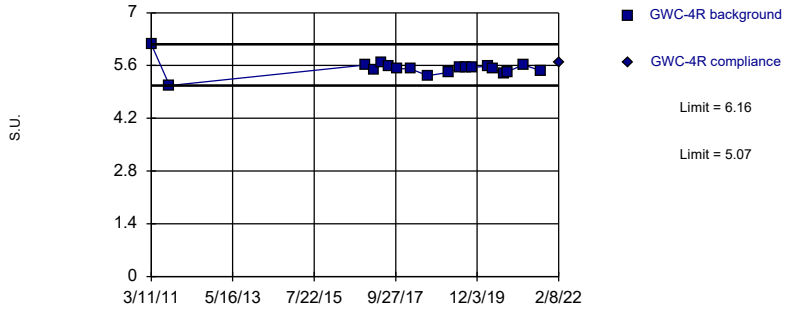
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH Analysis Run 4/27/2022 1:33 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary: Mean=5.084, Std. Dev.=0.2272, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 4/27/2022 1:33 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Non-parametric

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 28 background values. Well-constituent pair annual alpha = 0.009338. Individual comparison alpha = 0.004674 (1 of 2).

Constituent: pH Analysis Run 4/27/2022 1:33 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/31/2016	0.14 (J)	
11/28/2016	0.12 (J)	
2/22/2017	0.09 (J)	
5/8/2017	0.05 (J)	
7/17/2017	0.14 (J)	
10/16/2017	0.12 (J)	
2/19/2018	0.17	
8/6/2018	0.087 (J)	
2/25/2019	0.14 (J)	
6/12/2019	0.12 (J)	
8/19/2019	<0.3	
10/8/2019	0.052 (J)	
3/17/2020	0.053 (J)	
8/26/2020	0.068 (J)	
9/22/2020	0.058 (J)	
3/2/2021	0.073 (J)	
8/20/2021	0.06 (J)	
2/8/2022		0.064 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
8/31/2016	0.05 (J)	
11/29/2016	0.04 (J)	
2/23/2017	0.06 (J)	
5/9/2017	0.06 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019	<0.1	
8/20/2019	<0.1	
10/9/2019	<0.1	
3/17/2020	<0.1	
8/27/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
8/31/2016	0.08 (J)	
11/28/2016	0.03 (J)	
2/22/2017	0.04 (J)	
5/10/2017	0.05 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019	0.58	
8/20/2019	<0.1	
10/9/2019	<0.1	
3/18/2020	<0.1	
8/28/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/9/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
8/31/2016	0.07 (J)	
11/30/2016	0.03 (J)	
2/23/2017	0.04 (J)	
5/9/2017	<0.1	
7/18/2017	<0.1	
10/18/2017	0.22 (J)	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019	0.58	
8/21/2019	0.037 (J)	
10/10/2019	<0.1	
3/17/2020	0.1 (J)	
8/28/2020	0.097 (J)	
9/22/2020	<0.1	
3/2/2021	0.15	
8/18/2021	0.16	
2/8/2022		0.16

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
9/1/2016	0.15 (J)	
11/30/2016	0.11 (J)	
2/24/2017	0.08 (J)	
5/10/2017	0.04 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019	<0.1	
8/19/2019	<0.1	
10/10/2019	<0.1	
3/18/2020	<0.1	
8/28/2020	<0.1	
9/22/2020	<0.1	
3/1/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/1/2016	0.03 (J)	
12/1/2016	<0.1	
2/24/2017	0.03 (J)	
5/10/2017	<0.1	
7/17/2017	0.37	
10/16/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	0.035 (J)	
6/13/2019	<0.1	
8/21/2019	<0.1	
10/9/2019	0.35	
3/18/2020	<0.1	
8/27/2020	0.064 (J)	
9/23/2020	<0.1	
3/2/2021	0.094 (J)	
8/18/2021	0.056 (J)	
2/9/2022		0.053 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/1/2016	0.28 (J)	
11/29/2016	0.05 (J)	
2/23/2017	0.07 (J)	
5/10/2017	0.02 (J)	
7/18/2017	<0.1	
10/18/2017	<0.1	
2/19/2018	<0.1	
8/6/2018	<0.1	
2/25/2019	<0.1	
6/13/2019	<0.1	
8/20/2019	<0.1	
10/8/2019	<0.1	
3/17/2020	<0.1	
8/27/2020	<0.1	
9/23/2020	<0.1	
3/3/2021	<0.1	
8/18/2021	<0.1	
2/8/2022		<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/27/2008	6.53	
3/3/2009	6.35	
11/18/2009	6.47	
3/3/2010	6.53	
3/10/2011	5.83	
9/8/2011	5.69	
3/5/2012	6.27	
9/10/2012	6.23	
2/6/2013	7.56	
8/12/2013	6.68	
2/5/2014	6.32	
8/3/2015	6.13 (D)	
2/16/2016	5.64	
11/28/2016	6.23	
2/22/2017	6.21	
5/8/2017	6.12	
7/17/2017	6.03	
10/16/2017	6.12	
2/19/2018	6.13	
8/6/2018	6.01	
2/25/2019	6.51	
6/12/2019	6.3	
8/19/2019	6.23	
10/8/2019	6.28	
3/17/2020	6.14	
5/6/2020	6.24	
8/26/2020	5.67	
9/22/2020	5.78	
3/2/2021	5.42 (D)	
8/20/2021	5.86	
2/8/2022		5.83

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	4.49	
11/29/2016	5.37	
2/23/2017	5.5	
5/9/2017	5.41	
7/18/2017	5.5	
10/17/2017	5.42	
2/21/2018	5.39	
8/7/2018	5.14	
2/26/2019	5.52	
6/13/2019	5.55	
8/20/2019	5.33	
10/9/2019	5.37	
3/17/2020	5.7	
5/6/2020	6.8	
8/27/2020	5.39	
9/22/2020	5.25	
3/1/2021	5.25	
8/18/2021	5.08	
2/8/2022		5.16

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
3/11/2011	5.52	
9/7/2011	4.35	
3/6/2012	6.37	
9/11/2012	5.69	
2/6/2013	6.8	
8/13/2013	5.51	
2/4/2014	5.74	
2/17/2016	5.59	
11/28/2016	5.47	
2/22/2017	5.48	
5/10/2017	5.6	
7/18/2017	5.49	
10/17/2017	5.45	
2/20/2018	5.52	
8/8/2018	5.15	
2/26/2019	5.4	
6/12/2019	5.38	
8/20/2019	5.33	
10/9/2019	5.39	
3/18/2020	5.38	
5/7/2020	5.43	
8/28/2020	5.45	
9/22/2020	5.34	
3/1/2021	5.17	
8/18/2021	4.96	
2/9/2022		5.2

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	4.31	
11/30/2016	5.13	
2/23/2017	5.28	
5/9/2017	5.12	
7/18/2017	5.21	
10/18/2017	5.17	
2/21/2018	5.15	
8/7/2018	4.95	
2/26/2019	5.22	
6/13/2019	5.08	
8/21/2019	5.32	
10/10/2019	5.4	
3/17/2020	5.03	
5/7/2020	5.05	
8/28/2020	5.2	
9/22/2020	5.11	
3/2/2021	4.82	
8/18/2021	4.73	
2/8/2022		5.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
3/11/2011	6.16	
9/7/2011	5.07	
11/30/2016	5.61	
2/24/2017	5.47	
5/10/2017	5.68	
7/18/2017	5.59	
10/17/2017	5.52	
2/20/2018	5.51	
8/8/2018	5.33	
2/26/2019	5.42	
6/12/2019	5.54	
8/19/2019	5.56	
10/10/2019	5.55	
3/18/2020	5.58	
5/7/2020	5.52	
8/28/2020	5.38	
9/22/2020	5.43	
3/1/2021	5.62	
8/18/2021	5.46	
2/8/2022		5.67

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	5.64	
12/1/2016	5.24	
2/24/2017	5.37	
5/10/2017	5.2	
7/17/2017	5.21	
10/16/2017	5.16	
2/21/2018	5.18	
8/7/2018	5.06	
2/26/2019	5.08	
6/13/2019	5.01	
8/21/2019	4.88	
10/9/2019	4.89	
1/21/2020	4.99	
3/18/2020	4.88	
5/7/2020	5.2	
8/27/2020	5.17	
9/23/2020	5.04	
3/2/2021	4.63	
8/18/2021	4.76	
2/9/2022		4.82

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/27/2022 1:40 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
11/18/2009	5.82	
1/5/2010	5.8	
3/3/2010	6.15	
3/10/2011	6.05	
9/8/2011	5.31	
3/5/2012	6.23	
9/5/2012	5.83	
2/5/2013	6.79	
8/13/2013	6.48	
2/4/2014	6.14	
2/16/2016	5.2	
11/29/2016	5.92	
2/23/2017	5.97	
5/10/2017	5.82	
7/18/2017	5.76	
10/18/2017	5.76	
2/19/2018	5.86	
8/6/2018	5.84	
2/25/2019	5.91	
6/13/2019	5.84	
8/20/2019	5.85	
10/8/2019	5.91	
3/17/2020	5.97	
5/6/2020	5.99	
8/27/2020	5.77	
9/23/2020	5.81	
3/3/2021	5.78	
8/18/2021	5.82	
2/8/2022		5.89

FIGURE I.

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:42 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2R	0.16	n/a	2/9/2022	0.23	Yes	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	2/8/2022	5.3	Yes	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	2/8/2022	166	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	2/9/2022	46.6	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	2/8/2022	66.5	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	2/9/2022	139	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	2/8/2022	61.5	Yes	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	10.9	n/a	2/9/2022	21.2	Yes	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	10.9	n/a	2/8/2022	162	Yes	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	2/8/2022	687	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	2/9/2022	241	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	2/9/2022	937	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	2/8/2022	260	Yes	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.4	n/a	2/8/2022	1310	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.4	n/a	2/9/2022	466	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-3R	218.4	n/a	2/8/2022	231	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.4	n/a	2/8/2022	648	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.4	n/a	2/9/2022	1440	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.4	n/a	2/8/2022	549	Yes	331	10.06	2.585	0.6042	None	sqrt(x)	0.001254	Param Inter 1 of 2

Interwell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/27/2022, 1:42 PM

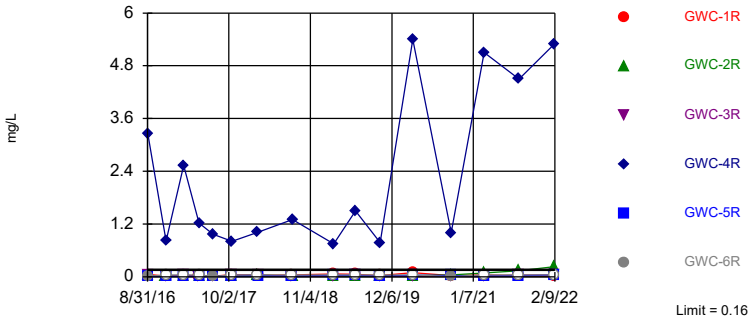
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	2/8/2022	0.021J	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/9/2022**	**0.23**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2022**	**5.3**	**Yes**	**331**	**n/a**	**n/a**	**48.04**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	2/9/2022	0.043	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	2/8/2022	0.04ND	No	331	n/a	n/a	48.04	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/8/2022**	**166**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/9/2022**	**46.6**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	2/8/2022	17.9	No	331	n/a	n/a	0.9063	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2022**	**66.5**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/9/2022**	**139**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**2/8/2022**	**61.5**	**Yes**	**331**	**n/a**	**n/a**	**0.9063**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	10.9	n/a	2/8/2022	5.6	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**10.9**	**n/a**	**2/9/2022**	**21.2**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	10.9	n/a	2/8/2022	4.5	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**10.9**	**n/a**	**2/8/2022**	**162**	**Yes**	**331**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	10.9	n/a	2/9/2022	2	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	10.9	n/a	2/8/2022	6.9	No	331	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-1R**	**160**	**n/a**	**2/8/2022**	**687**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/9/2022**	**241**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	2/8/2022	93.5	No	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	2/8/2022	146	No	331	n/a	n/a	6.042	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/9/2022**	**937**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**2/8/2022**	**260**	**Yes**	**331**	**n/a**	**n/a**	**6.042**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**218.4**	**n/a**	**2/8/2022**	**1310**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**218.4**	**n/a**	**2/9/2022**	**466**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-3R**	**218.4**	**n/a**	**2/8/2022**	**231**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-4R**	**218.4**	**n/a**	**2/8/2022**	**648**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**218.4**	**n/a**	**2/9/2022**	**1440**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**218.4**	**n/a**	**2/8/2022**	**549**	**Yes**	**331**	**10.06**	**2.585**	**0.6042**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 48.04% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

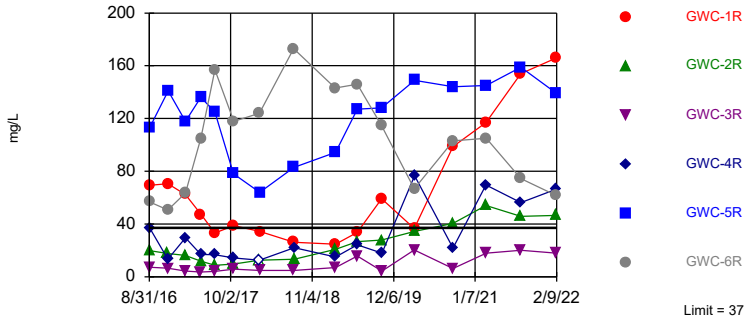
Constituent: Boron Analysis Run 4/27/2022 1:41 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 0.9063% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

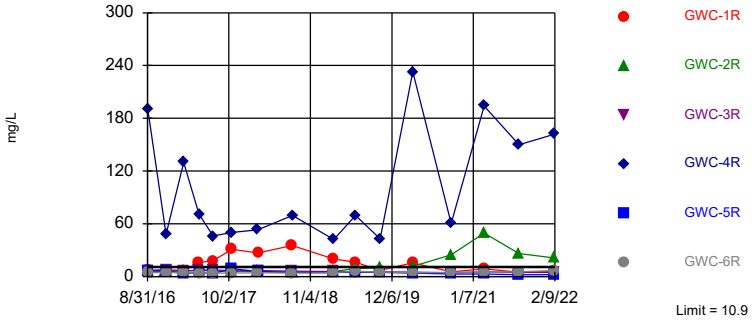
Constituent: Calcium Analysis Run 4/27/2022 1:41 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

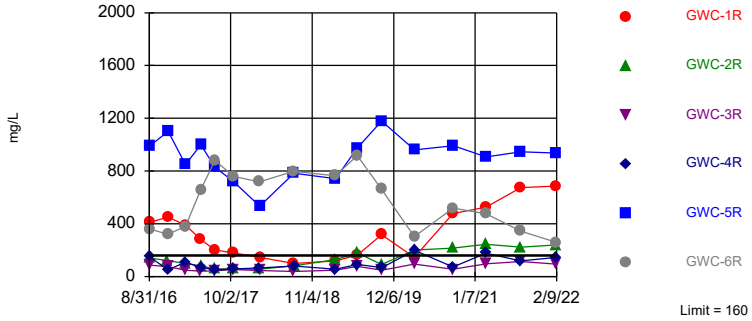
Constituent: Chloride Analysis Run 4/27/2022 1:41 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



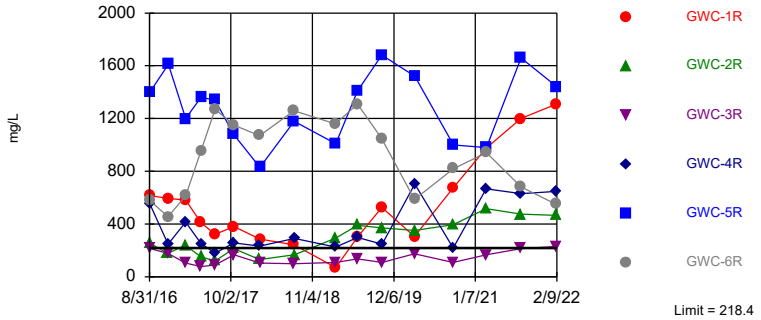
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 6.042% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 4/27/2022 1:41 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.06, Std. Dev.=2.585, n=331, 0.6042% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.86, critical = 14.07. Kappa = 1.823 (c=7, w=6, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 4/27/2022 1:41 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04		<0.04					<0.04	
7/26/2016		0.0055 (J)		0.0097 (J)	0.0052 (J)	0.0177 (J)	0.0047 (J)		<0.04
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				0.0071 (J)		<0.04		0.01 (J)
9/15/2016				0.0102 (J)		0.0214 (J)			
9/16/2016									
9/19/2016								<0.04	
11/1/2016	<0.04	0.0086 (J)		<0.04				<0.04	
11/2/2016					<0.04	<0.04	<0.04		
11/3/2016									
11/4/2016			<0.04						<0.04
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017						0.0198 (J)			
1/11/2017	<0.04	0.0074 (J)		<0.04					
1/12/2017					0.0076 (J)				<0.04
1/13/2017							<0.04		
1/16/2017			<0.04					<0.04	
2/21/2017								<0.04	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017		0.008 (J)	<0.04	0.0084 (J)					
3/3/2017									
3/6/2017							<0.04		
3/7/2017					0.0089 (J)				<0.04
3/8/2017						0.0189 (J)			
4/26/2017	<0.04			<0.04		0.0161 (J)		<0.04	
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017					0.0061 (J)		<0.04		
5/2/2017									<0.04
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		0.0079 (J)				<0.04
6/28/2017	<0.04			<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/29/2017							<0.04		
6/30/2017						0.0173 (J)		<0.04	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		0.0072 (J)	0.0071 (J)		0.0094 (J)				<0.04
10/4/2017	<0.04			<0.04				<0.04	
10/5/2017						0.0173 (J)	<0.04		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04		0.0098 (J)				
6/7/2018				0.004 (J)			0.0045 (J)		<0.04
6/8/2018	<0.04					0.013 (J)			
6/11/2018								0.014 (J)	
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.01 (J)		0.005 (J)		0.0057 (J)
10/1/2018	<0.04	0.021 (J)	0.0049 (J)	<0.04		0.015 (J)			
10/2/2018								<0.04	
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019						0.014 (J)			
4/1/2019	<0.04			<0.04				<0.04	
4/2/2019									
4/3/2019					0.0076 (J)		0.0055 (J)		0.0044 (J)
6/12/2019									
6/13/2019									
9/24/2019		0.0064 (J)	0.0055 (J)		0.01 (J)				0.0049 (J)
9/25/2019	<0.04			0.0054 (J)		0.018 (J)	<0.04	<0.04	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			0.0087 (J)			0.02 (J)			
3/19/2020	0.0053 (J)	0.0085 (J)		0.0073 (J)				0.0052 (J)	
3/24/2020					0.011 (J)				0.0068 (J)
3/25/2020							0.011 (J)		
9/22/2020					0.0079 (J)		<0.04		0.0053 (J)
9/23/2020	0.0073 (J)	<0.04	<0.04	0.012 (J)					
9/24/2020								0.0075 (J)	
9/25/2020						0.02 (J)			
3/1/2021								<0.04	
3/2/2021					0.0068 (J)	0.017 (J)			0.011 (J)
3/3/2021	<0.04	<0.04	<0.04	<0.04			0.0056 (J)		
3/4/2021									
8/18/2021									
8/19/2021		<0.04	<0.04	<0.04		0.018 (J)		<0.04	
8/20/2021									
8/26/2021					0.009 (J)		<0.04		<0.04
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04	0.01 (J)					
2/10/2022					0.011 (J)	0.02 (J)			<0.04
2/11/2022							<0.04	<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04		0.008 (J)	<0.04				
7/28/2016			<0.04						
8/30/2016						0.0166 (J)			
8/31/2016							0.0305 (J)	0.0315 (J)	0.0315 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)			0.0086 (J)					
9/19/2016		<0.04	<0.04		<0.04				
11/1/2016									
11/2/2016					<0.04				
11/3/2016	0.0082 (J)	<0.04	<0.04	0.0077 (J)					
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016							0.0206 (J)		0.0095 (J)
11/29/2016									
11/30/2016								0.0089 (J)	
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04		0.0092 (J)					
1/12/2017									
1/13/2017			<0.04		<0.04				
1/16/2017									
2/21/2017									
2/22/2017							0.0192 (J)		<0.04
2/23/2017								<0.04	
2/24/2017						0.0145 (J)			
3/1/2017	<0.04	<0.04							
3/2/2017				0.0095 (J)					
3/3/2017									
3/6/2017			<0.04		<0.04				
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.04	<0.04		<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.04					
5/8/2017						0.0141 (J)			0.0084 (J)
5/9/2017								0.0077 (J)	
5/10/2017							0.0179 (J)		
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/29/2017			<0.04	0.0074 (J)	<0.04				
6/30/2017									
7/11/2017						0.0131 (J)			
7/17/2017									0.0092 (J)
7/18/2017							0.0169 (J)	0.0073 (J)	
10/3/2017			<0.04						
10/4/2017	0.009 (J)			0.0077 (J)	<0.04				
10/5/2017		<0.04							
10/10/2017						0.0124 (J)			
10/11/2017									
10/12/2017									
10/16/2017									<0.04
10/17/2017							0.0168 (J)		
10/18/2017								<0.04	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									<0.04
2/20/2018							<0.04		
2/21/2018								0.0399 (J)	
4/2/2018						0.013 (J)			
4/3/2018									
6/5/2018			0.0092 (J)						
6/6/2018					0.0049 (J)				
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)			0.01 (J)					
6/28/2018									
8/6/2018									<0.04
8/7/2018								0.0049 (J)	
8/8/2018							0.017 (J)		
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0054 (J)	0.0096 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									<0.04
2/26/2019							0.017 (J)	0.0053 (J)	
3/26/2019									
3/27/2019						0.013 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.011 (J)	0.0066 (J)					
4/3/2019	0.0053 (J)	<0.04			<0.04				
6/12/2019							0.013 (J)		<0.04
6/13/2019								<0.04	
9/24/2019			0.018 (J)						
9/25/2019				0.0081 (J)	<0.04				
9/26/2019	0.0072 (J)	0.0062 (J)							
10/8/2019						0.012 (J)			<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
10/9/2019							0.018 (J)		
10/10/2019								0.0061 (J)	
3/17/2020						0.023 (J)		0.0099 (J)	0.0051 (J)
3/18/2020							0.026 (J)		
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	0.016 (J)	0.0092 (J)	<0.04				
3/25/2020									
9/22/2020						0.0076 (J)	0.046 (J)	0.0066 (J)	0.0079 (J)
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)					
9/24/2020			0.013 (J)		0.0094 (J)				
9/25/2020									
3/1/2021						0.013 (J)	0.087		
3/2/2021								0.0071 (J)	<0.04
3/3/2021	0.0094 (J)	<0.04		0.01 (J)	<0.04				
3/4/2021			0.0079 (J)						
8/18/2021							0.14	<0.04	
8/19/2021						0.011 (J)			
8/20/2021									<0.04
8/26/2021	<0.04								
8/27/2021		<0.04		0.011 (J)	<0.04				
9/1/2021			<0.04						
9/3/2021									
2/8/2022						0.015 (J)		<0.04	<0.04
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04		0.23		
2/10/2022									
2/11/2022									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	0.0553 (J)						
9/1/2016		0.0108 (J)	3.25	0.0191 (J)			
9/13/2016							
9/14/2016					<0.04		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					<0.04		
11/14/2016							
11/28/2016							
11/29/2016	0.0149 (J)	<0.04					
11/30/2016			0.813				
12/1/2016				0.0088 (J)			
12/15/2016					0.0107 (J)		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					<0.04		
2/21/2017							
2/22/2017							
2/23/2017	0.0082 (J)	<0.04					
2/24/2017			2.53	0.0067 (J)			
3/1/2017							
3/2/2017							
3/3/2017					<0.04		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					<0.04		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	0.0097 (J)						
5/10/2017		<0.04	1.22	0.0068 (J)			
5/26/2017					<0.04		
6/27/2017							
6/28/2017					<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017				0.0102 (J)			
7/18/2017	0.0123 (J)	0.0061 (J)	0.97				
10/3/2017					<0.04		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
10/16/2017				0.0066 (J)			
10/17/2017	0.0513		0.804				
10/18/2017		<0.04					
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018		<0.04					0.146
2/20/2018			1.01			<0.04	
2/21/2018	0.0378 (J)			0.0268 (J)			
4/2/2018							
4/3/2018						0.033 (J)	0.12
6/5/2018							
6/6/2018							
6/7/2018					<0.04		
6/8/2018							
6/11/2018							
6/28/2018						0.053	0.16
8/6/2018		<0.04					
8/7/2018	0.043			0.012 (J)		0.024 (J)	0.12
8/8/2018			1.3				
9/19/2018							
9/24/2018						0.028 (J)	0.099
9/25/2018							
9/26/2018							
10/1/2018					<0.04		
10/2/2018							
2/25/2019		<0.04					
2/26/2019	0.062		0.75	0.033 (J)			
3/26/2019							0.096
3/27/2019						0.017 (J)	
3/28/2019							
3/29/2019					0.0065 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019			1.5				
6/13/2019	0.057	<0.04		0.03 (J)			
9/24/2019					0.0076 (J)		
9/25/2019							
9/26/2019							
10/8/2019		<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.029 (J)			0.013 (J)		0.017 (J)	0.079
10/10/2019			0.78				
3/17/2020	0.092 (J)	<0.04					
3/18/2020			5.4	0.034 (J)			
3/19/2020					0.0073 (J)		
3/24/2020							0.088 (J)
3/25/2020						0.043 (J)	
9/22/2020	0.025 (J)		1				
9/23/2020		0.0055 (J)		0.028 (J)	<0.04		
9/24/2020						0.037 (J)	0.087 (J)
9/25/2020							
3/1/2021	0.046		5.1				
3/2/2021				0.023 (J)			
3/3/2021		<0.04			<0.04		
3/4/2021						0.033 (J)	0.078
8/18/2021	0.029 (J)	<0.04	4.5	0.021 (J)			
8/19/2021							
8/20/2021							
8/26/2021						0.095	
8/27/2021					<0.04		
9/1/2021							
9/3/2021							0.077
2/8/2022	0.021 (J)	<0.04	5.3			0.13	0.074
2/9/2022				0.043	<0.04		
2/10/2022							
2/11/2022							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/1/2016	21	12	2.5						
6/2/2016				28	33	1.3	8.8	1.3	2.4
6/6/2016									
6/7/2016									
7/25/2016	20.3		2.16					1.17	
7/26/2016		11		24.5	32.3	1.24	7.69		2.12
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7				31		8.49		2.18
9/15/2016				27		1.17			
9/16/2016									
9/19/2016								1.05	
11/1/2016	18.4	11		25.6				1.14	
11/2/2016					30.9	1.23	7.83		
11/3/2016									
11/4/2016			2.67						2.17 (J)
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017						1.24			
1/11/2017	20.3	11.2		27.5					
1/12/2017					35.7				2.37
1/13/2017							8.08		
1/16/2017			2.45					1.23	
2/21/2017								1.25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		11	2.57	27.5					
3/3/2017									
3/6/2017							8.64		
3/7/2017					32.7				2.34
3/8/2017						1.21			
4/26/2017	25.6			30.4		1.14		1.03	
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017					37		13.4		
5/2/2017									2.17
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36		36.5				2.13
6/28/2017	23.9			29.8					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/29/2017							8.81		
6/30/2017						1.24		1.13	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		14	2.21		30.9				2.15
10/4/2017	22.1			29.7				1.09	
10/5/2017						1.11	9.29		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3		26.2				
6/7/2018				29.1			8.2		2.3
6/8/2018	21.9 (J)					1.1			
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					25.8		9.5 (J)		2.3
10/1/2018	19.7	15.1	1.8	26.9		0.99			
10/2/2018								1.1	
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		13.3 (J)	2.2						
3/29/2019						1.1			
4/1/2019	20.4 (J)			30.1				1.3	
4/2/2019									
4/3/2019					24.7 (J)		8.4		2.8
6/12/2019									
6/13/2019									
9/24/2019		15.8	2.3		25.8				2.5
9/25/2019	22.4			29.5		1.1	9.5	1.1	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			2.1			1.1			
3/19/2020	21.9	15		31.5				1.2	
3/24/2020					26.1				2.5
3/25/2020							10.5		
9/22/2020					27.2		9.6		2.6
9/23/2020	23.6	14.1	1.8	28.6					
9/24/2020								1.1	
9/25/2020						1.3			
3/1/2021								1.2	
3/2/2021					1.6	1.2			2.6
3/3/2021	20.6	14.1	1.8	29.8			7.7		
3/4/2021									
8/18/2021									
8/19/2021		14.2	2	28.1		1.2		1.2	
8/20/2021									
8/26/2021					25.2		7.6		2.5
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	14.9	2.1	30.3					
2/10/2022					24.8	1.3			2.5
2/11/2022							7.5	1.5	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			3.7	2.2	2.3				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73		2	2.08				
7/28/2016			3.15						
8/30/2016						20.9			
8/31/2016							19.9	7.23	9.31
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5			1.97					
9/19/2016		4.76	3.17		1.97				
11/1/2016									
11/2/2016					2.13				
11/3/2016	1.31	5.25	3.4	1.99					
11/4/2016									
11/14/2016						18.6			
11/28/2016							17.7 (B)		9.47 (B)
11/29/2016									
11/30/2016								6.43 (B)	
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74		2.28					
1/12/2017									
1/13/2017			4.98		2.45				
1/16/2017									
2/21/2017									
2/22/2017							16.2		10.4
2/23/2017								4.25	
2/24/2017						16.1			
3/1/2017	1.26	5.37							
3/2/2017				2.15					
3/3/2017									
3/6/2017			6.28		2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	6.65		2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					
5/8/2017						14.6			14.2
5/9/2017								3.56	
5/10/2017							11.8		
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/29/2017			6.04	2.02	2.54				
6/30/2017									
7/11/2017						14.3			
7/17/2017									14.1
7/18/2017							8.69	4.16	
10/3/2017			8.28						
10/4/2017	1.1			2.03	2.25				
10/5/2017		5.28							
10/10/2017						12.1			
10/11/2017									
10/12/2017									
10/16/2017									13.6
10/17/2017							9.77		
10/18/2017								5.67	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									<25
2/20/2018							<25		
2/21/2018								4.76	
4/2/2018						<25			
4/3/2018									
6/5/2018			9.1						
6/6/2018					2.3				
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4			2.1					
6/28/2018									
8/6/2018									11.4 (J)
8/7/2018								4.7	
8/8/2018							13.4 (J)		
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	1	4.6	10.4 (J)	2.1	2.3				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									12.7 (J)
2/26/2019							20.9 (J)	7.1	
3/26/2019									
3/27/2019						10.8 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			8.8	2.5					
4/3/2019	1.2	5.3			2.9				
6/12/2019							26.6		18.9
6/13/2019								15.7	
9/24/2019			7.7						
9/25/2019				2.6	2.4				
9/26/2019	1.1	4.9							
10/8/2019						9.7			28.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
10/9/2019							27.8		
10/10/2019								4.3	
3/17/2020						14.8		20.3	24.3
3/18/2020							34.5		
3/19/2020									
3/24/2020	1	5.3	6	2.7	2.6				
3/25/2020									
9/22/2020						10.1	40.5	6.2	31
9/23/2020	0.91 (J)	5.2		2.6					
9/24/2020			7.8		2.6				
9/25/2020									
3/1/2021						10.3	54.1		
3/2/2021								17.9	34.2
3/3/2021	0.96 (J)	5.2		2.5	2.4				
3/4/2021			8.7						
8/18/2021							45.8	20.2	
8/19/2021						9.6			
8/20/2021									26.5
8/26/2021	0.98 (J)								
8/27/2021		5.1		2.7	2.4				
9/1/2021			9.5						
9/3/2021									
2/8/2022						9.4		17.9	25.6
2/9/2022	0.87 (J)	5.1	9.8	2.8	2.3		46.6		
2/10/2022									
2/11/2022									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	69.4						
9/1/2016		56.8	37.1	113			
9/13/2016							
9/14/2016					23.5		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					23.7		
11/14/2016							
11/28/2016							
11/29/2016	70.6 (B)	50.7 (B)					
11/30/2016			13.4 (B)				
12/1/2016				141 (B)			
12/15/2016					23.1		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					23.3		
2/21/2017							
2/22/2017							
2/23/2017	62.4	63.5					
2/24/2017			29.5	118			
3/1/2017							
3/2/2017							
3/3/2017					25.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					30.7		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	47.4						
5/10/2017		105	17	136			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017				125			
7/18/2017	33.2	157	16.8				
10/3/2017					26.7		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.74	
10/12/2017							2.9
10/16/2017				78.2			
10/17/2017	38.7		14.3				
10/18/2017		118					
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018		124					<25
2/20/2018			<25			1.71	
2/21/2018	34.3			64			
4/2/2018							
4/3/2018						1.4	6.3
6/5/2018							
6/6/2018							
6/7/2018					25		
6/8/2018							
6/11/2018							
6/28/2018						1.4	6.7
8/6/2018		173					
8/7/2018	26.2			83		1.2	6.3
8/8/2018			22.1 (J)				
9/19/2018							
9/24/2018						1.1	5.7
9/25/2018							
9/26/2018							
10/1/2018					25		
10/2/2018							
2/25/2019		143					
2/26/2019	24.7 (J)		15.1 (J)	94.4			
3/26/2019							5.6
3/27/2019						1.5	
3/28/2019							
3/29/2019					23.5 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019			24.2				
6/13/2019	33.8	146		127			
9/24/2019					26.4		
9/25/2019							
9/26/2019							
10/8/2019		115					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	59.1			128		2.4	4.9
10/10/2019			18				
3/17/2020	36.7	66.8					
3/18/2020			76.6	149			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	98.8		21.8				
9/23/2020		103		144	26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	117		69.5				
3/2/2021				145			
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	154	74.5	56.2	159			
8/19/2021							
8/20/2021							
8/26/2021						14.1	
8/27/2021					22.6		
9/1/2021							
9/3/2021							5.6
2/8/2022	166	61.5	66.5			15.2	6
2/9/2022				139	23.4		
2/10/2022							
2/11/2022							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				1.4	7.2	4.1	3.7	1.9	4.3
6/6/2016									
6/7/2016									
7/25/2016	1.3		1.4					1.7	
7/26/2016		1.2		1.6	6.6	4	3.6		4.4
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3				6.6		3.4		3.8
9/15/2016				1.5		4.2			
9/16/2016									
9/19/2016								1.6	
11/1/2016	1.4	1.3		1.7				1.8	
11/2/2016					7.6	4.9	4.5		
11/3/2016									
11/4/2016			1.6						4.8
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017						4.1			
1/11/2017	1.1	1.1		1.2					
1/12/2017					6.8				3.8
1/13/2017							4.2		
1/16/2017			1.4					1.7	
2/21/2017								1.7	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1	1.3	1.2					
3/3/2017									
3/6/2017							3.6		
3/7/2017					6.8				4.5
3/8/2017						4.2			
4/26/2017	1.1			1.2		4.1		1.7	
4/27/2017		1	1.3						
4/28/2017									
5/1/2017					7.2		4.3		
5/2/2017									4.6
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4		7				4.3
6/28/2017	1.2			1.3					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/29/2017							4.2		
6/30/2017						3.7		1.8	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		1.1	1.7		6.5				4.2
10/4/2017	1.2			1.5				1.8	
10/5/2017						3.8	4.7		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
6/6/2018			1.4		4.7				
6/7/2018				1.2			4.4		4.5
6/8/2018	1.2					3.4			
6/11/2018								2	
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8		4.8		5.1
10/1/2018	1.2	1.1	1.4	1.5		3.8			
10/2/2018								1.8	
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.4	1.5						
3/29/2019						4.2			
4/1/2019	1.1			1.2				1.7	
4/2/2019									
4/3/2019					4		4.3		4.2
6/12/2019									
6/13/2019									
9/24/2019		1.1	1.3		3.7				4.5
9/25/2019	1.1			1.1		4.8	4.5	1.6	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			1.4			5.2			
3/19/2020	1.1	1.1		1.2				1.8	
3/24/2020					3.5				4.3
3/25/2020							3.9		
9/22/2020					3.6		4.5		4.2
9/23/2020	1	0.99 (J)	1.2	1.1					
9/24/2020								1.5	
9/25/2020						5.3			
3/1/2021								1.6	
3/2/2021					3.2	4.9			4.3
3/3/2021	0.99 (J)	0.96 (J)	1.2	1.1			4.1		
3/4/2021									
8/18/2021									
8/19/2021		1.1	1.3	1.1		5		1.6	
8/20/2021									
8/26/2021					3.4		4.4		4.3
8/27/2021	1.1								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.1	1	1.3	1.1					
2/10/2022					3.2	4.7			4.4
2/11/2022							4.1	2.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			2.8	4.5	1.9				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7		4.5	1.9				
7/28/2016			2.6						
8/30/2016						5.2			
8/31/2016							6.3	6.7	4
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1			4.5					
9/19/2016		7	2.4		1.9				
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	2.9	5.4					
11/4/2016									
11/14/2016						6.4			
11/28/2016							6.7		4.2
11/29/2016									
11/30/2016								7.8	
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5		4.7					
1/12/2017									
1/13/2017			2.5		2.3				
1/16/2017									
2/21/2017									
2/22/2017							5.7		3.7
2/23/2017								6.5	
2/24/2017						5.5			
3/1/2017	6	6.9							
3/2/2017				4.8					
3/3/2017									
3/6/2017			2.1		1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2.1		2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					
5/8/2017						5.8			4.2
5/9/2017								7.2	
5/10/2017							7.1		
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/29/2017			2.8	4.5	2.6				
6/30/2017									
7/11/2017						5.8			
7/17/2017									3.8
7/18/2017							6	7.7	
10/3/2017			2.2						
10/4/2017	6.8			4.7	2.6				
10/5/2017		7							
10/10/2017						5.9			
10/11/2017									
10/12/2017									
10/16/2017									4.2
10/17/2017							6.1		
10/18/2017								6.5	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									4.3
2/20/2018							5.8		
2/21/2018								6.7	
4/2/2018						4.8			
4/3/2018									
6/5/2018			1.7						
6/6/2018					2.7				
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8			4.9					
6/28/2018									
8/6/2018									3.8
8/7/2018								6.3	
8/8/2018							4.7		
9/19/2018						4			
9/24/2018									
9/25/2018	7.8	7.9	2.2	5.6	3.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									4.1
2/26/2019							5.7	5.7	
3/26/2019									
3/27/2019						4.3			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5	4.8					
4/3/2019	6.3	6.9			3.1				
6/12/2019							9.1		4.7
6/13/2019								5	
9/24/2019			3.1						
9/25/2019				5.7	2.8				
9/26/2019	7.1	7							
10/8/2019						4.4			5.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
10/9/2019							9.8		
10/10/2019								5.3	
3/17/2020						4.1		5.2	4.8
3/18/2020							11.7		
3/19/2020									
3/24/2020	6.8	7	2.8	5	2.7				
3/25/2020									
9/22/2020						4.2	24.7	4.2	4.2
9/23/2020	7.2	7.2		6.6					
9/24/2020			2		2.7				
9/25/2020									
3/1/2021						3.7	49.6		
3/2/2021								5.5	4.1
3/3/2021	7.2	7		7.1	2.7				
3/4/2021			1.8						
8/18/2021							26.2	4.6	
8/19/2021						3.5			
8/20/2021									5.2
8/26/2021	7.3								
8/27/2021		7.4		8.5	2.8				
9/1/2021			1.8						
9/3/2021									
2/8/2022						3.2		4.5	5.7
2/9/2022	7	7.5	1.7	10.9	2.8		21.2		
2/10/2022									
2/11/2022									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	7.6						
9/1/2016		4.4	190	6.6			
9/13/2016							
9/14/2016					1.1		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					1.4		
11/14/2016							
11/28/2016							
11/29/2016	5.8	4.8					
11/30/2016			48				
12/1/2016				6			
12/15/2016					2.9		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					0.98		
2/21/2017							
2/22/2017							
2/23/2017	6.2	4.4					
2/24/2017			130	3.4			
3/1/2017							
3/2/2017							
3/3/2017					1.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					0.91		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	16						
5/10/2017		3.9	71	4.5			
5/26/2017					0.93		
6/27/2017							
6/28/2017					1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017				3.2			
7/18/2017	18	4	46				
10/3/2017					1.2		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.4	
10/12/2017							3.8
10/16/2017				9			
10/17/2017	31		50				
10/18/2017		4.1					
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018		4.4					4.6
2/20/2018			53.1			2	
2/21/2018	27			5.6			
4/2/2018							
4/3/2018						3.3	5.9
6/5/2018							
6/6/2018							
6/7/2018					1		
6/8/2018							
6/11/2018							
6/28/2018						2.1	5
8/6/2018		3.9					
8/7/2018	35.4			4.7		1.2	4.3
8/8/2018			69.3				
9/19/2018							
9/24/2018						1.3	4.9
9/25/2018							
9/26/2018							
10/1/2018					1.1		
10/2/2018							
2/25/2019		4.4					
2/26/2019	20		42.2	4.2			
3/26/2019							4.4
3/27/2019						1.4	
3/28/2019							
3/29/2019					1.2		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019			69.5				
6/13/2019	16.4	6.2		5.5			
9/24/2019					0.95 (J)		
9/25/2019							
9/26/2019							
10/8/2019		4.9					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	6.9			4.5		2.1	5.1
10/10/2019			42.8				
3/17/2020	15.5	4.4					
3/18/2020			233	3.8			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	5.5		60.2				
9/23/2020		4.7		3	0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	8.6		194				
3/2/2021				2.9			
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	5.2	5.4	150	2.3			
8/19/2021							
8/20/2021							
8/26/2021						7.2	
8/27/2021					0.99 (J)		
9/1/2021							
9/3/2021							5.5
2/8/2022	5.6	6.9	162			7.4	6.2
2/9/2022				2	1 (J)		
2/10/2022							
2/11/2022							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/1/2016	12	5	4.2						
6/2/2016				5.8	20	6.6	8	1.3	1.9
6/6/2016									
6/7/2016									
7/25/2016	8.4		3.7					1.2	
7/26/2016		5.4		6.7	20	6.1	7.7		1.8
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6				19		7.5		1.8
9/15/2016				6		6.1			
9/16/2016									
9/19/2016								1.2	
11/1/2016	8.9	3.9		4.9				1.3	
11/2/2016					20	6.3	8.2		
11/3/2016									
11/4/2016			5						2
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017						5.9			
1/11/2017	8.6	3.7		4.5					
1/12/2017					19				1.9
1/13/2017							8.1		
1/16/2017			7.9					<1	
2/21/2017								1.4	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4	4.4					
3/3/2017									
3/6/2017							8		
3/7/2017					20				2.1
3/8/2017						7			
4/26/2017	11			5.1		7		1.4	
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017					20		8.4		
5/2/2017									2
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4		18				2.1
6/28/2017	12			5.4					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:42 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/29/2017							9.2		
6/30/2017						6.5		<1	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		6.6	5.9		16				2.3
10/4/2017	12			6.2				1.4	
10/5/2017						7.9	9.6		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		6.4							
6/6/2018			4.4		8.3				
6/7/2018				6.7			8.5		2
6/8/2018	9.6					6.4			
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					7.9		10.2		2.3
10/1/2018	9.1	5.6	4	7.1		6.8			
10/2/2018								1	
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		8	4.3						
3/29/2019						7.3			
4/1/2019	8.5			7.2				0.96 (J)	
4/2/2019									
4/3/2019					7		8.5		2.1
6/12/2019									
6/13/2019									
9/24/2019		5.3	4.3		5.5				2.4
9/25/2019	13.8			7		6.6	8.5	0.81 (J)	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			5.3			8.1			
3/19/2020	12.9	10		9				1.6	
3/24/2020					5.9				2.1
3/25/2020							8.8		
9/22/2020					5.5		8.2		2.1
9/23/2020	16.8	8.1	3.4	6.9					
9/24/2020								0.69 (J)	
9/25/2020						6.1			
3/1/2021								0.88 (J)	
3/2/2021					2.6	6			2.3
3/3/2021	9.6	9	4.4	7			7.8		
3/4/2021									
8/18/2021									
8/19/2021		8.9	4.9	7.5		6.7		1	
8/20/2021									
8/26/2021					6		8.5		2.4
8/27/2021	18.2								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	16	9.3	5.1	7.2					
2/10/2022					4.9	6.2			2.4
2/11/2022							7.7	2.8	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			5.2	4.4	<1				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7		4.7	0.08 (J)				
7/28/2016			5.1						
8/30/2016						160			
8/31/2016							140	87	29
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7			4.8					
9/19/2016		1.8	4.8		0.08 (J)				
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5	5.3					
11/4/2016									
11/14/2016						150			
11/28/2016							120		36
11/29/2016									
11/30/2016								76	
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1		5.2					
1/12/2017									
1/13/2017			4.3		<1				
1/16/2017									
2/21/2017									
2/22/2017							100		43
2/23/2017								47	
2/24/2017						120			
3/1/2017	<1	1.8							
3/2/2017				5					
3/3/2017									
3/6/2017			4.5		<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	4.9		<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					
5/8/2017						120			60
5/9/2017								41	
5/10/2017							80		
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/29/2017			5.5	5.2	<1				
6/30/2017									
7/11/2017						110			
7/17/2017									63
7/18/2017							57	44	
10/3/2017			5.8						
10/4/2017	1.7			5.3	<1				
10/5/2017		1.6							
10/10/2017						93			
10/11/2017									
10/12/2017									
10/16/2017									62
10/17/2017							59		
10/18/2017								53	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									64.6
2/20/2018							55.9		
2/21/2018								46.7	
4/2/2018						88.8			
4/3/2018									
6/5/2018			6.1						
6/6/2018					0.049 (J)				
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)			5.2					
6/28/2018									
8/6/2018									42.1
8/7/2018								38.8	
8/8/2018							81.1		
9/19/2018						75			
9/24/2018									
9/25/2018	1.5	1	7	6.1	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									42.1
2/26/2019							129	49.3	
3/26/2019									
3/27/2019						65.9			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			3.8	5.1					
4/3/2019	1.3	0.82 (J)			0.12 (J)				
6/12/2019							180		83.4
6/13/2019								77.1	
9/24/2019			1						
9/25/2019				5.5	<1				
9/26/2019	1	0.64 (J)							
10/8/2019						52.3			128

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
10/9/2019							91.2		
10/10/2019								48	
3/17/2020						71.6		95.2	98.6
3/18/2020							200		
3/19/2020									
3/24/2020	0.99 (J)	<1	3	5.4	<1				
3/25/2020									
9/22/2020						51.5	216	55.1	145
9/23/2020	1.1	0.53 (J)		5.1					
9/24/2020			3.6		<1				
9/25/2020									
3/1/2021						51.6	244		
3/2/2021								95.5	156
3/3/2021	1	<1		5.2	<1				
3/4/2021			4.5						
8/18/2021							223	114	
8/19/2021						52.6			
8/20/2021									121
8/26/2021	1.2								
8/27/2021		0.59 (J)		5.3	<1				
9/1/2021			5						
9/3/2021									
2/8/2022						50.9		93.5	107
2/9/2022	1.1	0.51 (J)	3.9	4.8	<1		241		
2/10/2022									
2/11/2022									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	410						
9/1/2016		360	150	990			
9/13/2016							
9/14/2016					9.4		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					13		
11/14/2016							
11/28/2016							
11/29/2016	450	320					
11/30/2016			50				
12/1/2016				1100			
12/15/2016					1.8		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					11		
2/21/2017							
2/22/2017							
2/23/2017	390	380					
2/24/2017			110	850			
3/1/2017							
3/2/2017							
3/3/2017					8.8		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					10		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	280						
5/10/2017		660	70	1000			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017				830			
7/18/2017	200	880	50				
10/3/2017					7.9		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						20	
10/12/2017							17
10/16/2017				720			
10/17/2017	180		58				
10/18/2017		760					
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018		718					57.2
2/20/2018			64.6			20.6	
2/21/2018	146			533			
4/2/2018							
4/3/2018						24.5	49.4
6/5/2018							
6/6/2018							
6/7/2018					8.8		
6/8/2018							
6/11/2018							
6/28/2018						22	43.8
8/6/2018		797					
8/7/2018	100			784		20.7	40.5
8/8/2018			79.5				
9/19/2018							
9/24/2018						21.2	39.7
9/25/2018							
9/26/2018							
10/1/2018					9.1		
10/2/2018							
2/25/2019		763					
2/26/2019	118		55.8	742			
3/26/2019							34.3
3/27/2019						17.7	
3/28/2019							
3/29/2019					9		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019			92.8				
6/13/2019	163	918		976			
9/24/2019					9.1		
9/25/2019							
9/26/2019							
10/8/2019		664					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	318			1180		15	27.9
10/10/2019			68.7				
3/17/2020	145	303					
3/18/2020			199	960			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	478		72.1				
9/23/2020		518		992	11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	525		177				
3/2/2021				906			
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	675	345	118	946			
8/19/2021							
8/20/2021							
8/26/2021						19.2	
8/27/2021					16.7		
9/1/2021							
9/3/2021							21.3
2/8/2022	687	260	146			14.6	17.9
2/9/2022				937	18		
2/10/2022							
2/11/2022							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/1/2016	150	120	54						
6/2/2016				130	160	46	96	36	66
6/6/2016									
6/7/2016									
7/25/2016	135		48					50	
7/26/2016		94		141	177	54	92		78
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		105	67						
9/14/2016	127				187		102		73
9/15/2016				153		54			
9/16/2016									
9/19/2016								35	
11/1/2016	75	44		92				<25	
11/2/2016					181	71	115		
11/3/2016									
11/4/2016			60						75
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017						45			
1/11/2017	148	107		159					
1/12/2017					202				86
1/13/2017							67		
1/16/2017			65					47	
2/21/2017								<25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		98	61	117					
3/3/2017									
3/6/2017							159		
3/7/2017					257				108
3/8/2017						178			
4/26/2017	92			181		52		55	
4/27/2017		116	31						
4/28/2017									
5/1/2017					165		107		
5/2/2017									103
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		89	42		189				73
6/28/2017	126			169					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/29/2017							79		
6/30/2017						45		42	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		119	58		170				89
10/4/2017	147			141				31	
10/5/2017						40	95		
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018			96		151				
6/7/2018				95			90		142
6/8/2018	158					114			
6/11/2018								59	
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					144		116		86
10/1/2018	138	117	60	165		50			
10/2/2018								57	
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019						63			
4/1/2019	19 (J)			149				54	
4/2/2019									
4/3/2019					142		111		83
6/12/2019									
6/13/2019									
9/24/2019		124	54		129				79
9/25/2019	159			157		64	117	51	
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			35			57			
3/19/2020	148	116		146				47	
3/24/2020					139				68
3/25/2020							146		
9/22/2020					104		83		75
9/23/2020	155	108	15	157					
9/24/2020								51	
9/25/2020						54			
3/1/2021								23	
3/2/2021					52	67			67
3/3/2021	111	99	39	137			80		
3/4/2021									
8/18/2021									
8/19/2021		105	44	144		54		50	
8/20/2021									
8/26/2021					123		93		86
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	105	57	154					
2/10/2022					127	56			77
2/11/2022							102	66	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			60	28	38				
7/25/2016									
7/26/2016									
7/27/2016	35	94		74	74				
7/28/2016			81						
8/30/2016						319			
8/31/2016							257	216	209
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35			67					
9/19/2016		92	68		45				
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	61	41					
11/4/2016									
11/14/2016						280			
11/28/2016							177		102
11/29/2016									
11/30/2016								177 (B)	
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133		104					
1/12/2017									
1/13/2017			76		46				
1/16/2017									
2/21/2017									
2/22/2017							240		164
2/23/2017								105	
2/24/2017						162			
3/1/2017	79	119							
3/2/2017				77					
3/3/2017									
3/6/2017			167		164				
3/7/2017									
3/8/2017									
4/26/2017	36	162	50		34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					
5/8/2017						194			145
5/9/2017								77	
5/10/2017							149		
5/26/2017									
6/27/2017									
6/28/2017	45	98							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
6/29/2017			94	53	68				
6/30/2017									
7/11/2017						193			
7/17/2017									185
7/18/2017							122	89	
10/3/2017			149						
10/4/2017	45			61	54				
10/5/2017		104							
10/10/2017						175			
10/11/2017									
10/12/2017									
10/16/2017									218
10/17/2017							214		
10/18/2017								166	
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									173
2/20/2018							131		
2/21/2018								105	
4/2/2018						192			
4/3/2018									
6/5/2018			109						
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74			70					
6/28/2018									
8/6/2018									158
8/7/2018								99	
8/8/2018							166		
9/19/2018						186			
9/24/2018									
9/25/2018	63	109	122	86	73				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019									92
2/26/2019							293	109	
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			134	72					
4/3/2019	63	89			57				
6/12/2019							391		226
6/13/2019								136	
9/24/2019			157						
9/25/2019				81	75				
9/26/2019	72	126							
10/8/2019						172			276

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWC-3R	GWA-2 (bg)
10/9/2019							372		
10/10/2019								109	
3/17/2020						165		175	185
3/18/2020							351		
3/19/2020									
3/24/2020	59	91	117	71	76				
3/25/2020									
9/22/2020						141	394	110	281
9/23/2020	81	103		99					
9/24/2020			113		69				
9/25/2020									
3/1/2021						145	516		
3/2/2021								167	296 (D)
3/3/2021	37	95		57	53				
3/4/2021			110						
8/18/2021							474	214	
8/19/2021						134			
8/20/2021									254
8/26/2021	31								
8/27/2021		112		93	67				
9/1/2021			137						
9/3/2021									
2/8/2022						151		231	283
2/9/2022	60	103	131	81	72		466		
2/10/2022									
2/11/2022									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	616						
9/1/2016		578	553	1400			
9/13/2016							
9/14/2016					152		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					148		
11/14/2016							
11/28/2016							
11/29/2016	594	455					
11/30/2016			247 (B)				
12/1/2016				1610 (B)			
12/15/2016					191		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					180		
2/21/2017							
2/22/2017							
2/23/2017	581	614					
2/24/2017			414	1200			
3/1/2017							
3/2/2017							
3/3/2017					156		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					130		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	410						
5/10/2017		955	251	1360			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017				1340			
7/18/2017	322	1270	179				
10/3/2017					153		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						68	
10/12/2017							74
10/16/2017				1080			
10/17/2017	381		256				
10/18/2017		1150					
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018		1070					119
2/20/2018			233			87	
2/21/2018	285			830			
4/2/2018							
4/3/2018						85	106
6/5/2018							
6/6/2018							
6/7/2018					146		
6/8/2018							
6/11/2018							
6/28/2018						88	112
8/6/2018		1260					
8/7/2018	242			1180		89	103
8/8/2018			292				
9/19/2018							
9/24/2018						82	107
9/25/2018							
9/26/2018							
10/1/2018					155		
10/2/2018							
2/25/2019		1160					
2/26/2019	69		226	1010			
3/26/2019							90
3/27/2019						75	
3/28/2019							
3/29/2019					150		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019			298				
6/13/2019	301	1310		1410			
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/27/2022 1:43 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	526			1680		119	98
10/10/2019			247				
3/17/2020	306	588					
3/18/2020			703	1520			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	675		217				
9/23/2020		820		1000	161		
9/24/2020						170	77
9/25/2020							
3/1/2021	974		666				
3/2/2021				980			
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	1200	682	630	1660			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88
2/8/2022	1310	549	648			248	93
2/9/2022				1440	156		
2/10/2022							
2/11/2022							

FIGURE J.

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.541	76	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	2.487	59	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5046	109	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1624	93	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.05275	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.03927	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4996	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.8339	-113	-68	Yes	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0.0004358	94	81	Yes	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	59.55	68	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.007065	39	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2505	26	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01631**	**-64**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.816**	**78**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWC-2R**	**7.541**	**76**	**58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.176	40	58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	5.948	48	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	0.4319	1	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1305**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07569**	**-96**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.7001**	**77**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.0958**	**-81**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**1.174**	**97**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.677**	**-83**	**-53**	**Yes**	**15**	**6.667**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.819**	**-87**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2307	58	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GWC-2R**	**2.487**	**59**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	5.458	20	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1623	47	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5046**	**109**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.0841	61	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.1771	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.01968	-51	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02497	-49	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1624**	**93**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1442	-57	-68	No	18	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-2I (bg)	-0.03702	-46	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-15	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6239	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05275**	**-85**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.03927**	**-78**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-40 (bg)	0.2865	51	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4996**	**-72**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08324	35	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8339**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	1	68	No	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	199	No	37	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	7	131	No	28	46.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0.0004358**	**94**	**81**	**Yes**	**20**	**70**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	2	63	No	17	94.12	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.000656	-47	-63	No	17	35.29	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	17	38	No	12	83.33	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	3	87	No	21	90.48	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	18	87	No	21	95.24	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**18.82**	**81**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	25.57	16	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	27.28	58	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-6.748	-4	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-24.66	-16	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.04468	14	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1558**	**-69**	**-68**	**Yes**	**18**	**22.22**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**103**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1386	-20	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.7686	44	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03944	-14	-68	No	18	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.833**	**-59**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4345**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.183**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-9.797**	**-77**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-19.14**	**-92**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.238**	**-119**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0955**	**100**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GWA-2 (bg)**	**24.56**	**61**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-1R	71.39	18	58	No	16	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

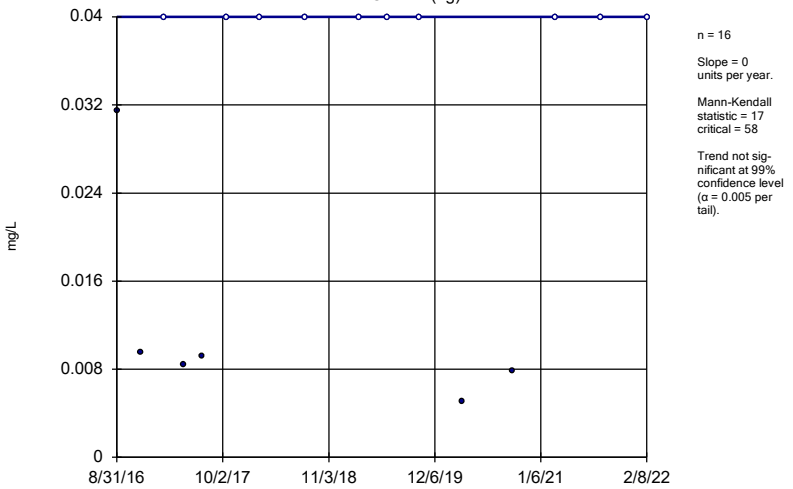
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2022, 8:38 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	**GWC-2R**	**59.55**	**68**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-3R	10.09	38	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	25.27	23	58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-8.549	-2	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-6.909	-4	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.8555	20	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	4.594	38	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-15	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4481	12	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.2702	7	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.568	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.147	36	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	12.83	63	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.032	-29	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.779	37	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	28.42	53	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.473	15	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.513	13	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-40 (bg)**	**-13.89**	**-55**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWA-47 (bg)**	**-13.78**	**-75**	**-53**	**Yes**	**15**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.5267	6	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-15.08**	**-97**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	-4	-68	No	18	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 58

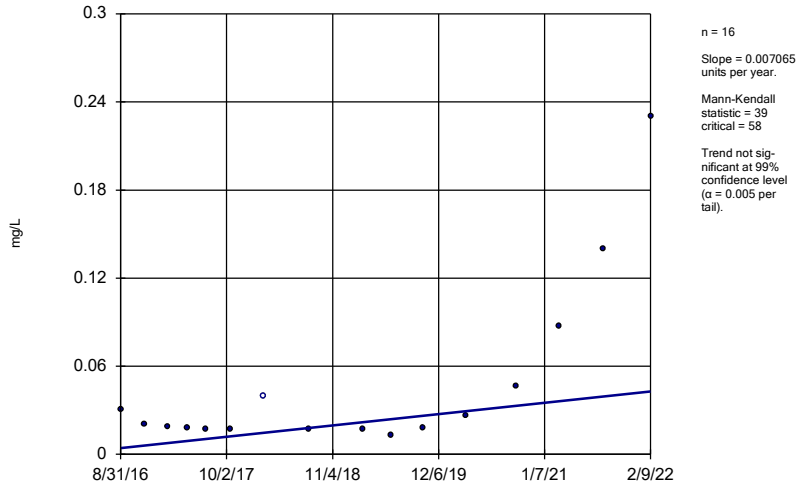
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 16

Slope = 0.007065 units per year.

Mann-Kendall statistic = 39
critical = 58

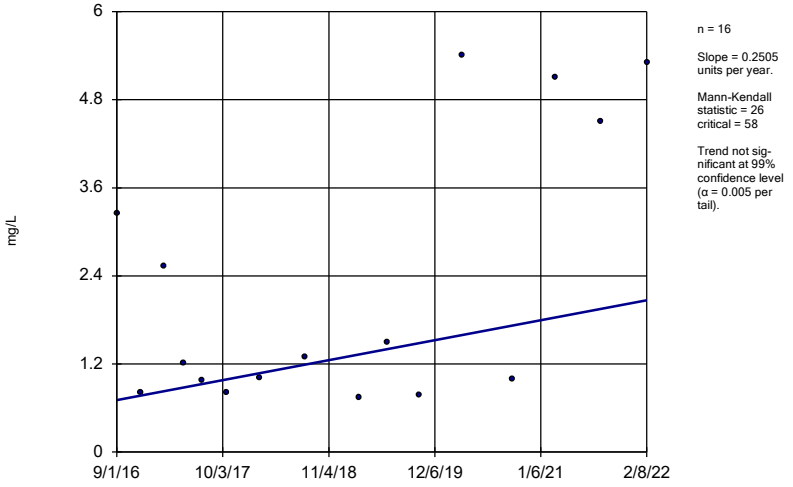
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 16

Slope = 0.2505 units per year.

Mann-Kendall statistic = 26
critical = 58

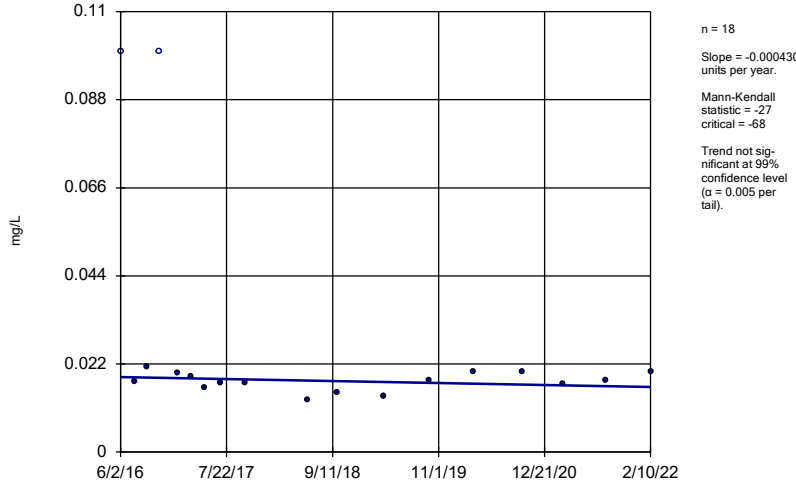
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.0004307 units per year.

Mann-Kendall statistic = -27
critical = -68

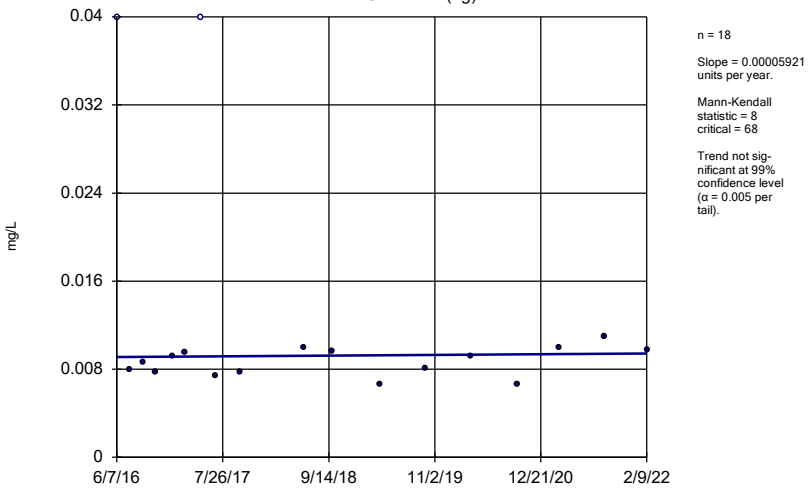
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.00005921 units per year.

Mann-Kendall statistic = 8
critical = 68

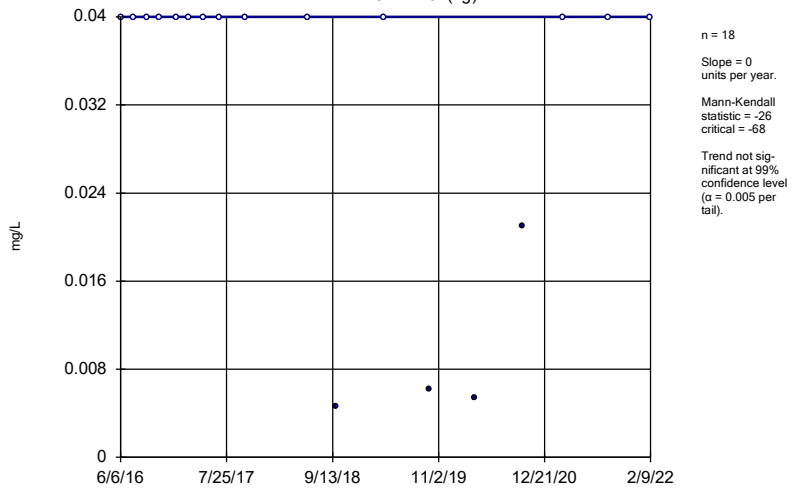
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -26
critical = -68

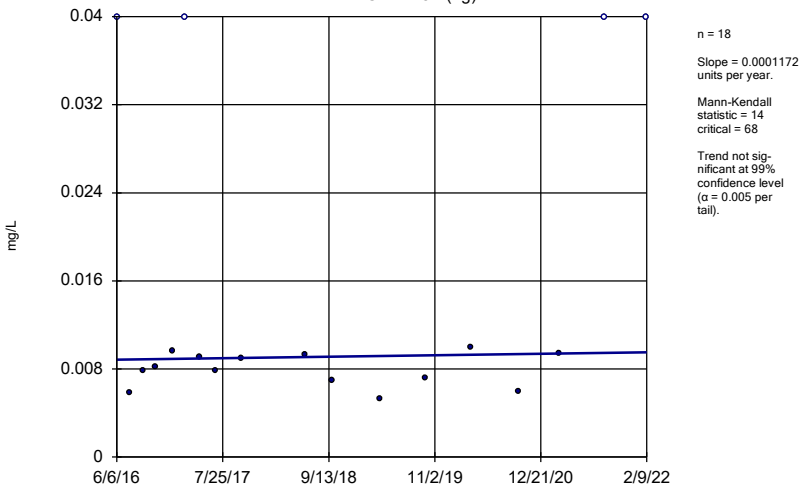
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.0001172 units per year.

Mann-Kendall statistic = 14
critical = 68

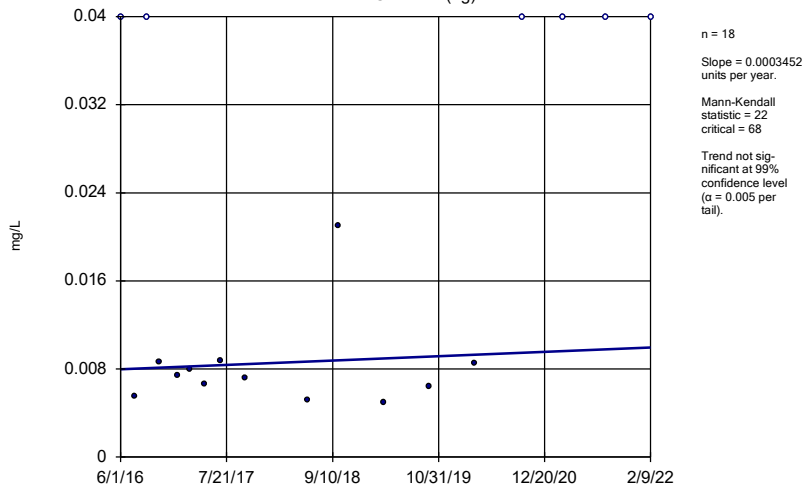
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.0003452 units per year.

Mann-Kendall statistic = 22
critical = 68

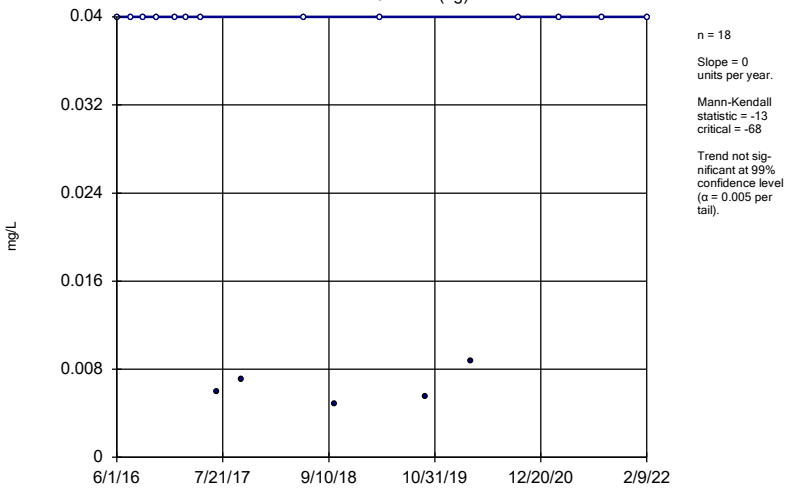
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -68

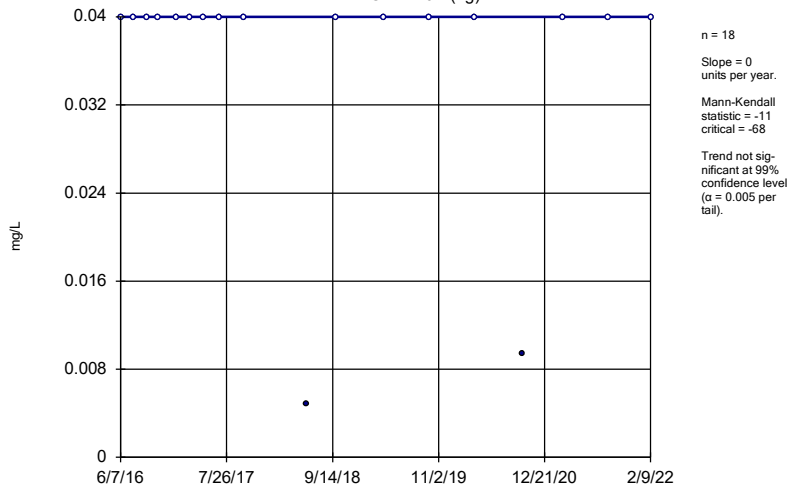
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -68

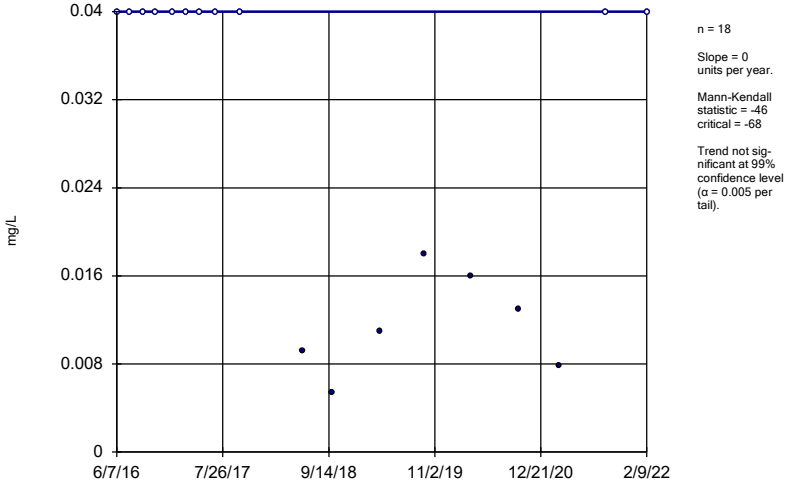
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -46
critical = -68

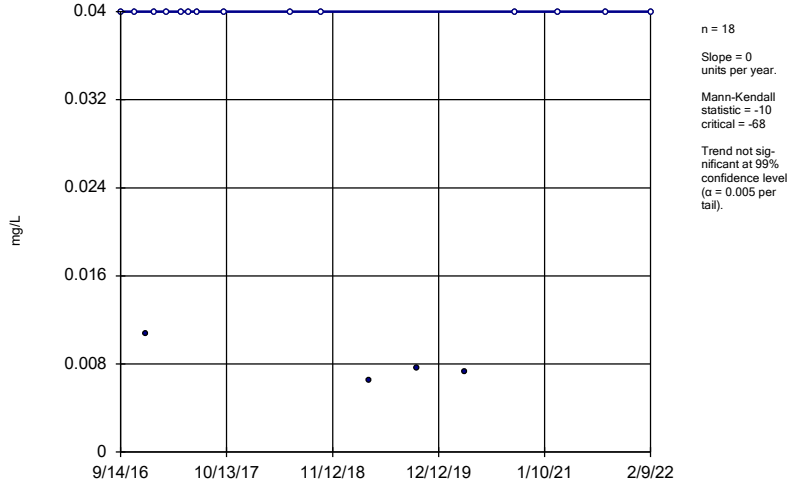
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -68

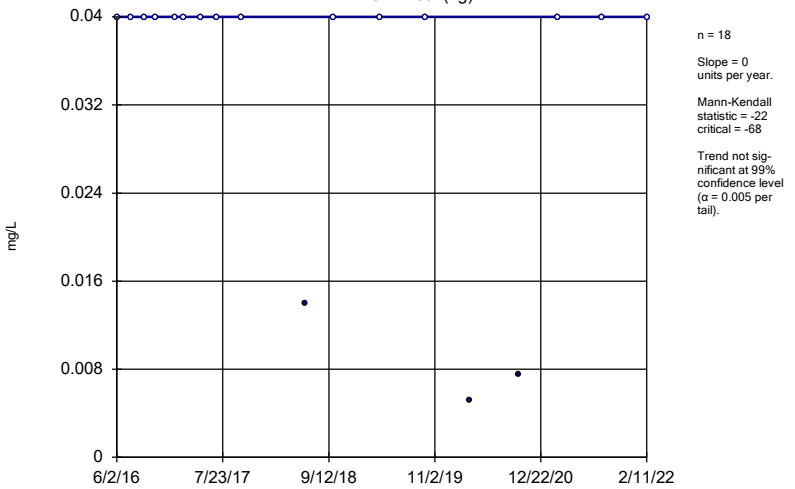
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -22 critical = -68

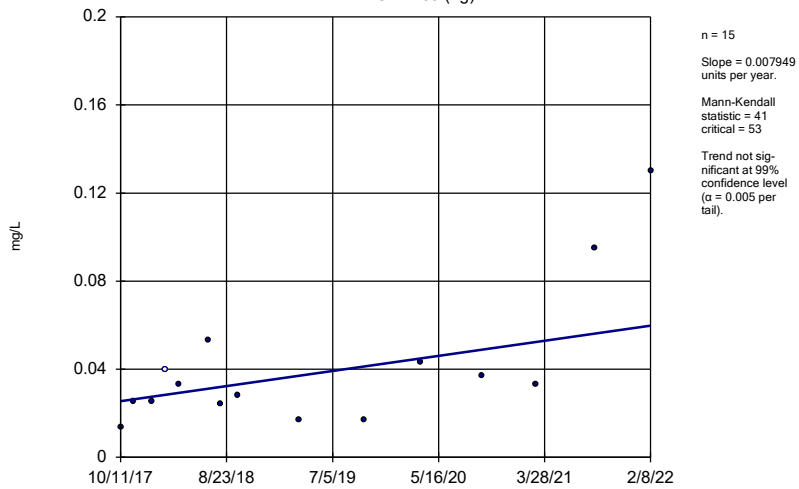
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.007949 units per year.

Mann-Kendall statistic = 41 critical = 53

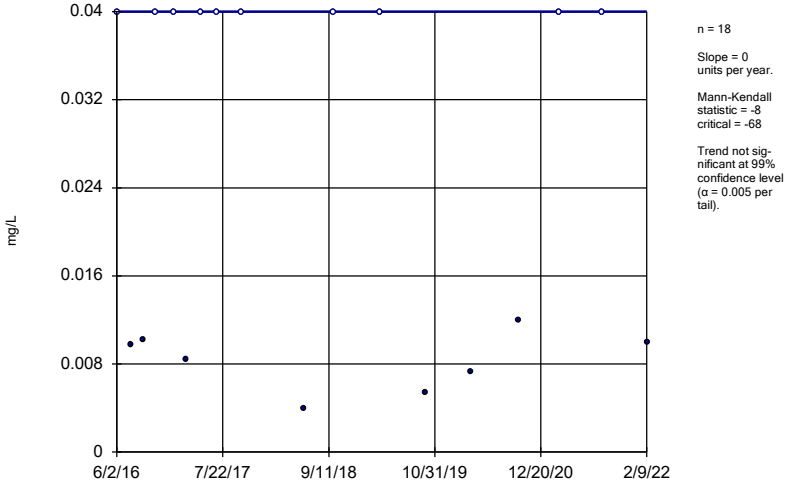
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -8 critical = -68

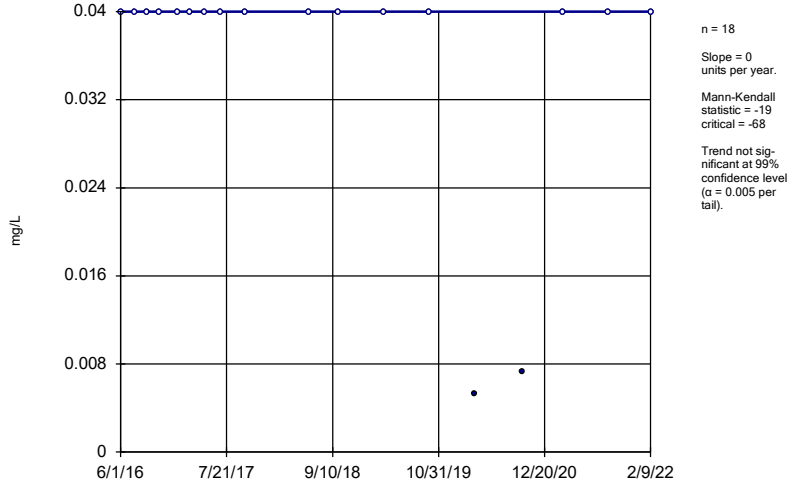
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -19 critical = -68

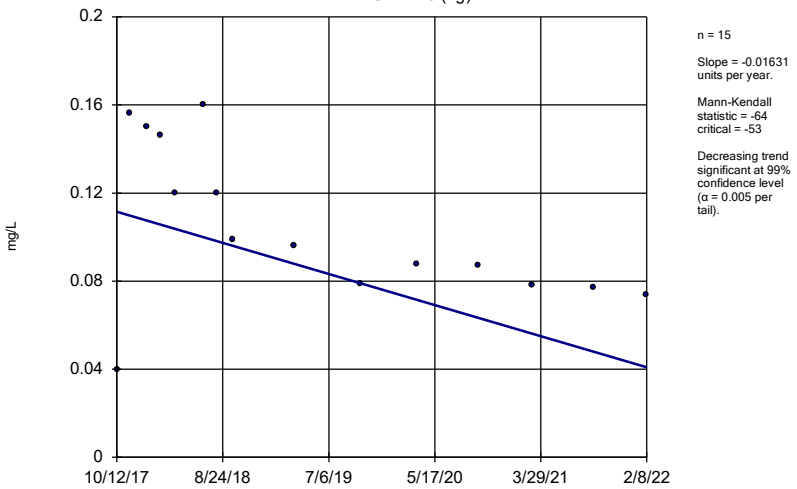
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.01631 units per year.

Mann-Kendall statistic = -64
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

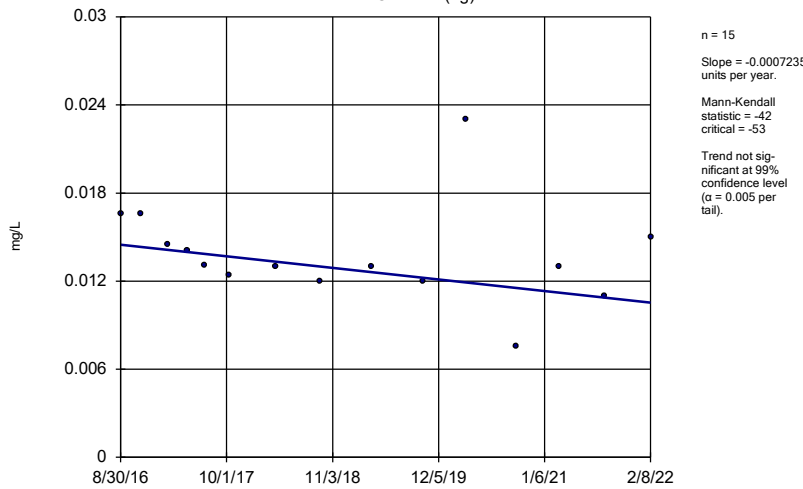
Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.0007235 units per year.

Mann-Kendall statistic = -42
critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

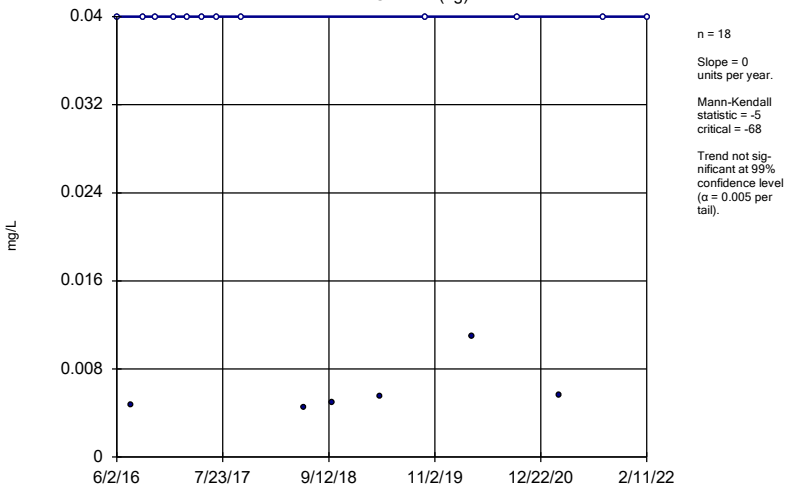
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

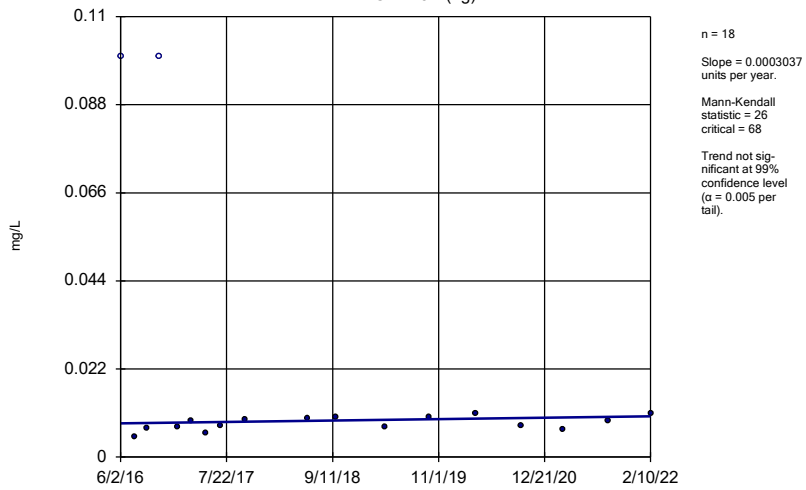
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = 0.0003037 units per year.

Mann-Kendall statistic = 26
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

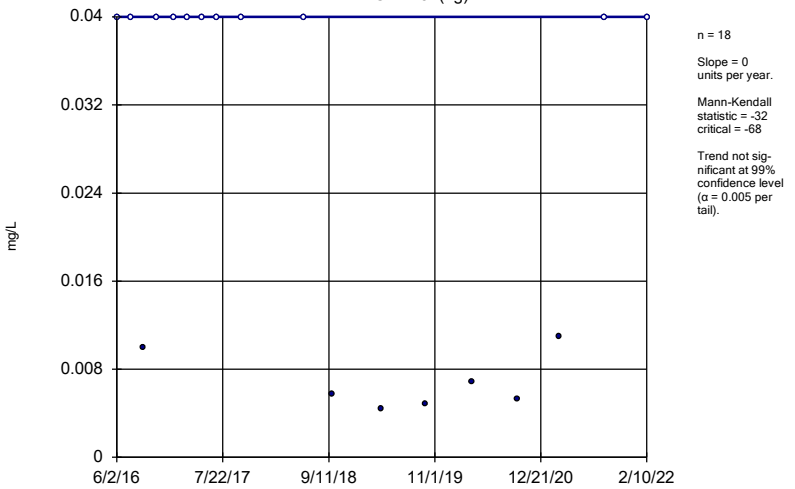
Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -32
critical = -68

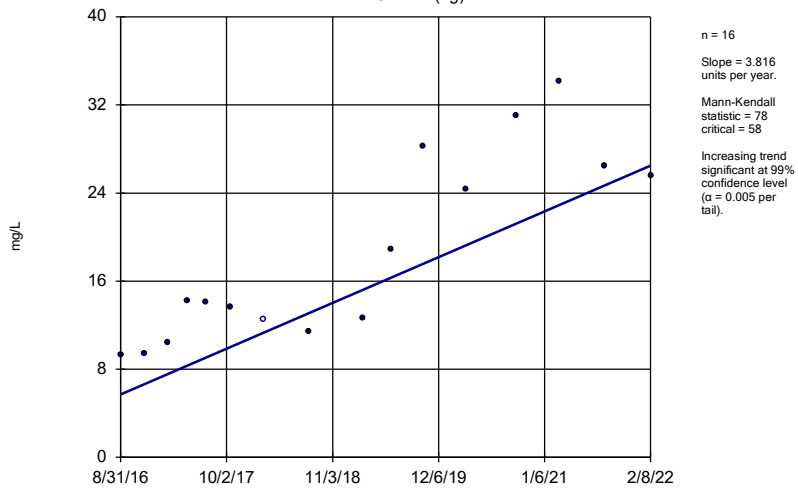
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 3.816 units per year.

Mann-Kendall statistic = 78
critical = 58

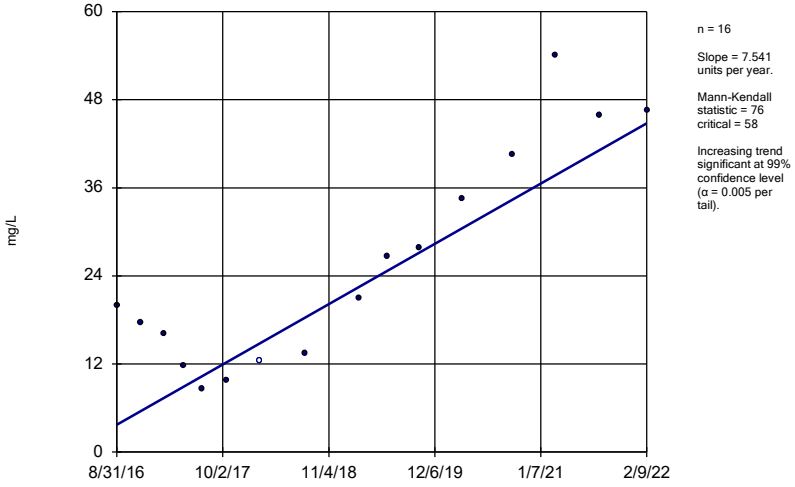
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 16

Slope = 7.541 units per year.

Mann-Kendall statistic = 76
critical = 58

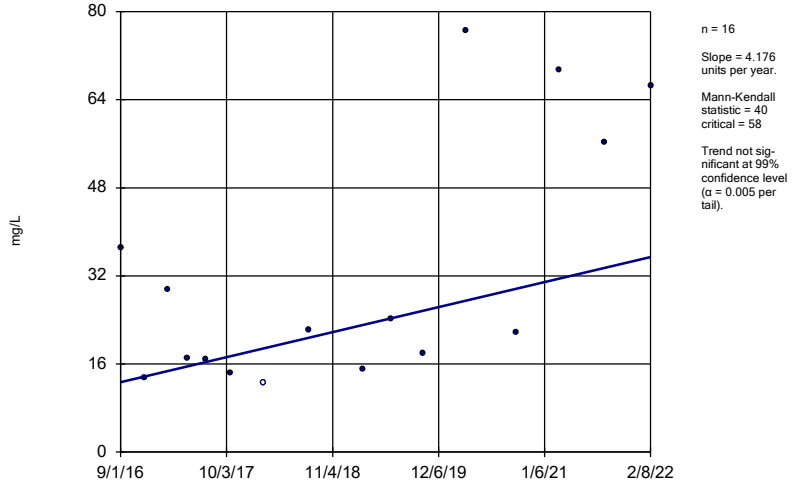
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-4R



n = 16

Slope = 4.176 units per year.

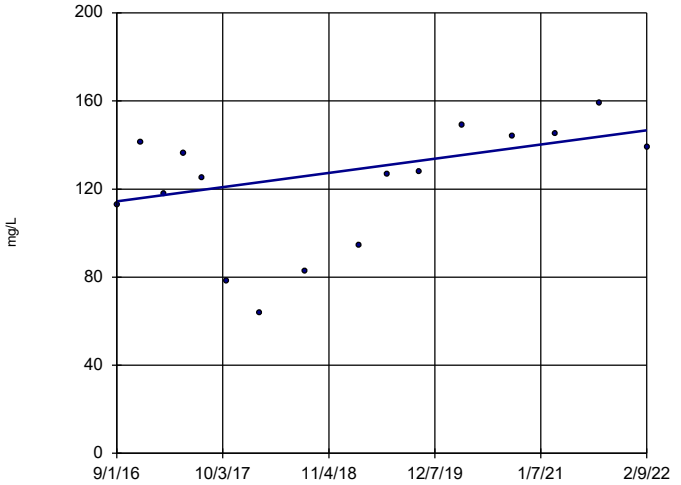
Mann-Kendall statistic = 40
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 16

Slope = 5.948 units per year.

Mann-Kendall statistic = 48
critical = 58

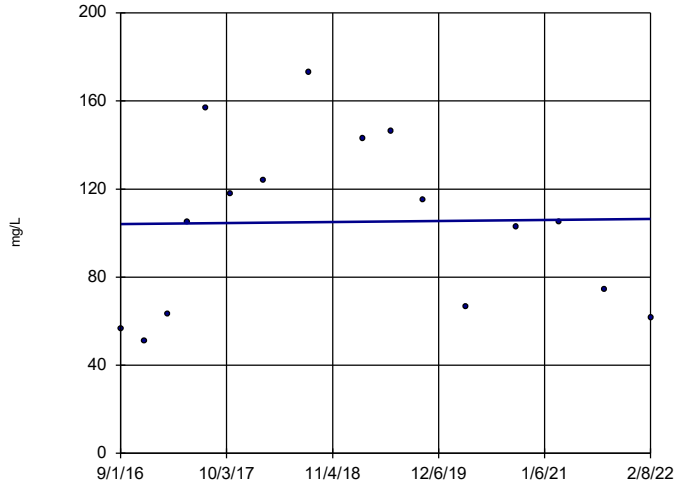
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 16

Slope = 0.4319 units per year.

Mann-Kendall statistic = 1
critical = 58

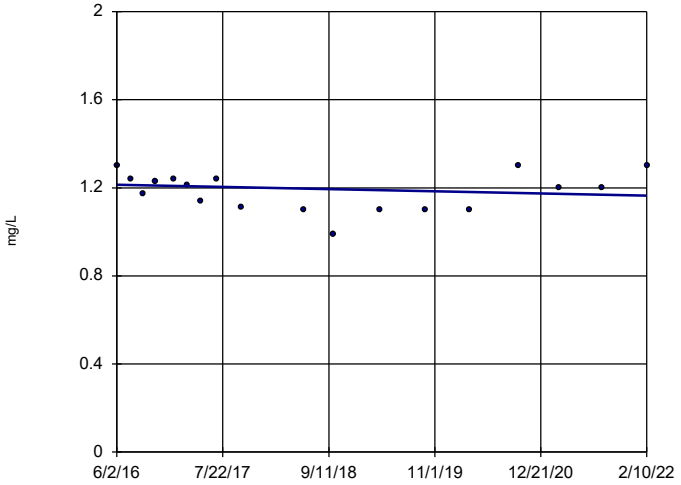
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = -0.00868 units per year.

Mann-Kendall statistic = -30
critical = -68

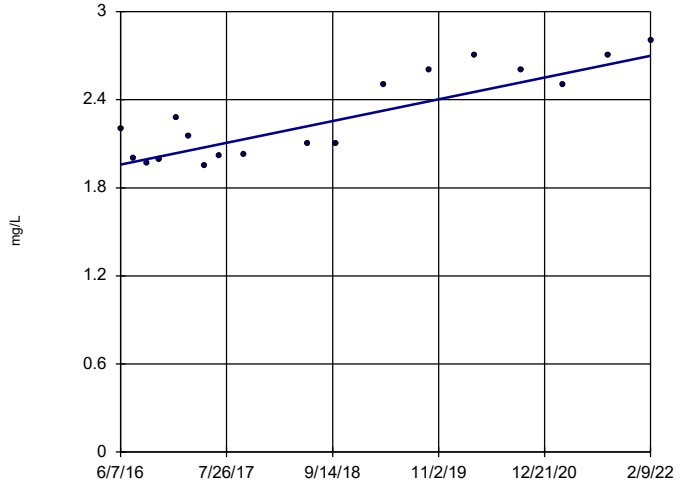
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.1305 units per year.

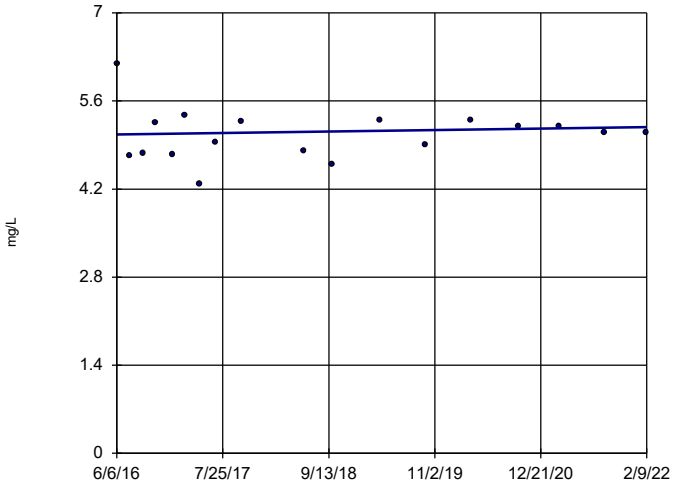
Mann-Kendall statistic = 91
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.02072 units per year.

Mann-Kendall statistic = 10 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

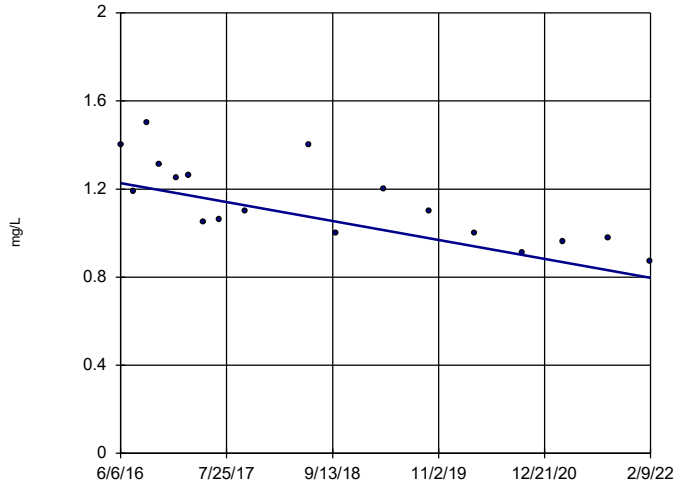
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.07569 units per year.

Mann-Kendall statistic = -96 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

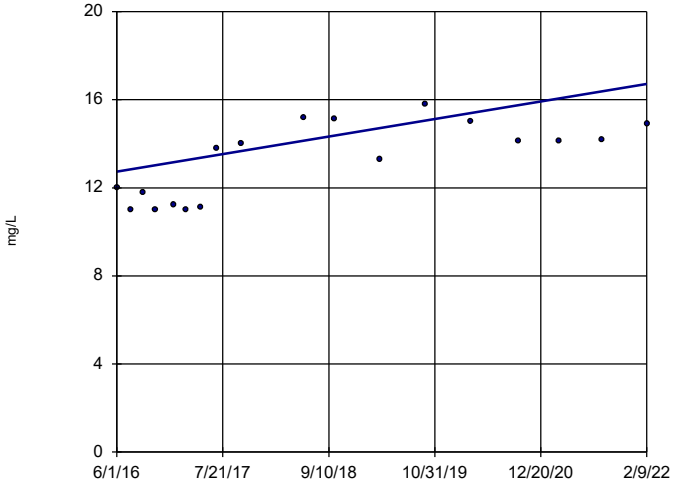
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.7001 units per year.

Mann-Kendall statistic = 77 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

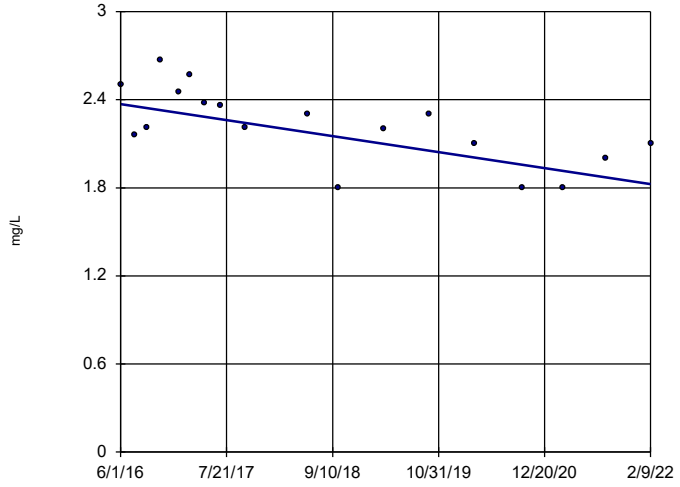
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.0958 units per year.

Mann-Kendall statistic = -81 critical = -68

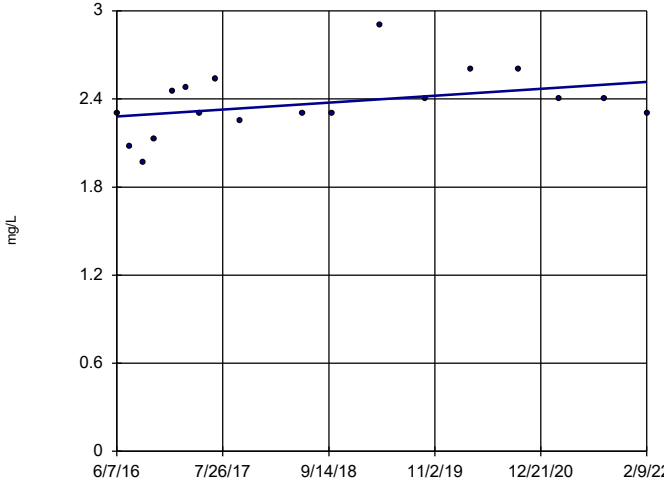
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.04138 units per year.

Mann-Kendall statistic = 51 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

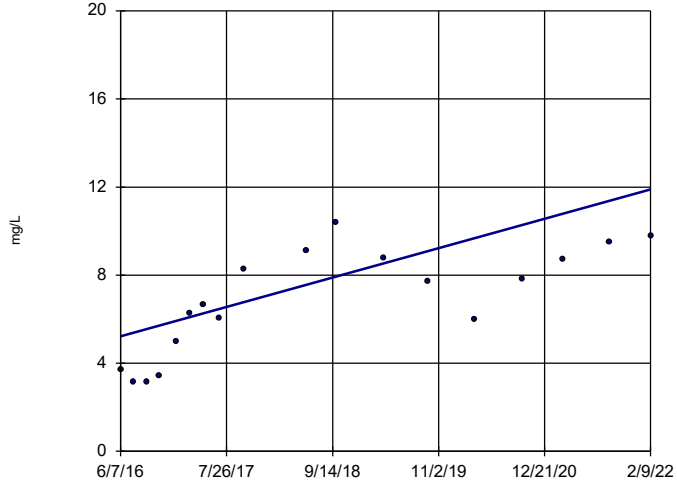
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 1.174 units per year.

Mann-Kendall statistic = 97 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

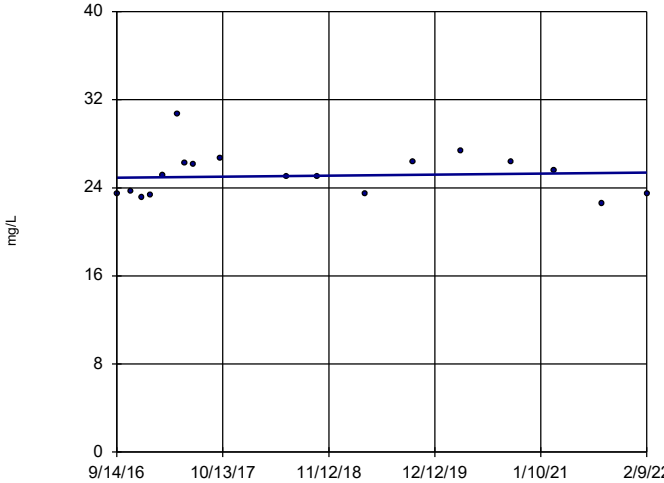
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.08578 units per year.

Mann-Kendall statistic = 11 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

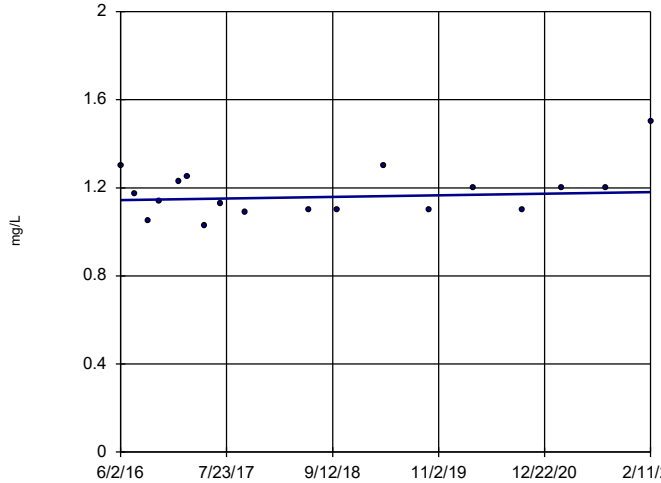
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0.006518 units per year.

Mann-Kendall statistic = 17 critical = 68

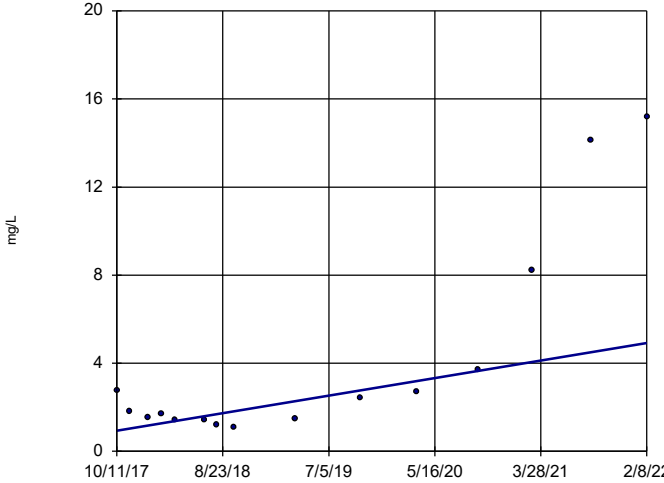
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.9186 units per year.

Mann-Kendall statistic = 40 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

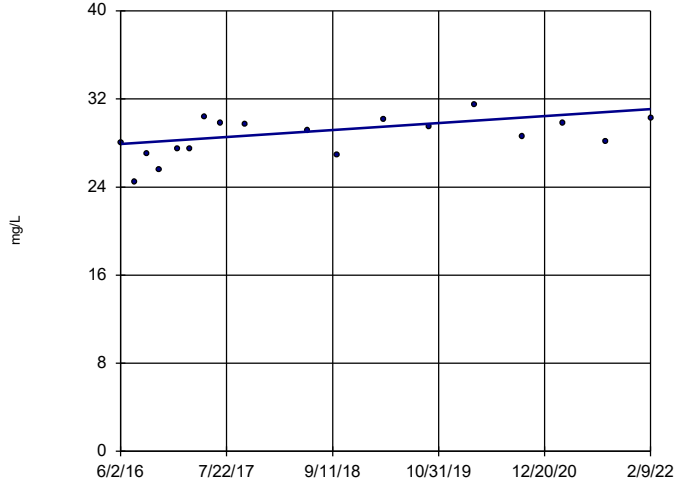
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.5552 units per year.

Mann-Kendall statistic = 59 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

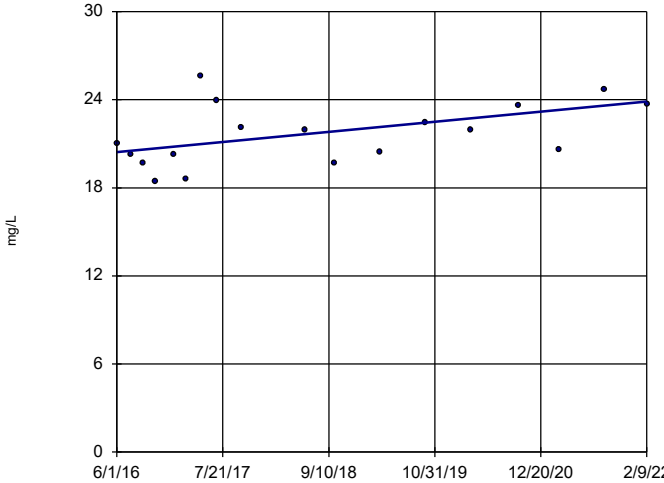
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 0.6025 units per year.

Mann-Kendall statistic = 52 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

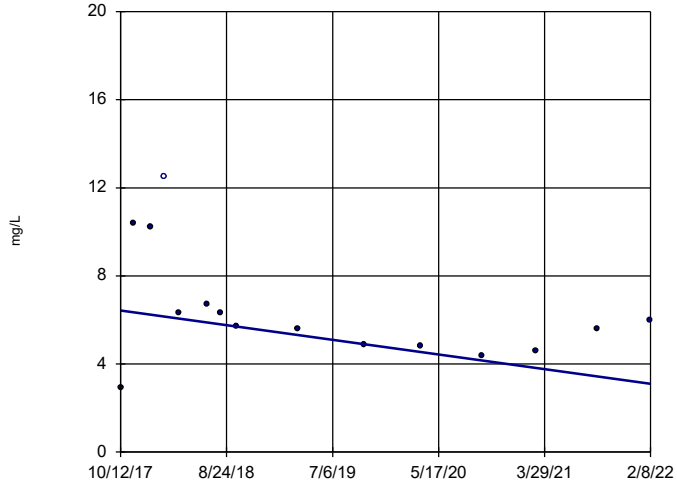
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -0.7684 units per year.

Mann-Kendall statistic = -45 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

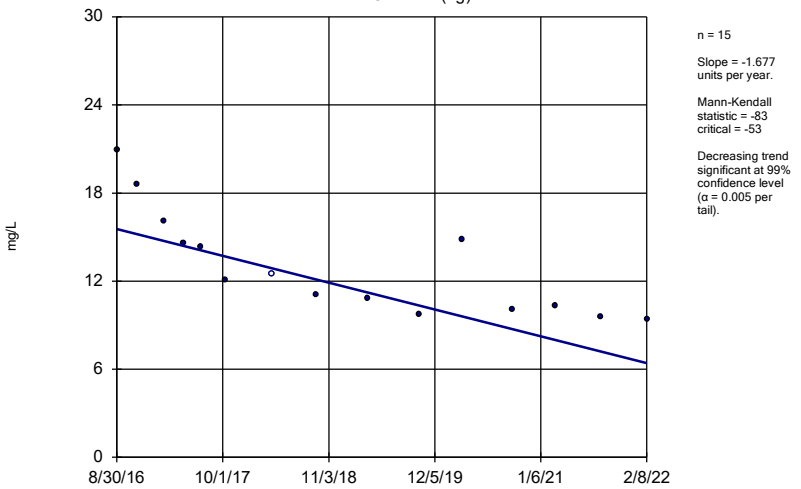
Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -1.677 units per year.

Mann-Kendall statistic = -83
critical = -53

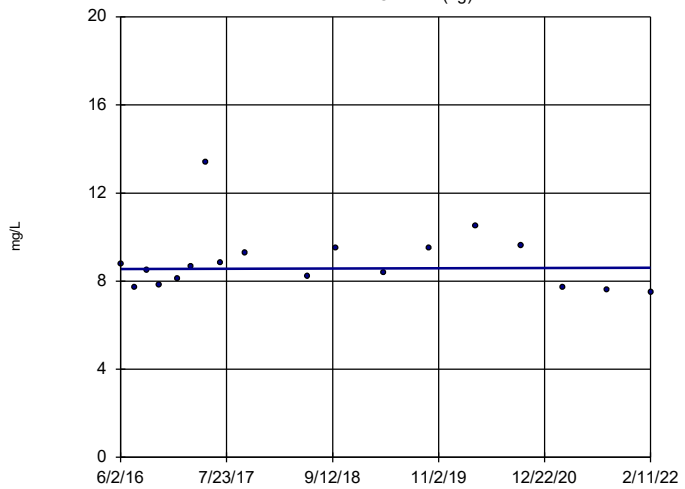
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.009311 units per year.

Mann-Kendall statistic = 4
critical = 68

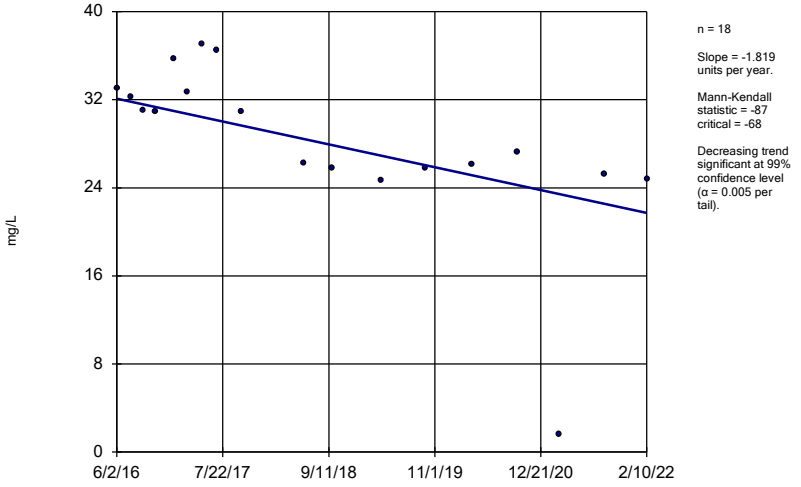
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -1.819 units per year.

Mann-Kendall statistic = -87
critical = -68

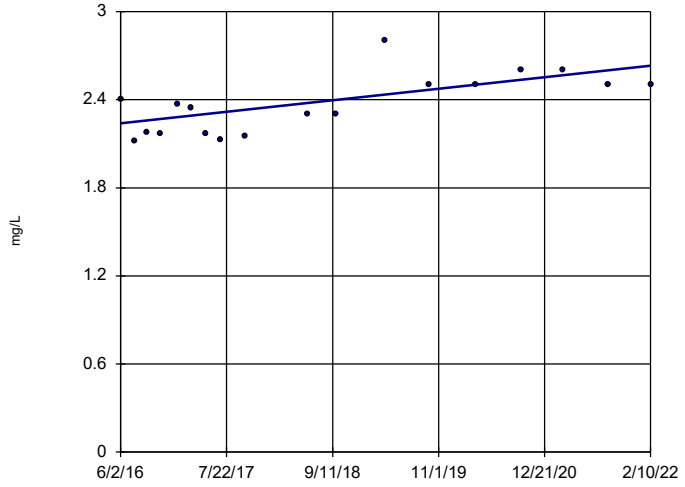
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.06854 units per year.

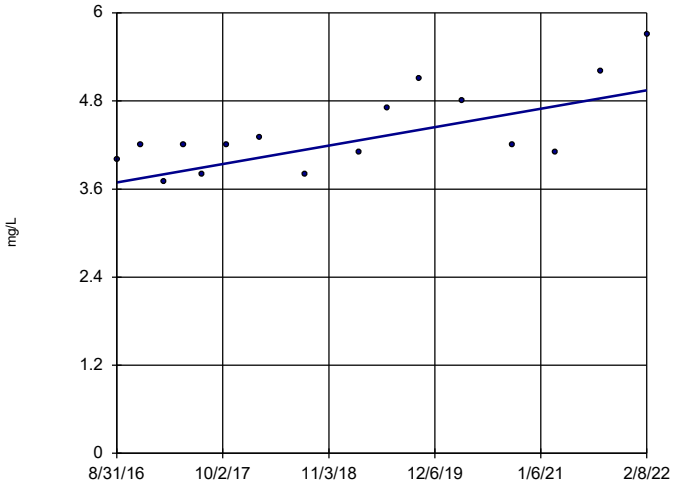
Mann-Kendall statistic = 66
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 0.2307 units per year.

Mann-Kendall statistic = 58
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

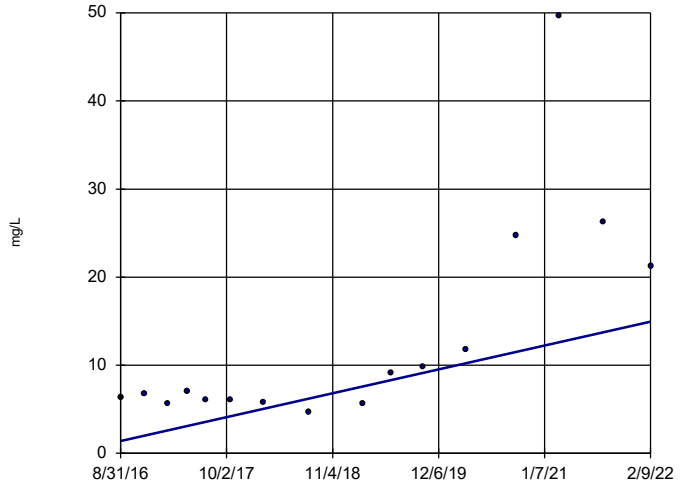
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 16

Slope = 2.487 units per year.

Mann-Kendall statistic = 59
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

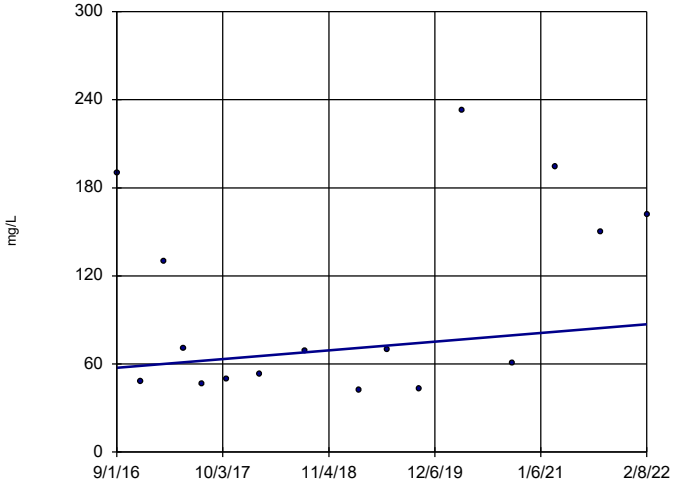
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 16

Slope = 5.458 units per year.

Mann-Kendall statistic = 20
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

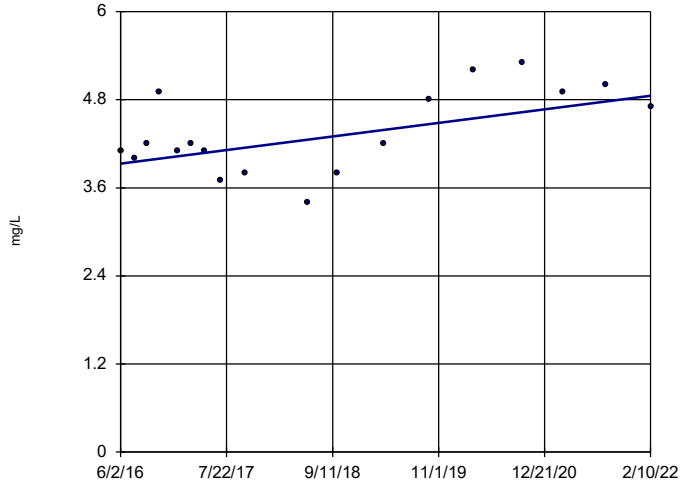
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.1623 units per year.

Mann-Kendall statistic = 47
critical = 68

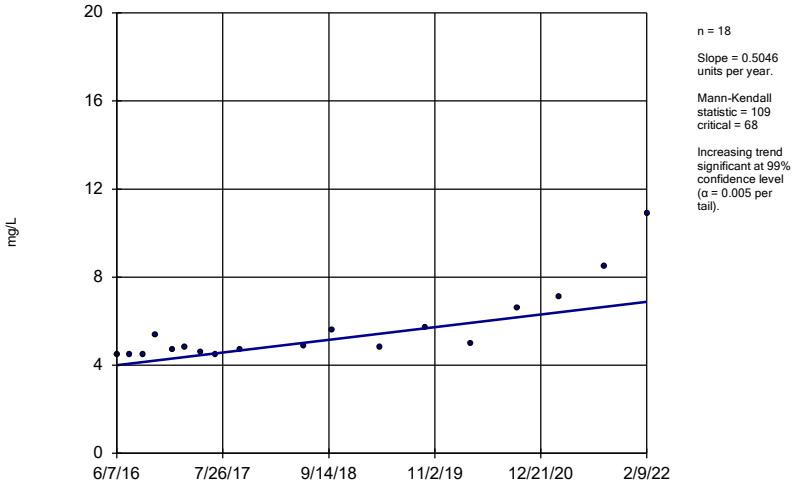
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.5046 units per year.

Mann-Kendall statistic = 109 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

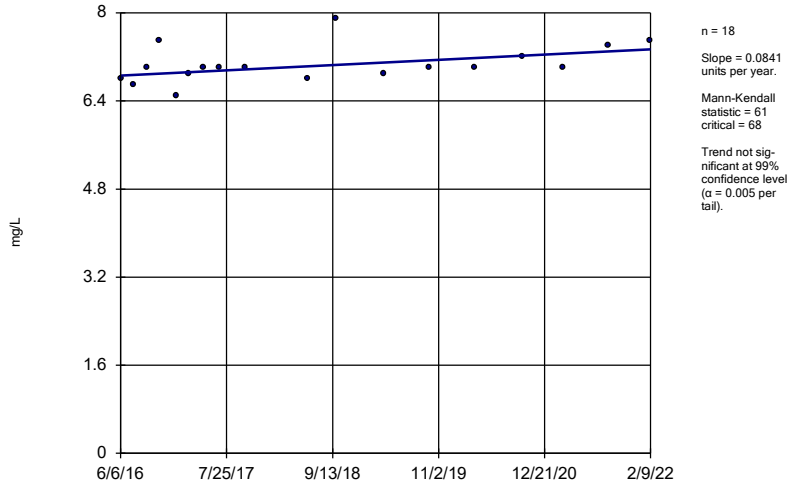
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = 0.0841 units per year.

Mann-Kendall statistic = 61 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

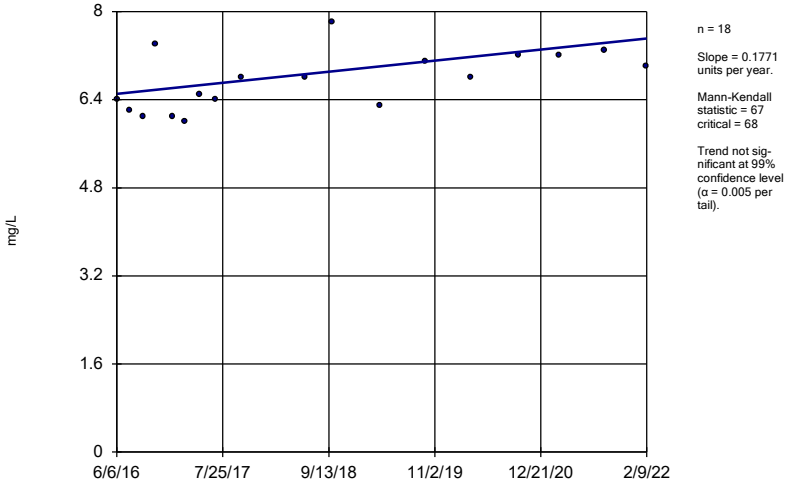
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.1771 units per year.

Mann-Kendall statistic = 67 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

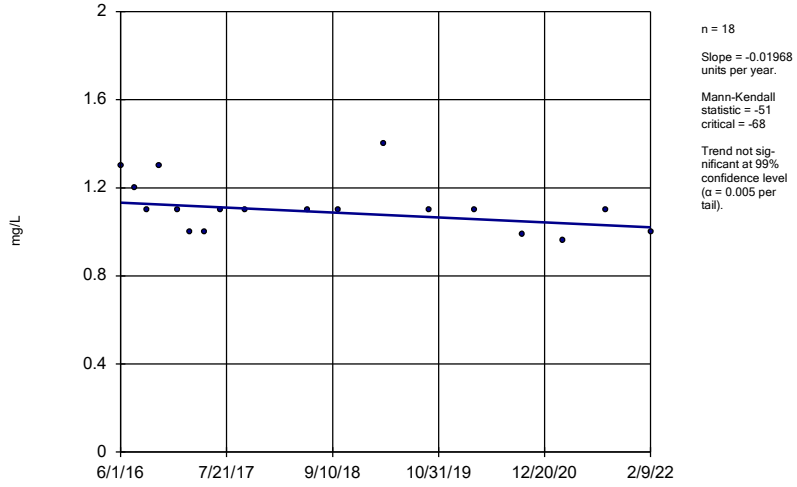
Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = -0.01968 units per year.

Mann-Kendall statistic = -51 critical = -68

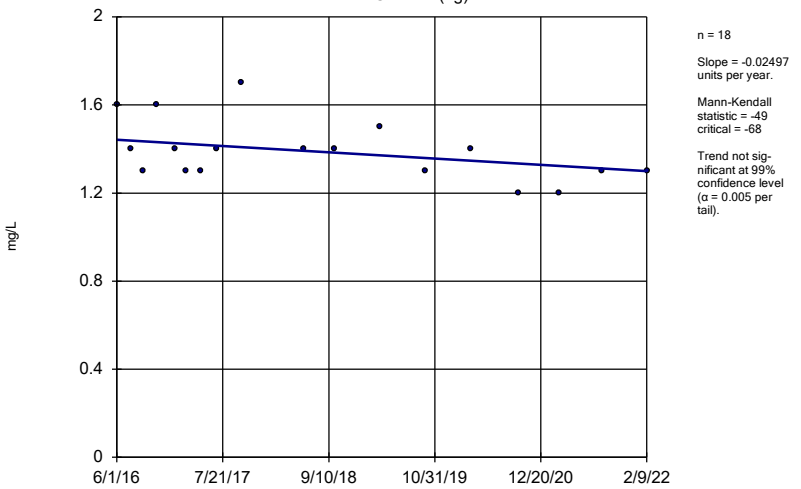
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.02497 units per year.

Mann-Kendall statistic = -49
critical = -68

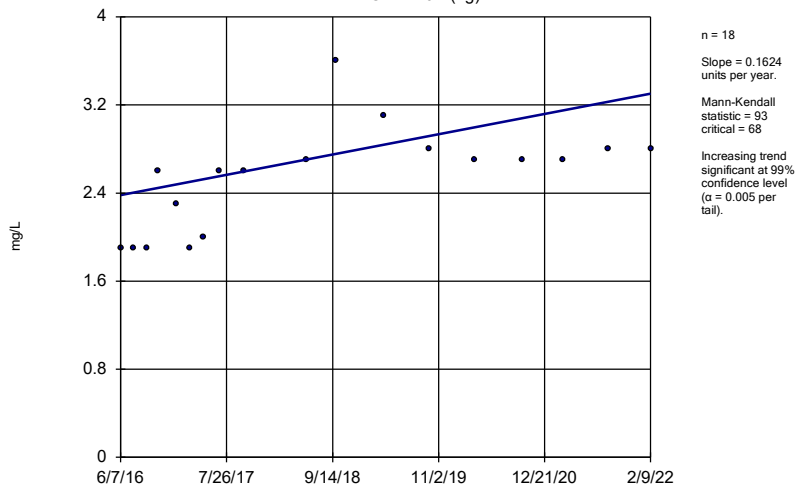
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0.1624 units per year.

Mann-Kendall statistic = 93
critical = 68

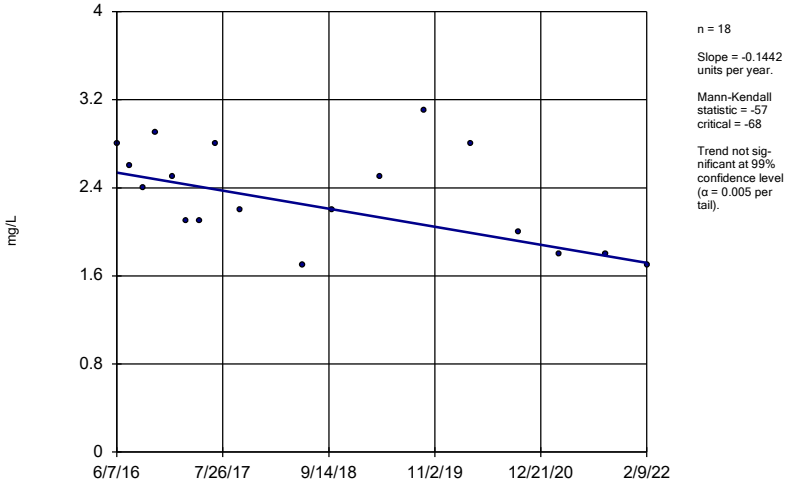
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.1442 units per year.

Mann-Kendall statistic = -57
critical = -68

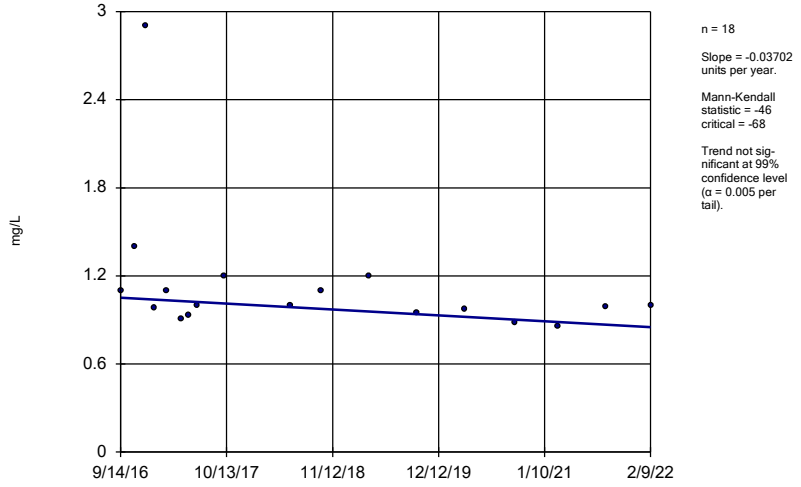
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -0.03702 units per year.

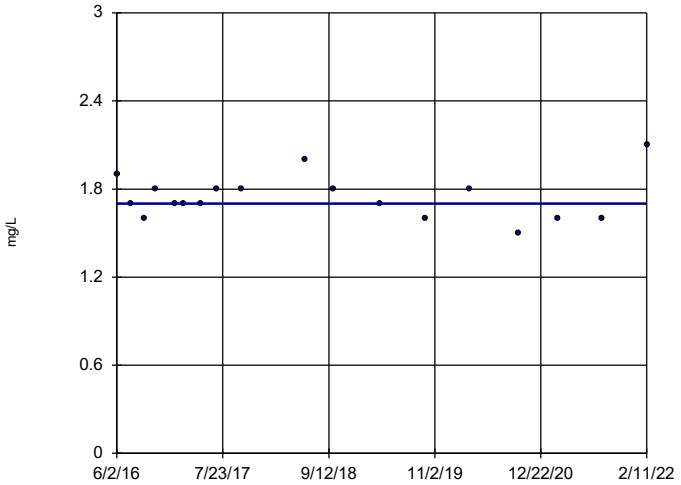
Mann-Kendall statistic = -46
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -68

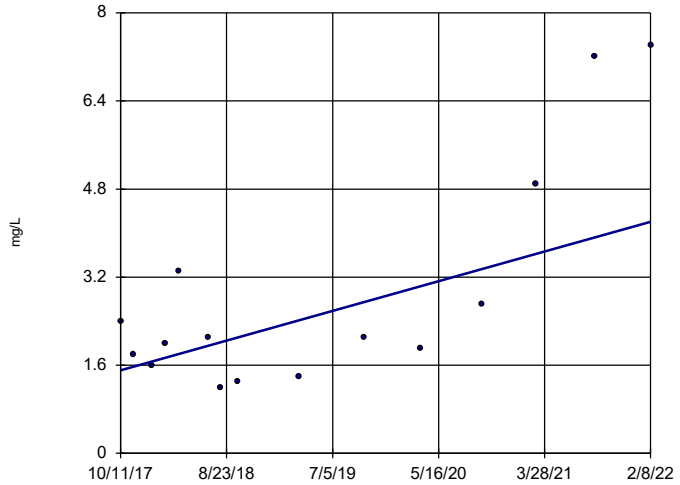
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 0.6239 units per year.

Mann-Kendall statistic = 40
critical = 53

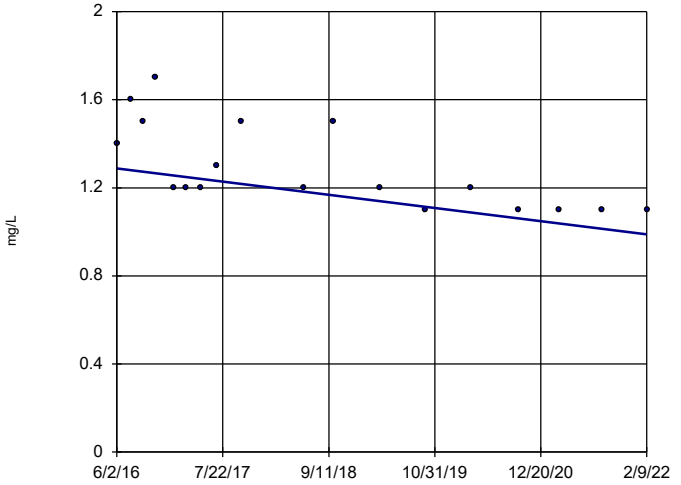
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = -0.05275 units per year.

Mann-Kendall statistic = -85
critical = -68

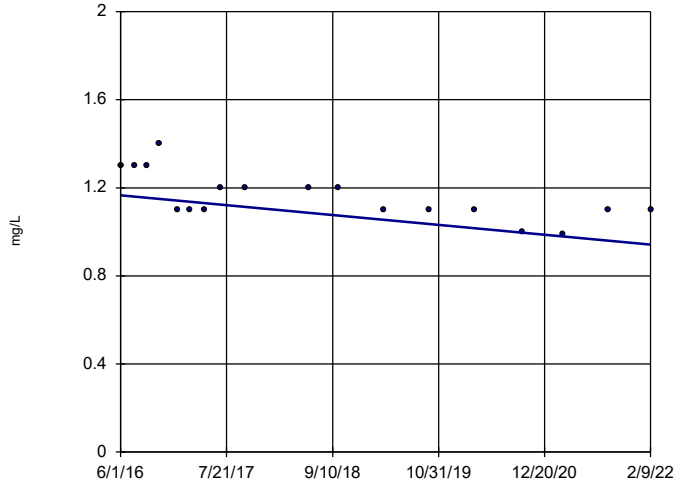
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:34 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = -0.03927 units per year.

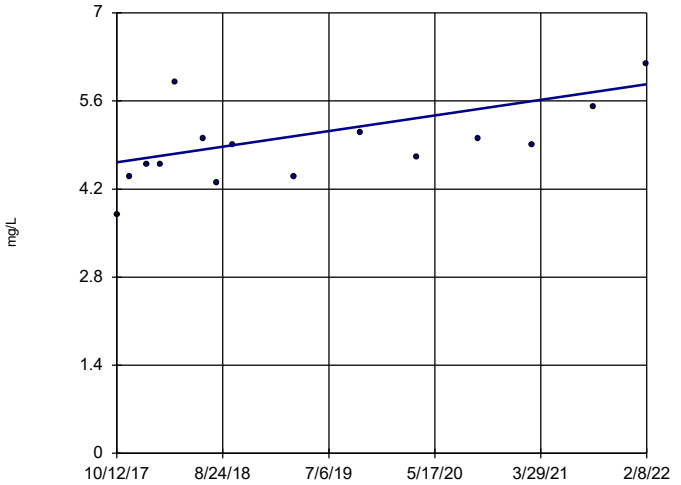
Mann-Kendall statistic = -78
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = 0.2865 units per year.

Mann-Kendall statistic = 51
critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

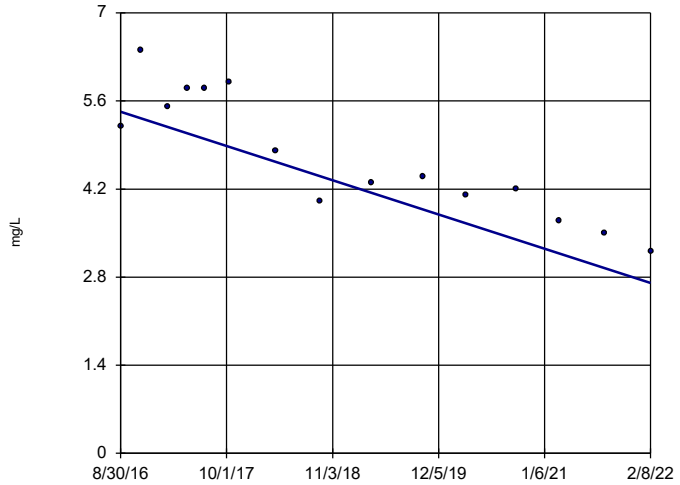
Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -0.4996 units per year.

Mann-Kendall statistic = -72
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

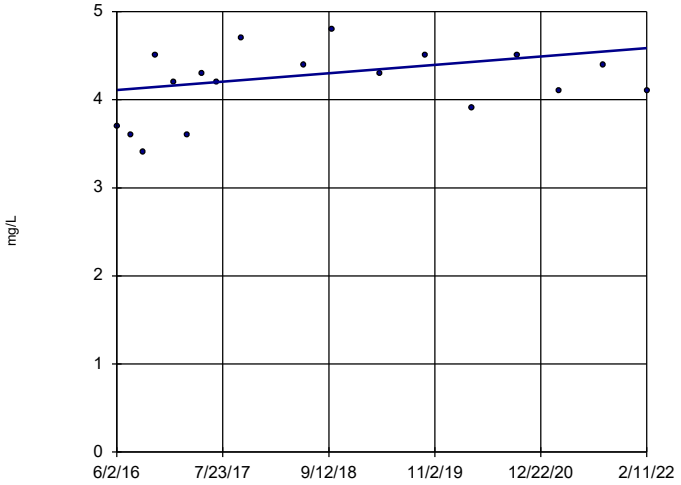
Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.08324 units per year.

Mann-Kendall statistic = 35
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

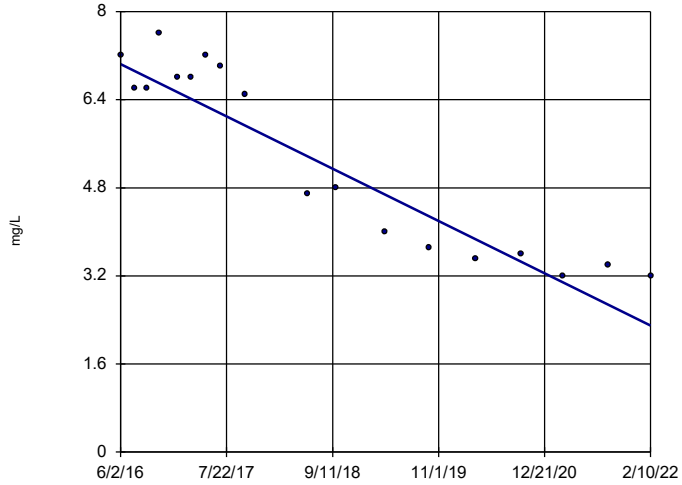
Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -0.8339 units per year.

Mann-Kendall statistic = -113
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

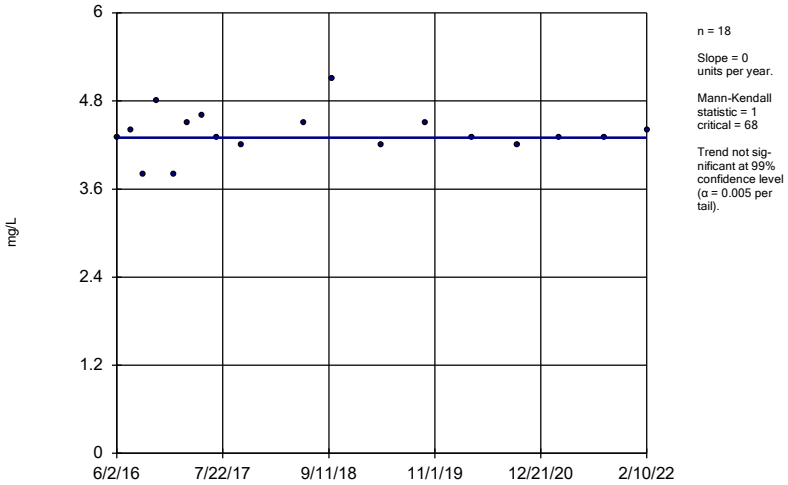
Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

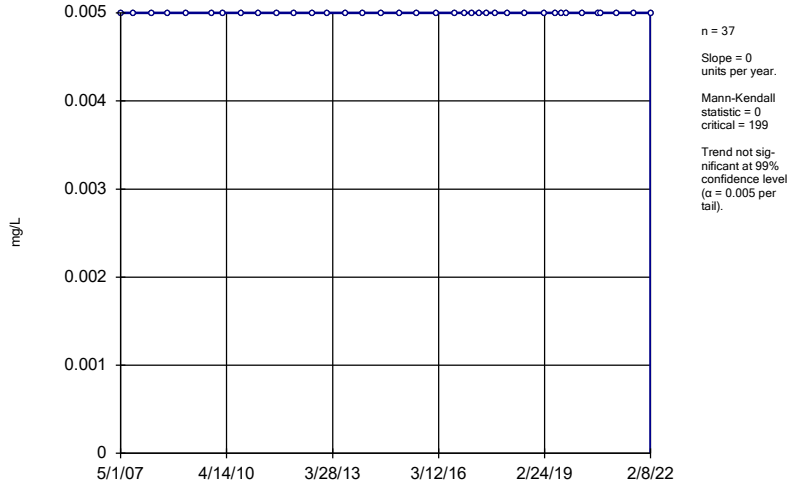
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 37

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 199

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

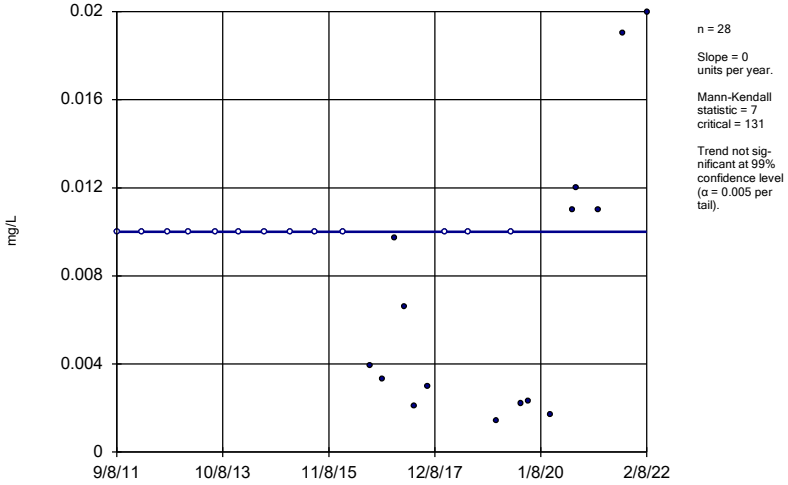
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-1R



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 131

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

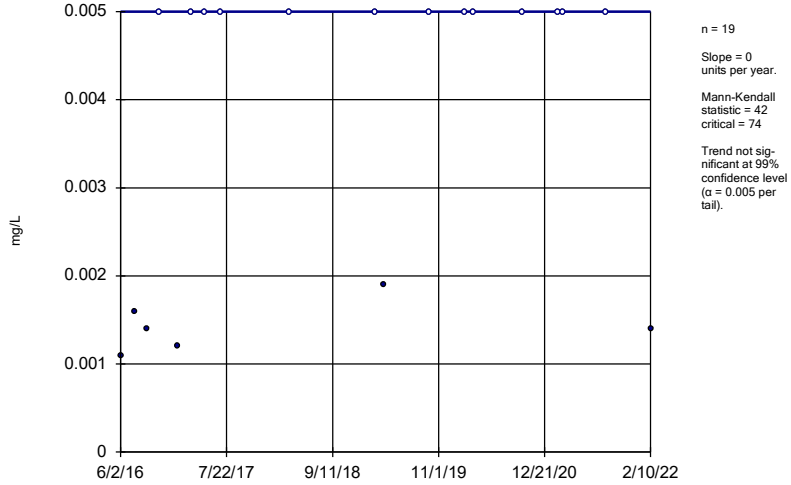
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 42 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

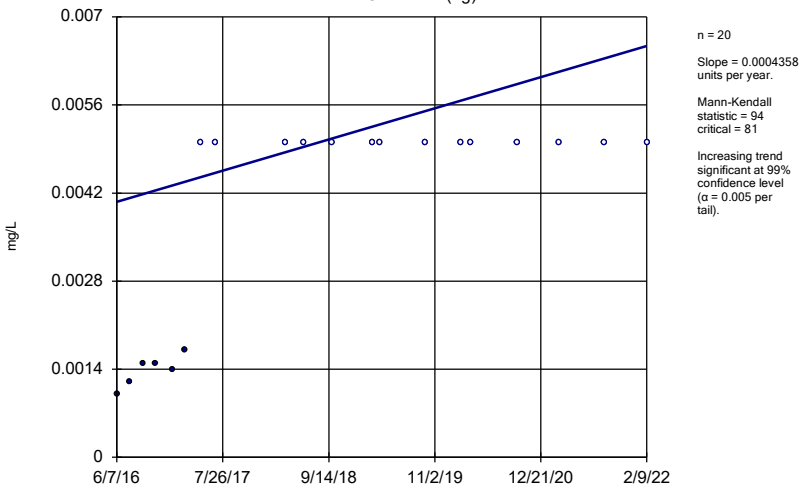
Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.0004358 units per year.

Mann-Kendall statistic = 94
critical = 81

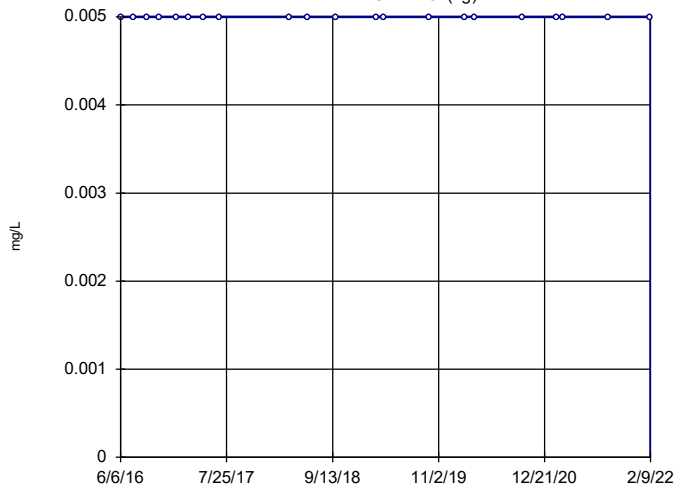
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

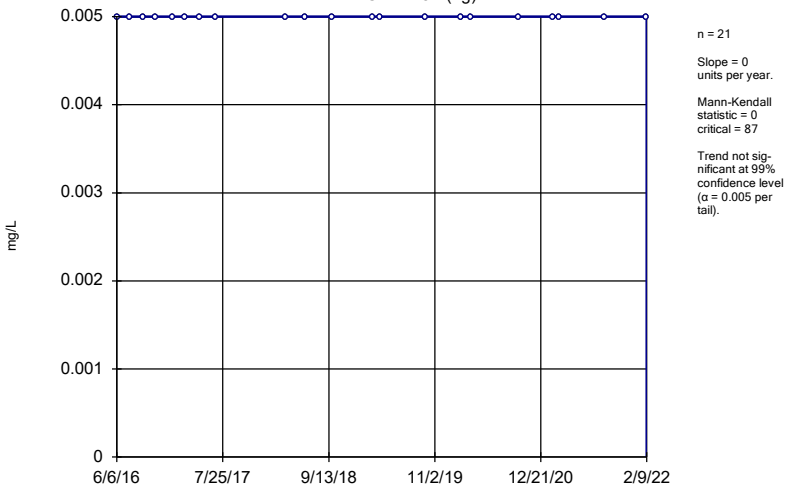
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

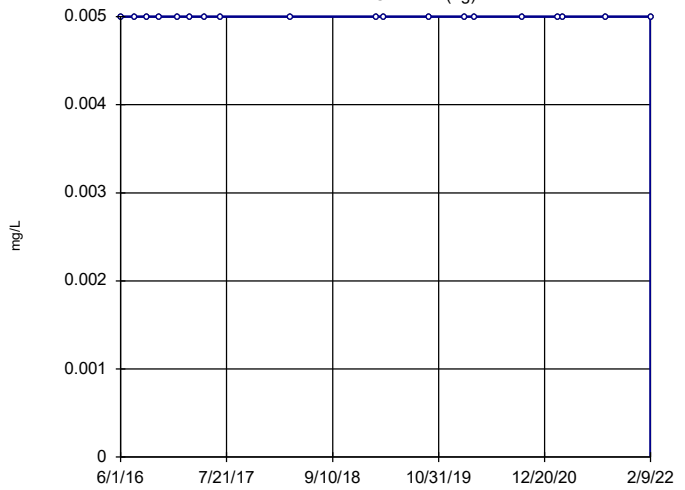
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

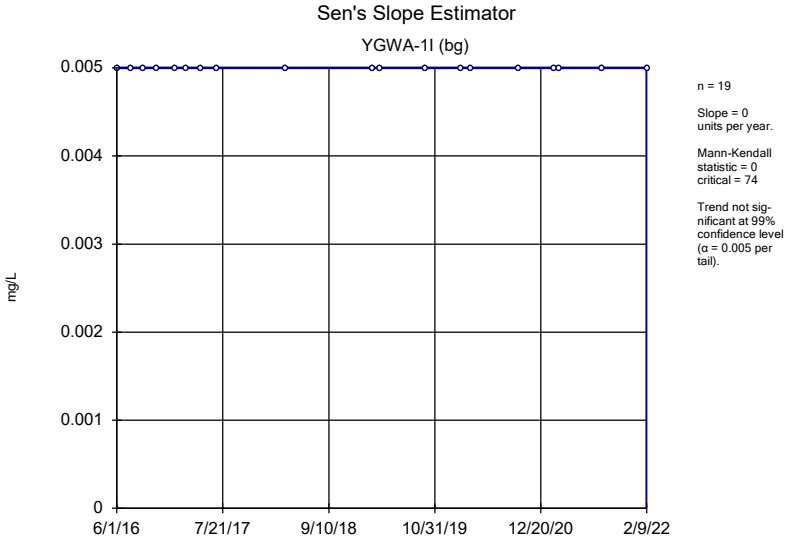
Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

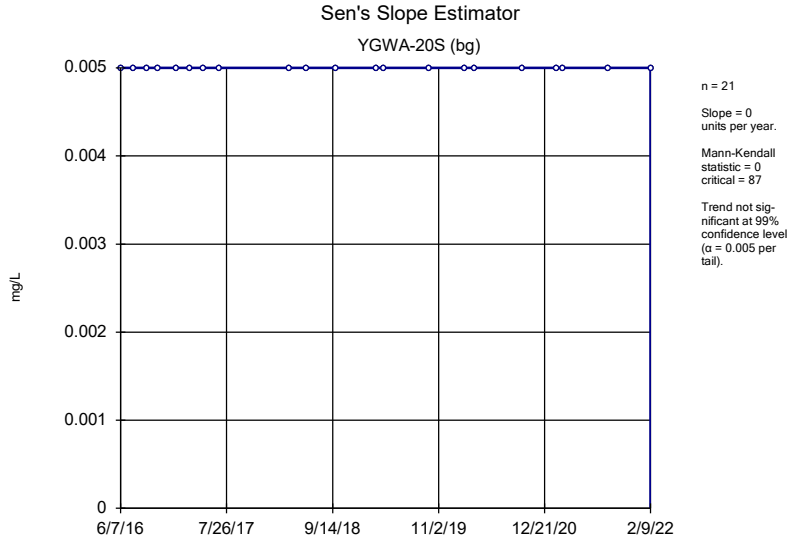
Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



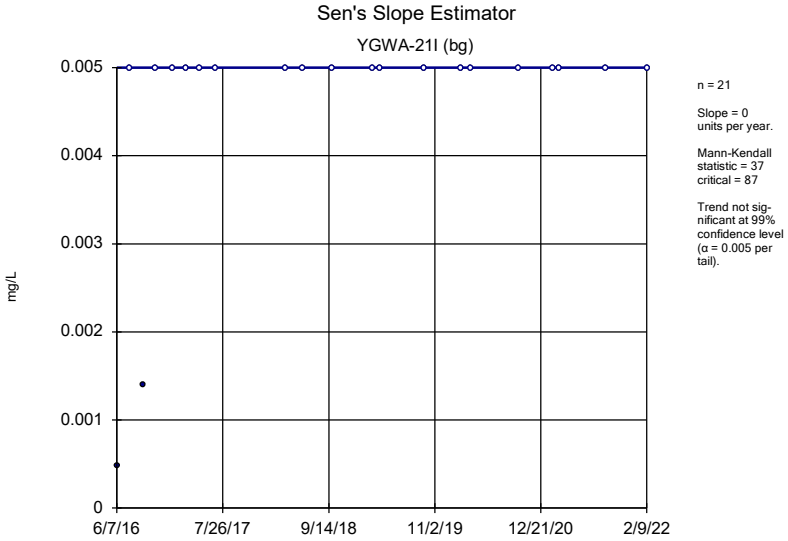
Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



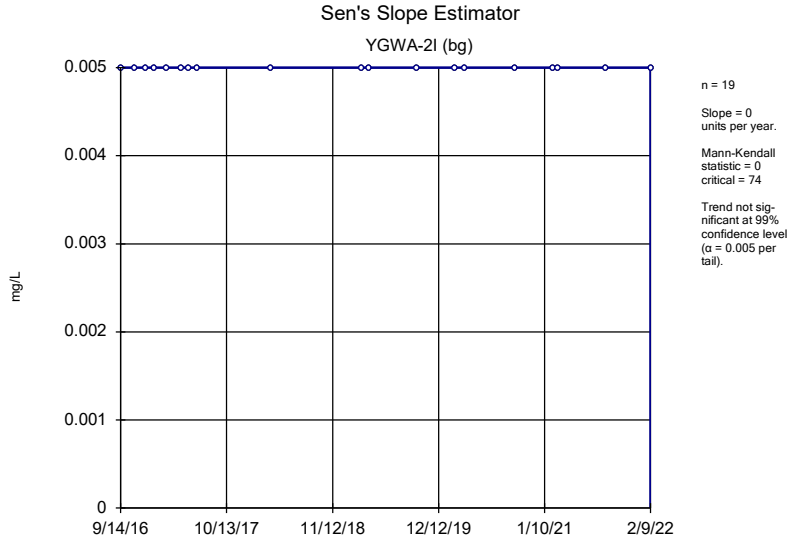
Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.



Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

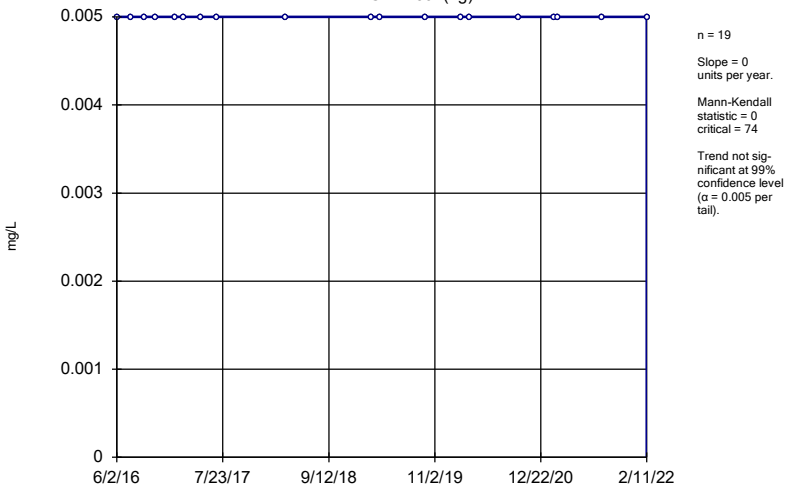


Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

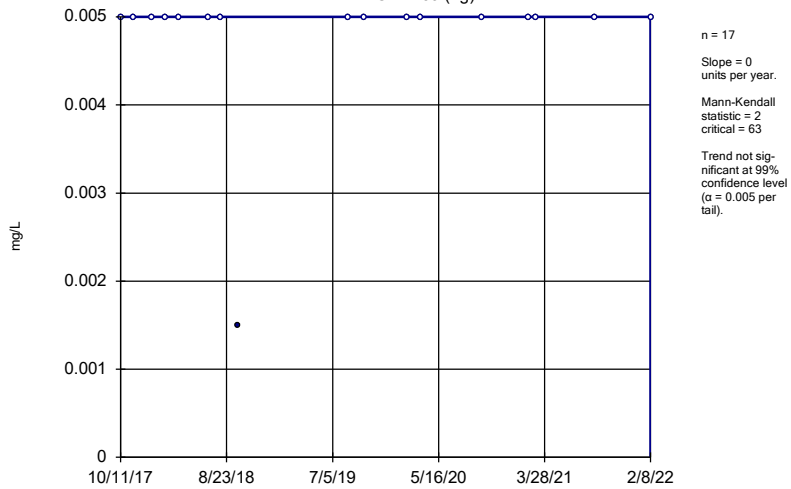
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 63

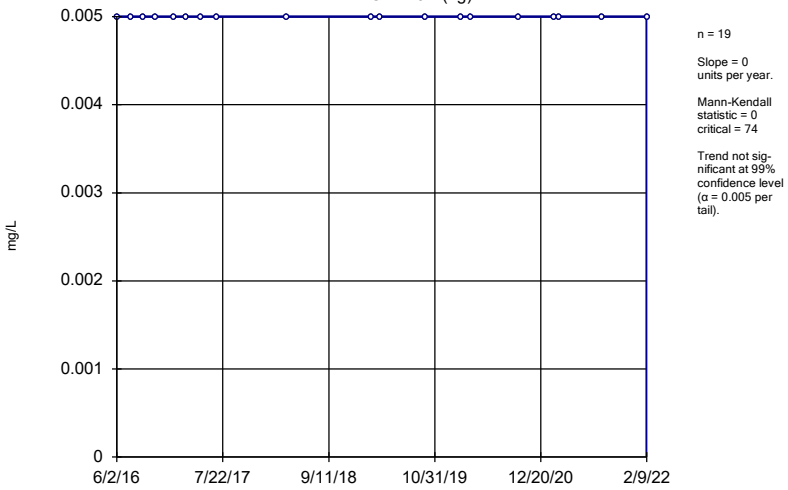
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

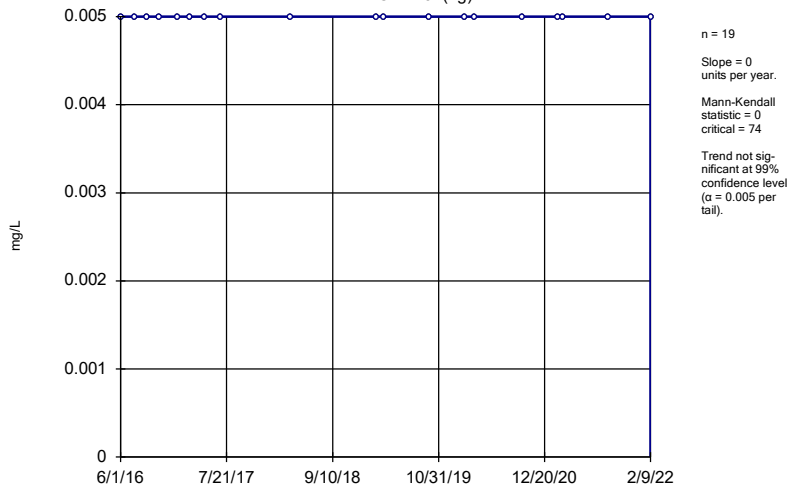
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

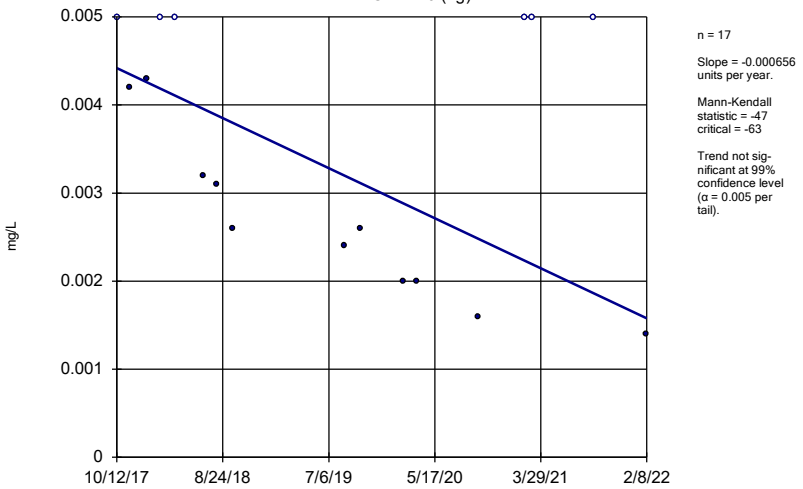
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.000656 units per year.

Mann-Kendall statistic = -47
critical = -63

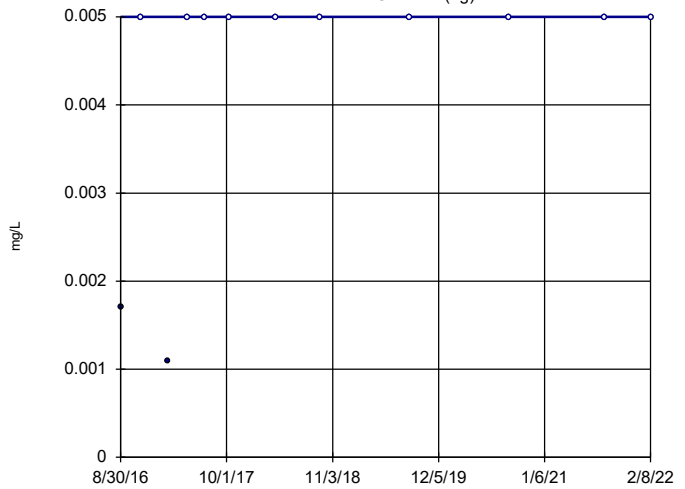
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 38

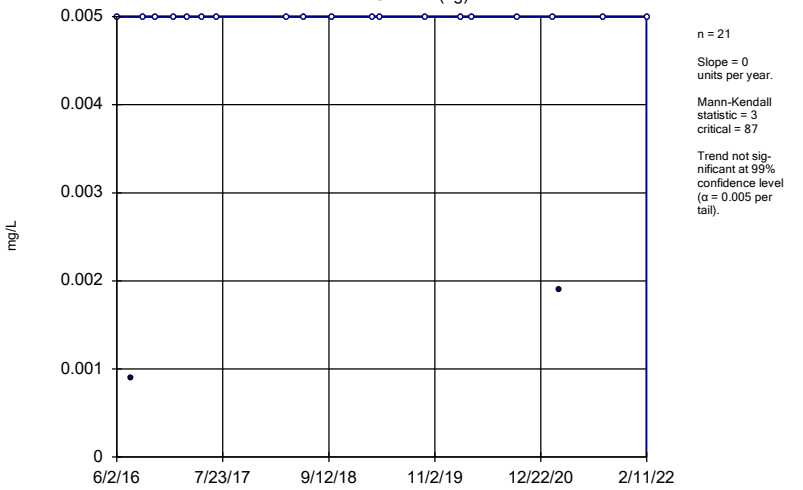
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 87

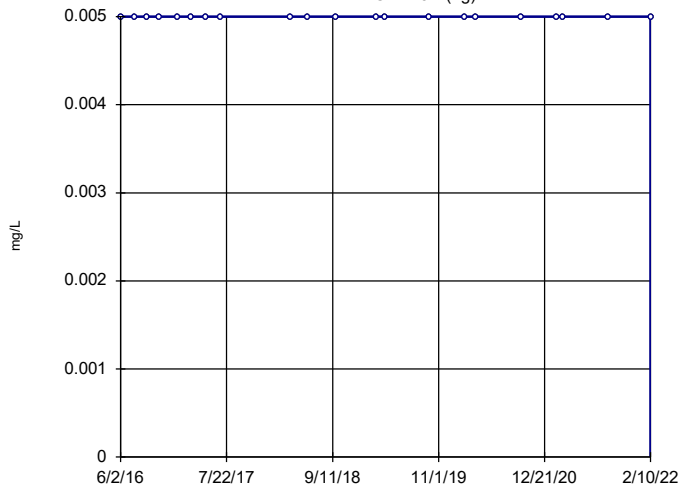
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

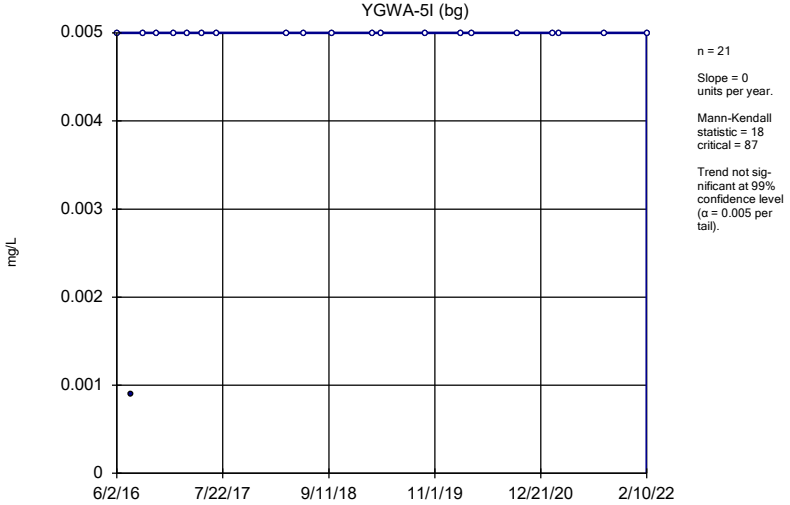
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 18 critical = 87

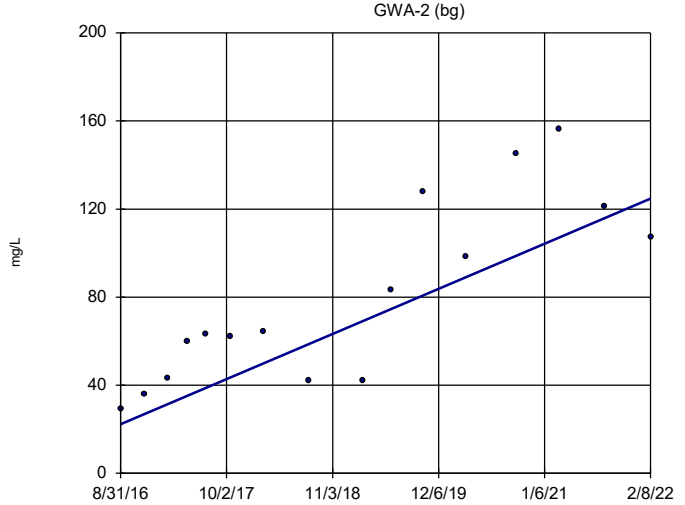
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 18.82 units per year.

Mann-Kendall statistic = 81 critical = 58

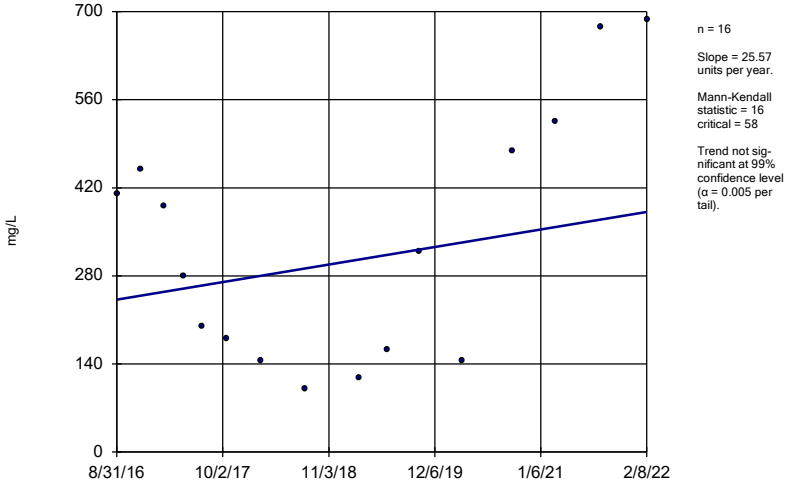
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 16

Slope = 25.57 units per year.

Mann-Kendall statistic = 16 critical = 58

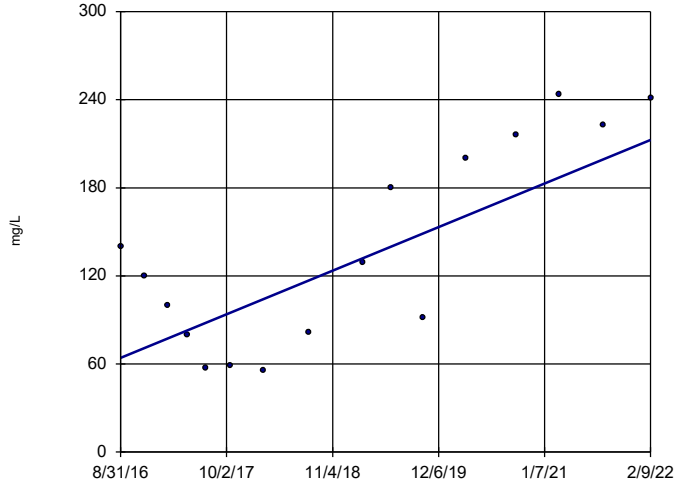
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 16

Slope = 27.28 units per year.

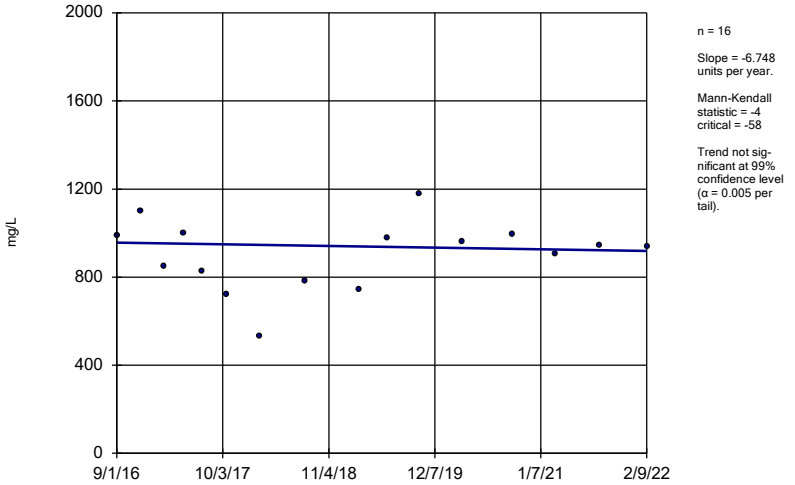
Mann-Kendall statistic = 58 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 16

Slope = -6.748 units per year.

Mann-Kendall statistic = -4 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

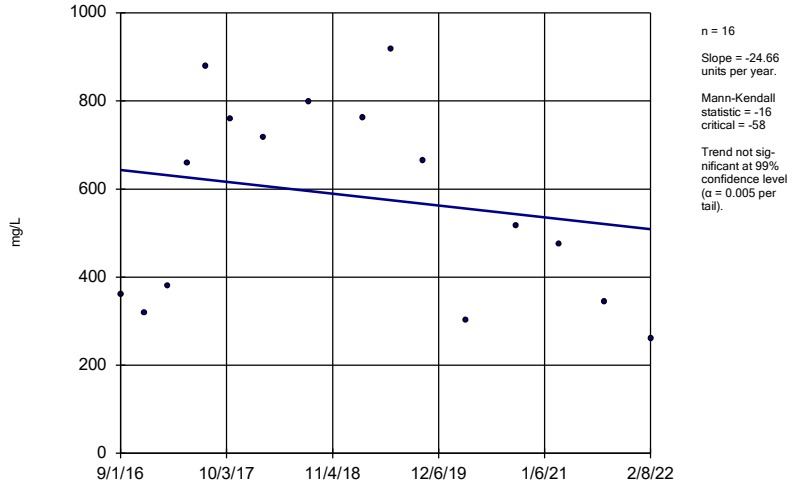
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 16

Slope = -24.66 units per year.

Mann-Kendall statistic = -16 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

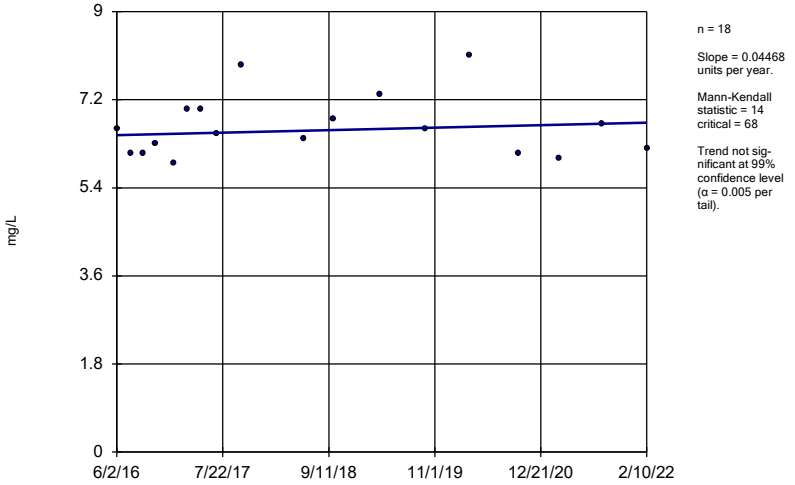
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.04468 units per year.

Mann-Kendall statistic = 14 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

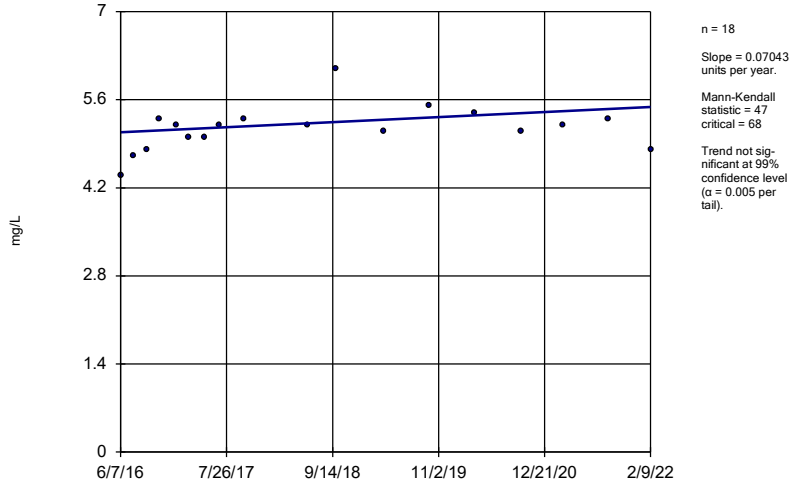
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 0.07043 units per year.

Mann-Kendall statistic = 47 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

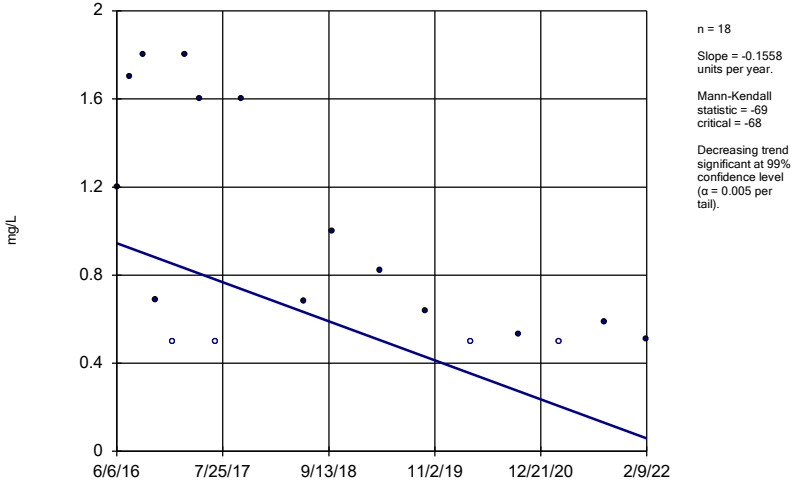
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.1558 units per year.

Mann-Kendall statistic = -69 critical = -68

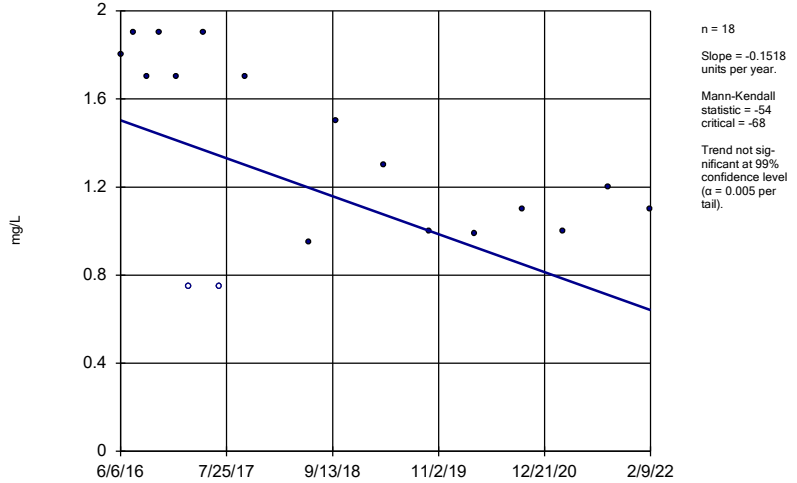
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = -0.1518 units per year.

Mann-Kendall statistic = -54 critical = -68

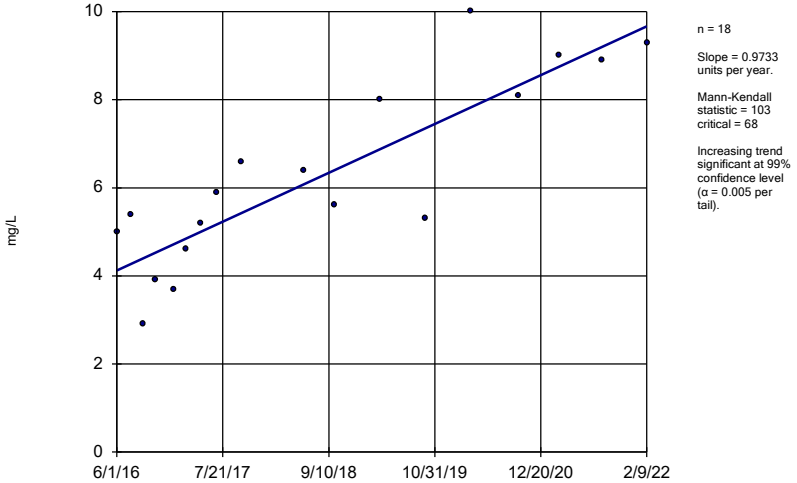
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.9733 units per year.

Mann-Kendall statistic = 103 critical = 68

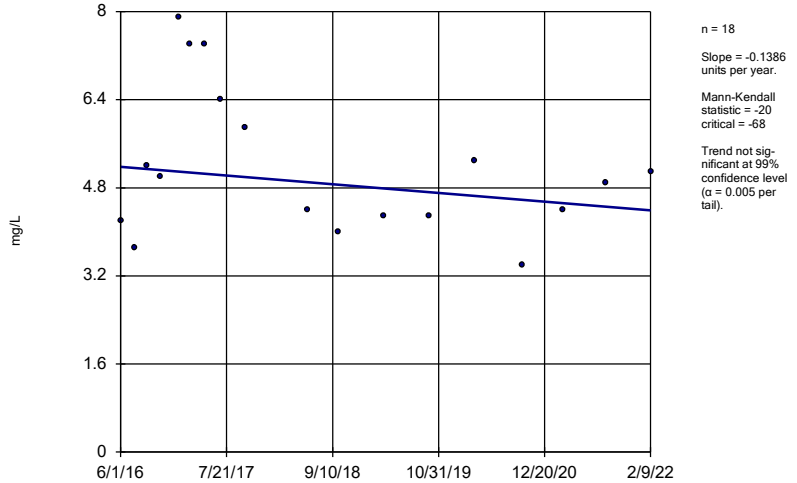
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -0.1386 units per year.

Mann-Kendall statistic = -20 critical = -68

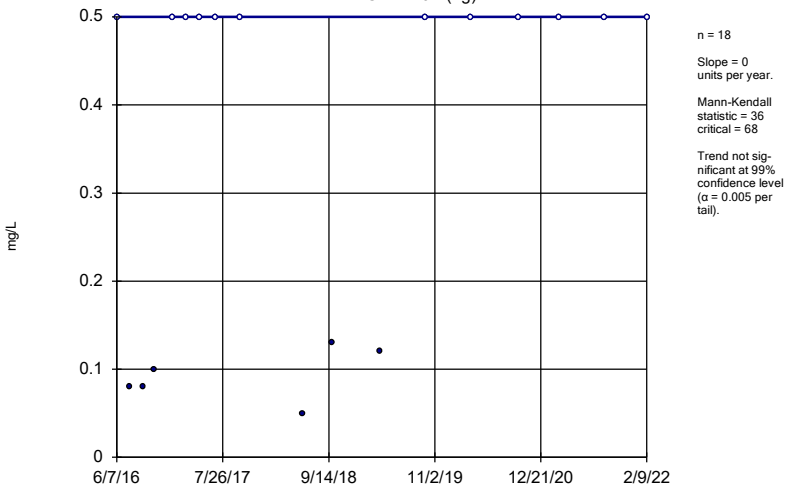
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 36 critical = 68

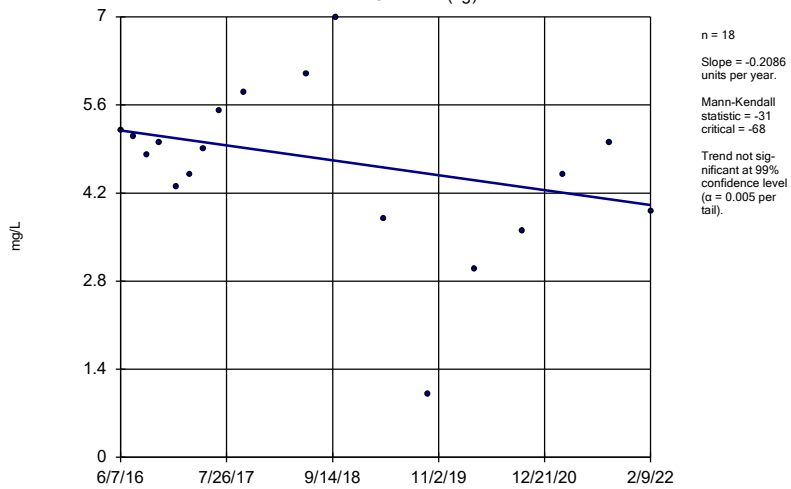
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = -0.2086 units per year.

Mann-Kendall statistic = -31 critical = -68

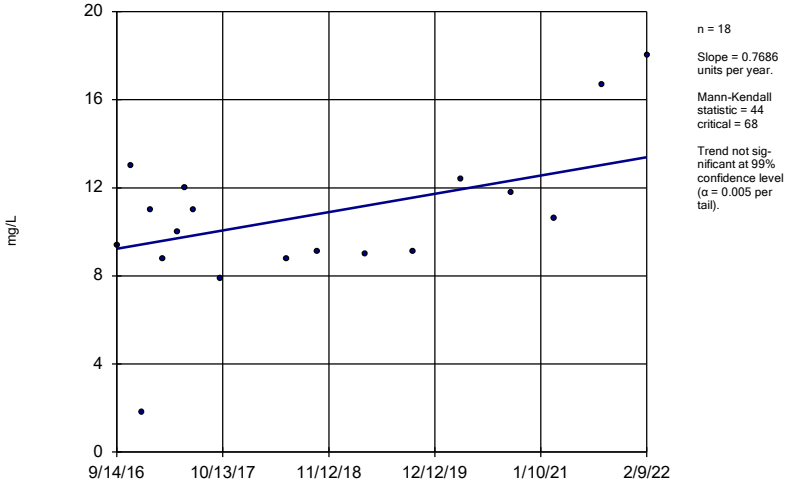
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = 0.7686 units per year.

Mann-Kendall statistic = 44 critical = 68

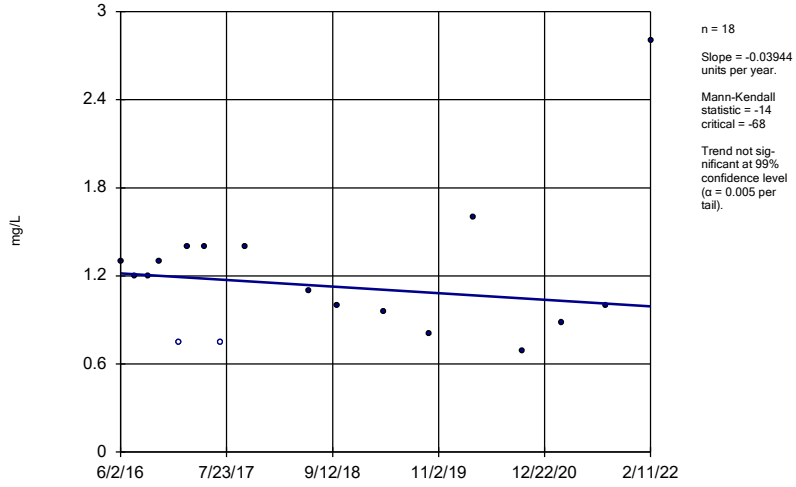
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = -0.03944 units per year.

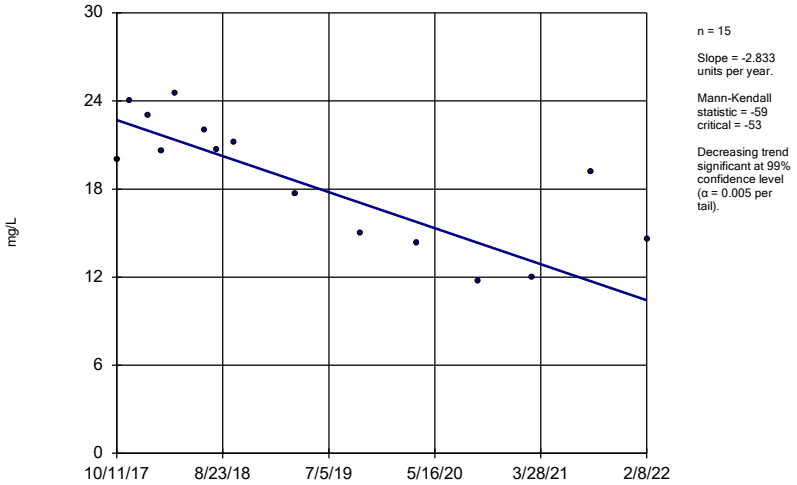
Mann-Kendall statistic = -14 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = -2.833 units per year.

Mann-Kendall statistic = -59
critical = -53

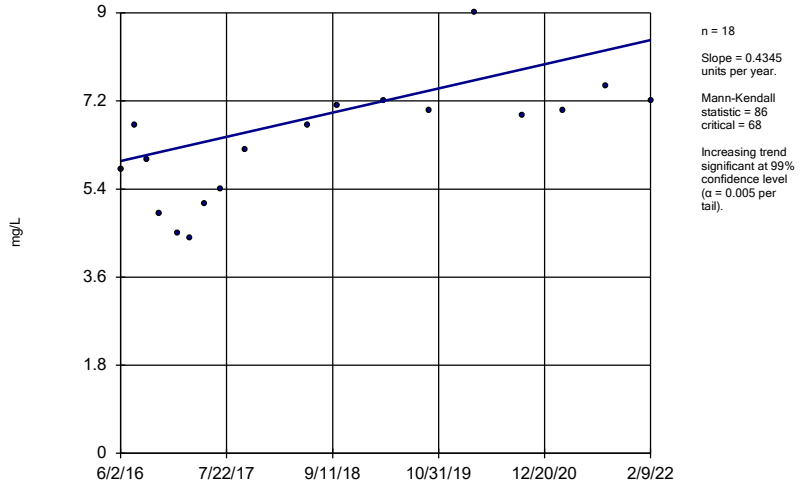
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 0.4345 units per year.

Mann-Kendall statistic = 86
critical = 68

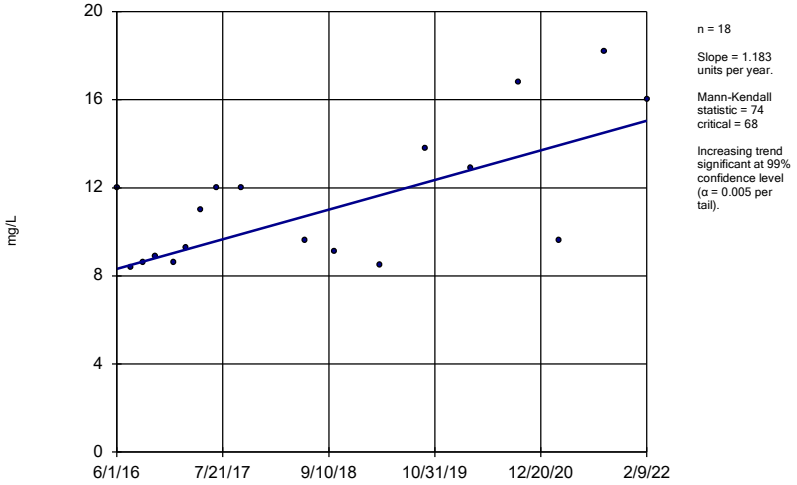
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 1.183 units per year.

Mann-Kendall statistic = 74
critical = 68

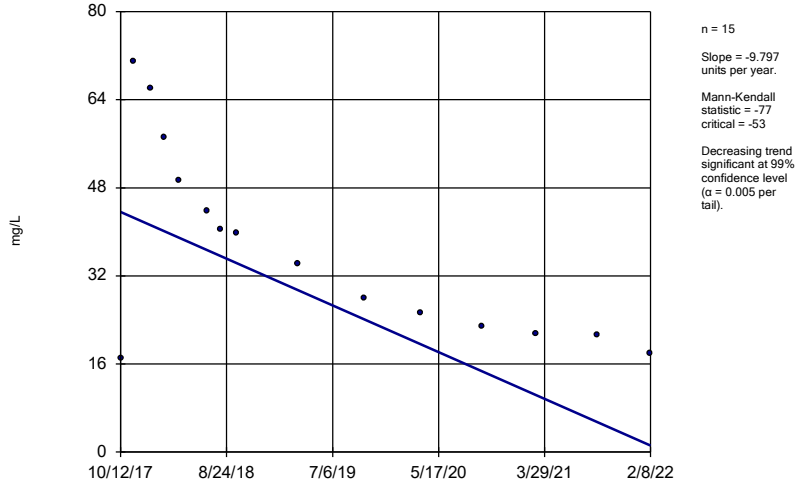
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -9.797 units per year.

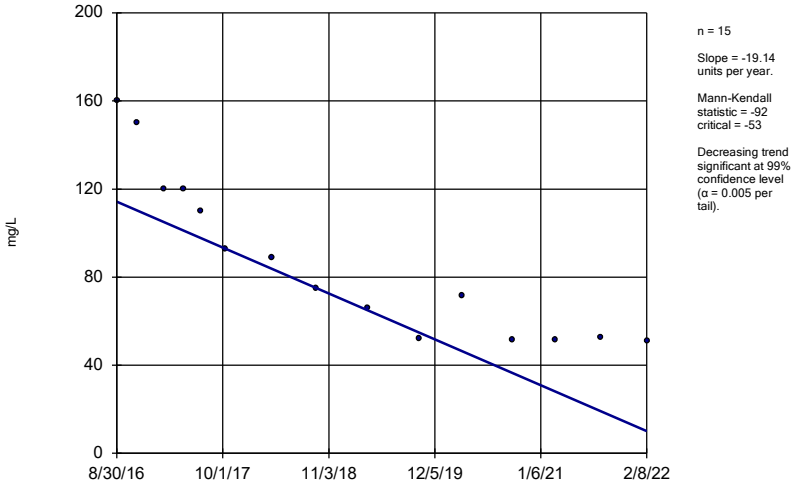
Mann-Kendall statistic = -77
critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -19.14 units per year.

Mann-Kendall statistic = -92 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

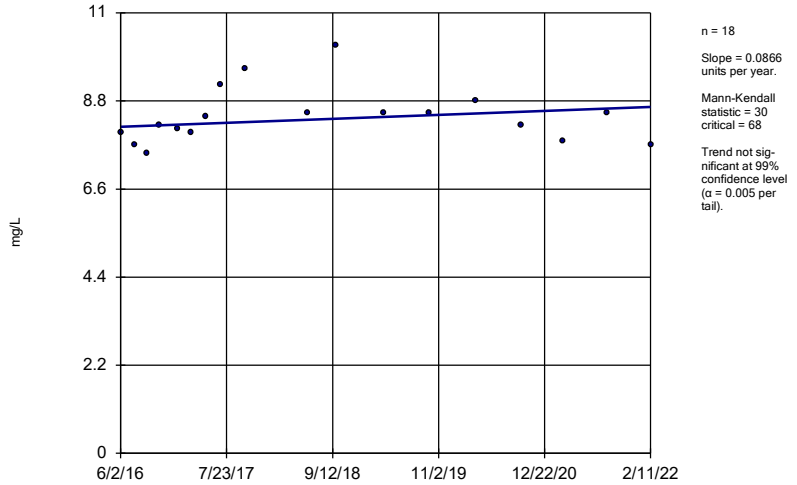
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.0866 units per year.

Mann-Kendall statistic = 30 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

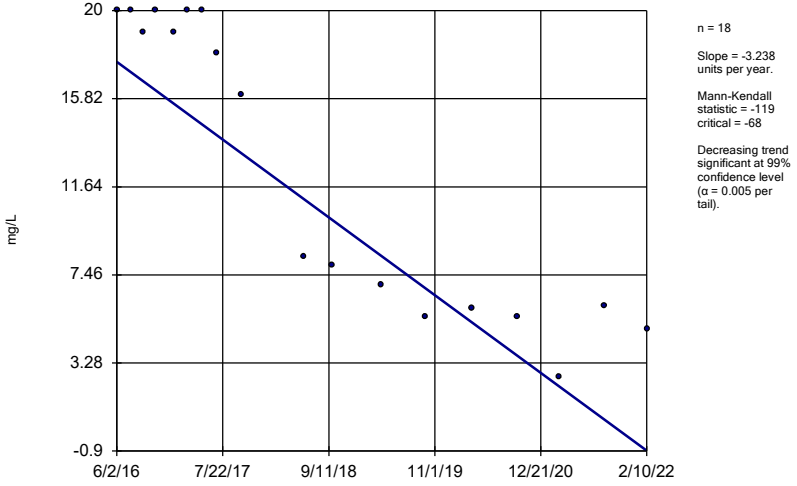
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -3.238 units per year.

Mann-Kendall statistic = -119 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

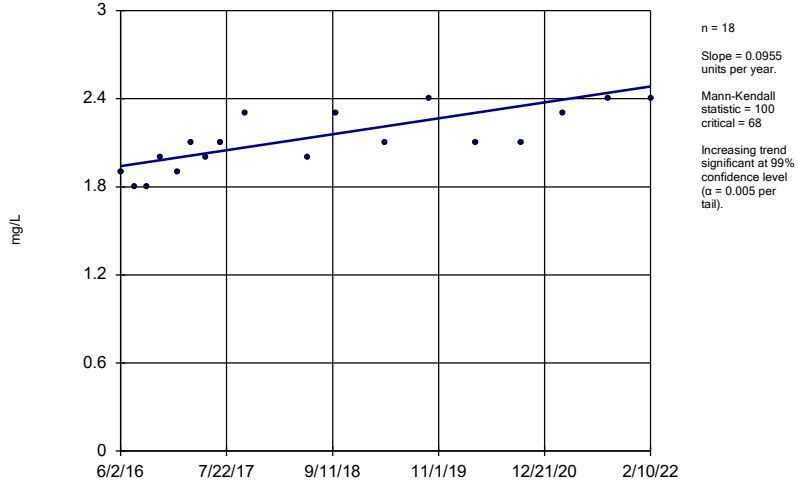
Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0.0955 units per year.

Mann-Kendall statistic = 100 critical = 68

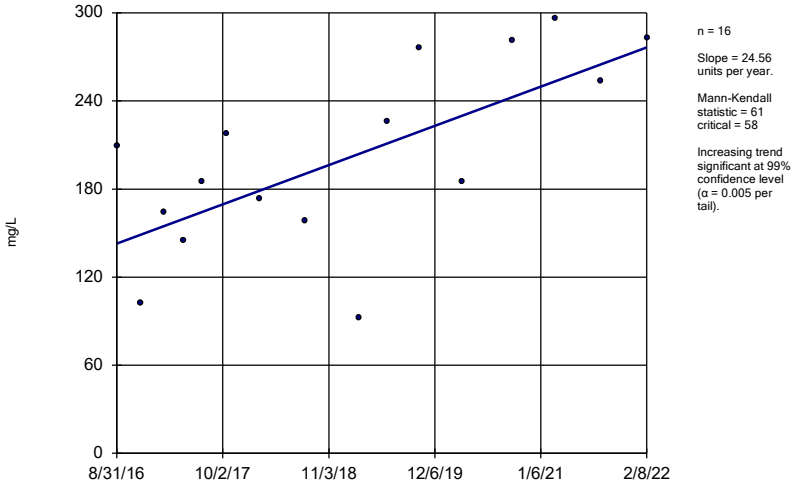
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 16

Slope = 24.56 units per year.

Mann-Kendall statistic = 61 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

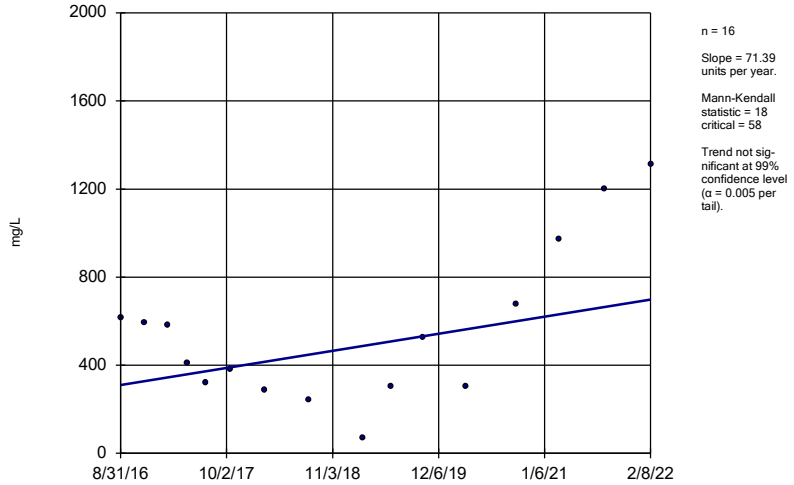
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 16

Slope = 71.39 units per year.

Mann-Kendall statistic = 18 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

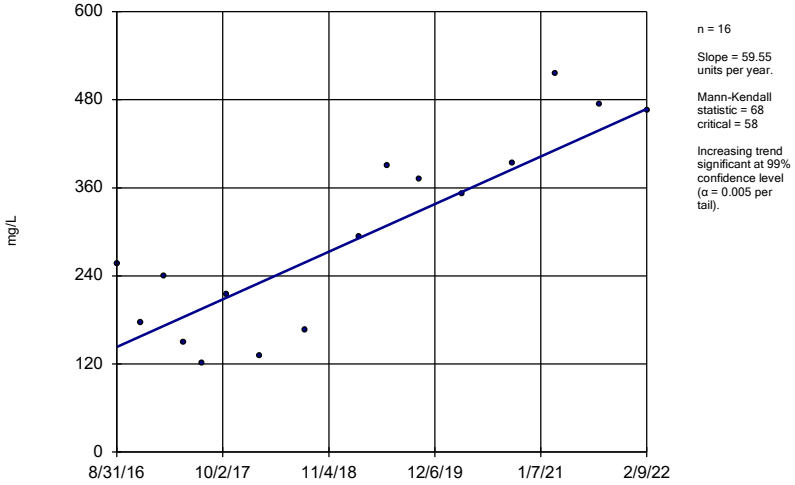
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 16

Slope = 59.55 units per year.

Mann-Kendall statistic = 68 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

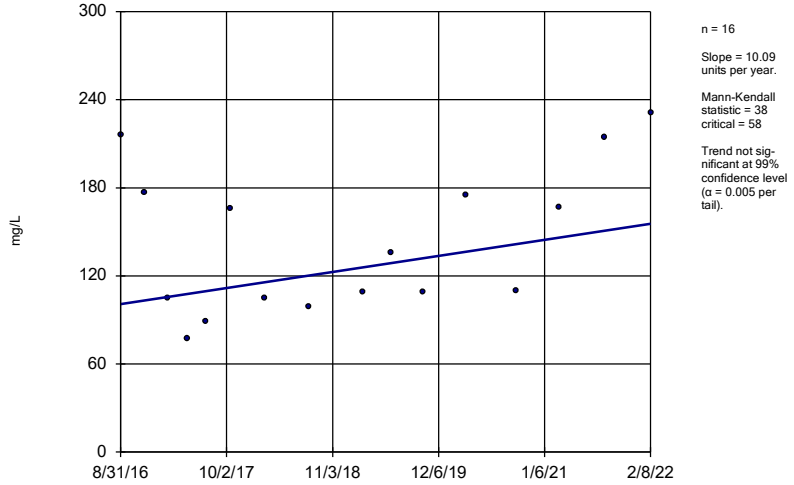
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-3R



n = 16

Slope = 10.09 units per year.

Mann-Kendall statistic = 38 critical = 58

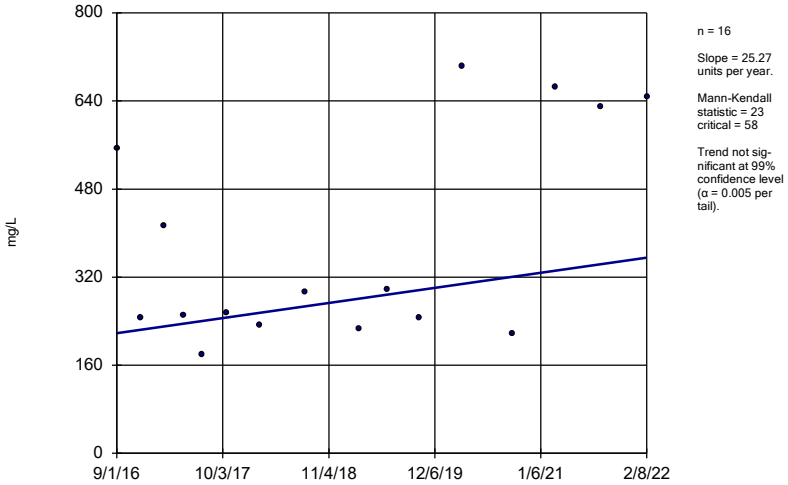
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-4R



n = 16

Slope = 25.27 units per year.

Mann-Kendall statistic = 23 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

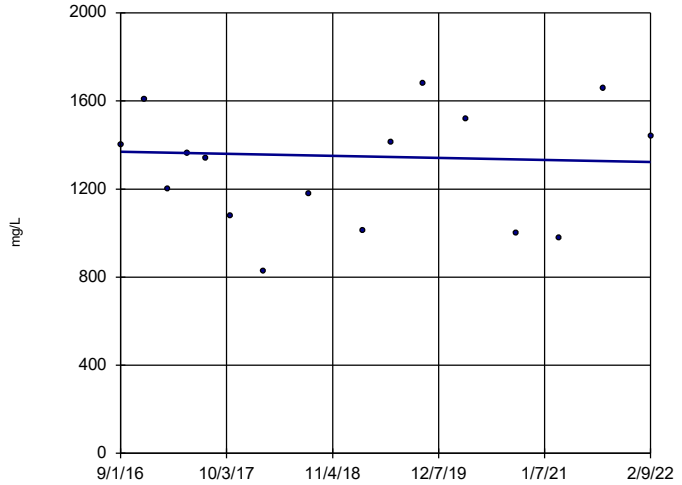
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-5R



n = 16

Slope = -8.549 units per year.

Mann-Kendall statistic = -2 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

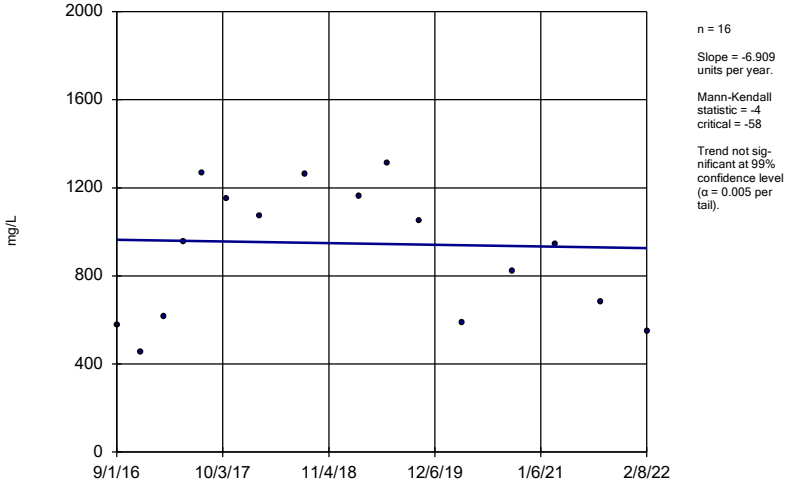
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 16

Slope = -6.909 units per year.

Mann-Kendall statistic = -4 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

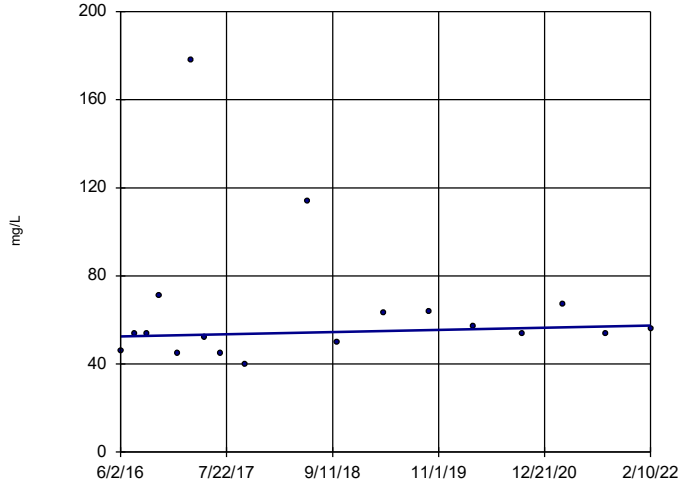
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 18

Slope = 0.8555 units per year.

Mann-Kendall statistic = 20 critical = 68

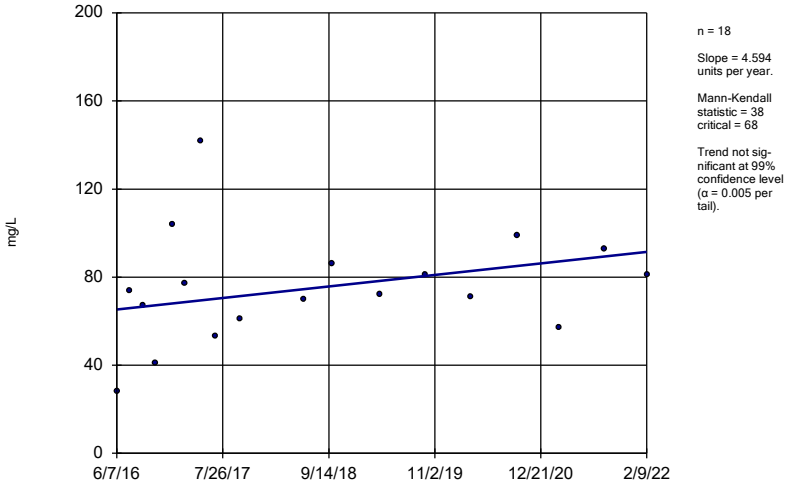
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 18

Slope = 4.594 units per year.

Mann-Kendall statistic = 38 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

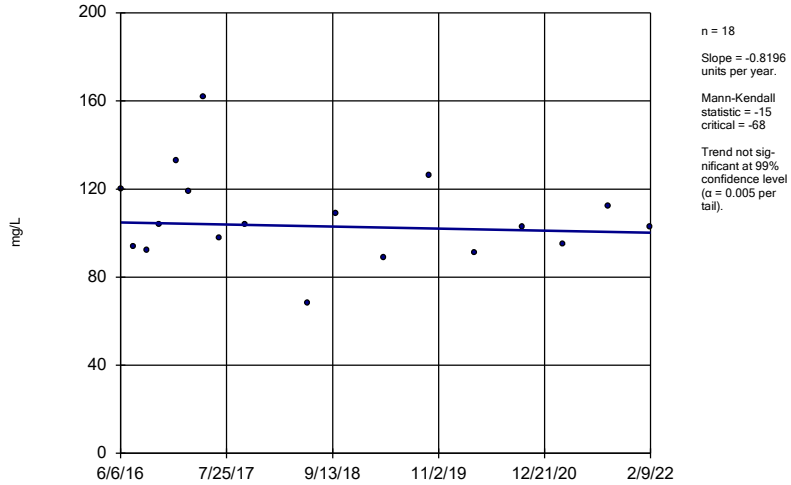
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 18

Slope = -0.8196 units per year.

Mann-Kendall statistic = -15 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

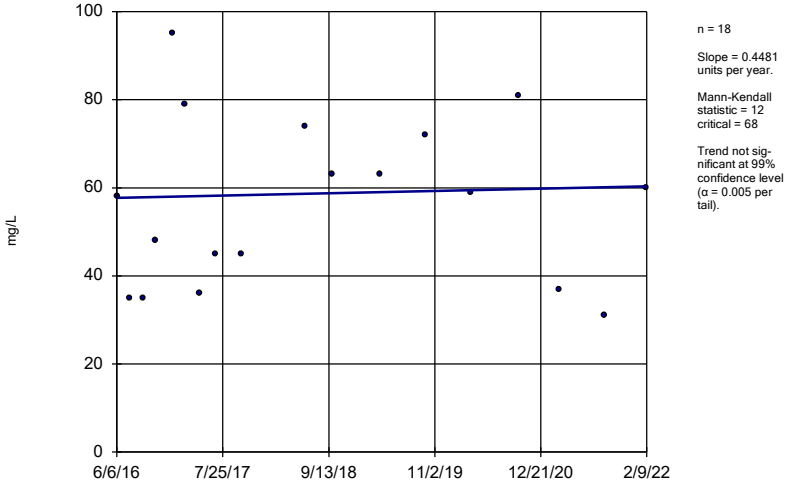
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 18

Slope = 0.4481 units per year.

Mann-Kendall statistic = 12 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

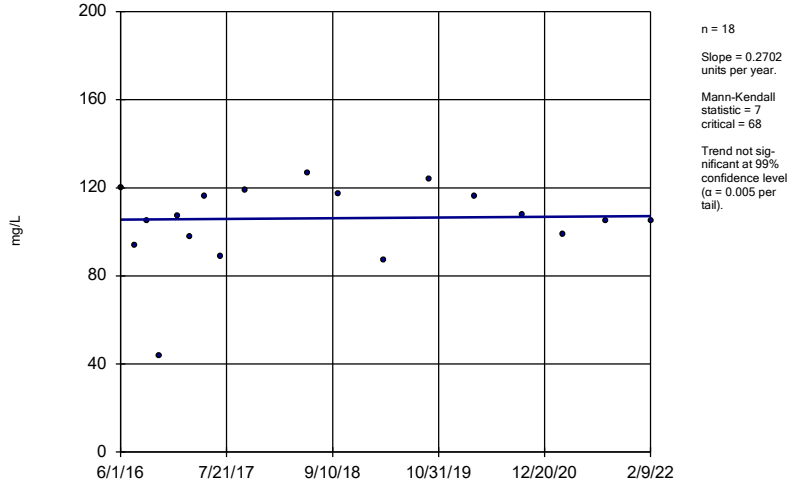
Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 18

Slope = 0.2702 units per year.

Mann-Kendall statistic = 7 critical = 68

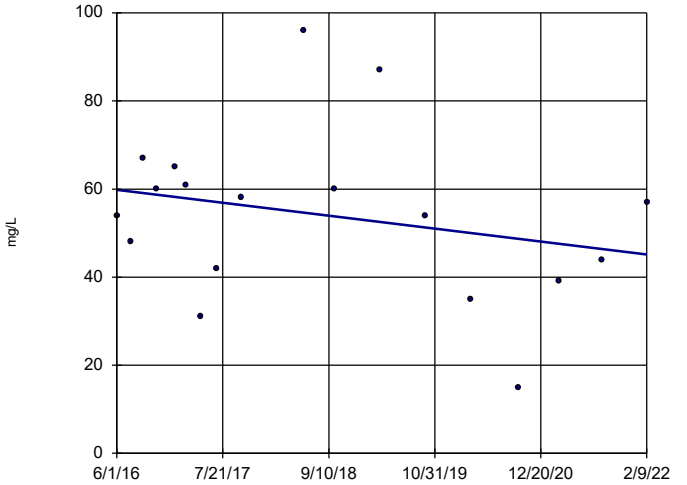
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:35 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 18

Slope = -2.568 units per year.

Mann-Kendall statistic = -31 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

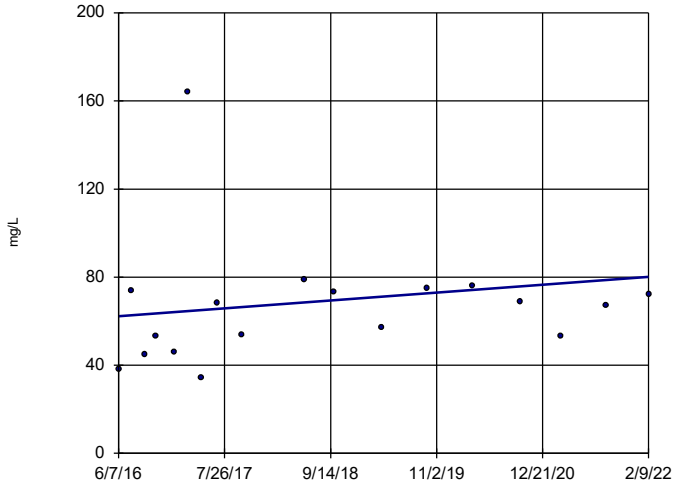
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 18

Slope = 3.147 units per year.

Mann-Kendall statistic = 36 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

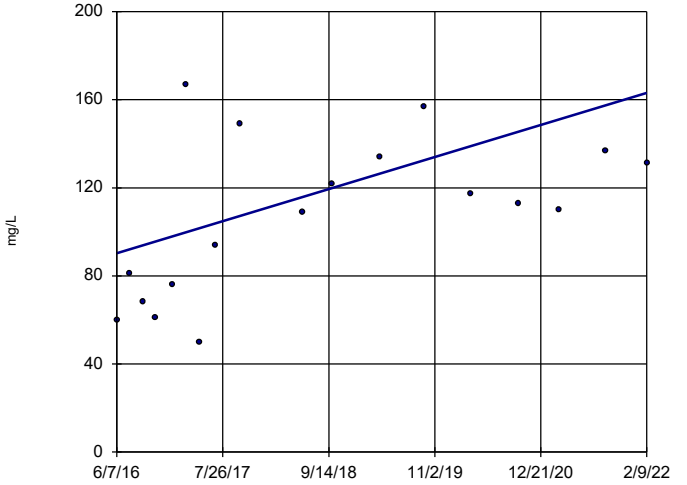
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 18

Slope = 12.83 units per year.

Mann-Kendall statistic = 63 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

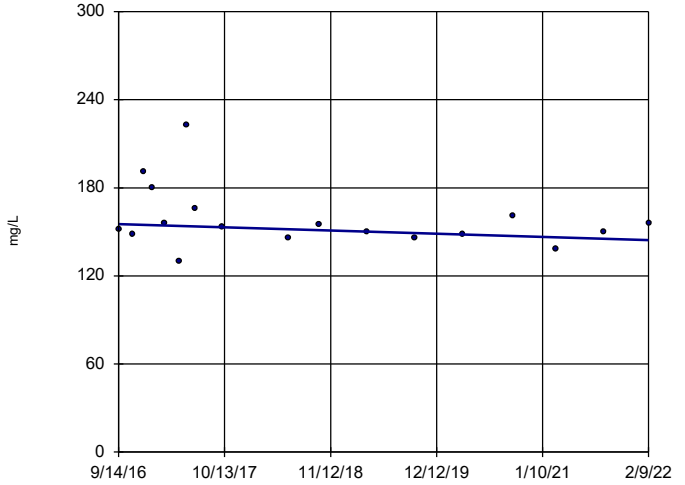
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 18

Slope = -2.032 units per year.

Mann-Kendall statistic = -29 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

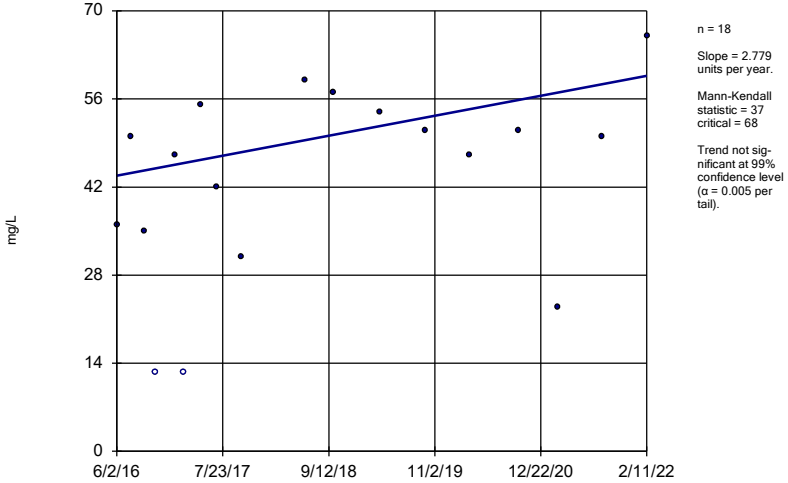
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 18

Slope = 2.779 units per year.

Mann-Kendall statistic = 37
critical = 68

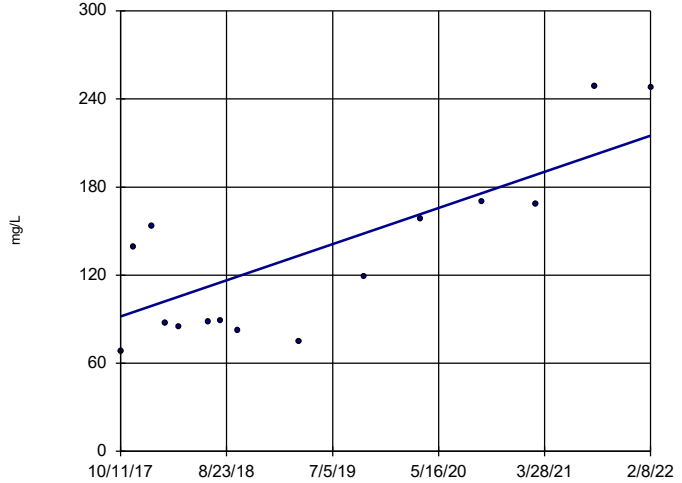
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 15

Slope = 28.42 units per year.

Mann-Kendall statistic = 53
critical = 53

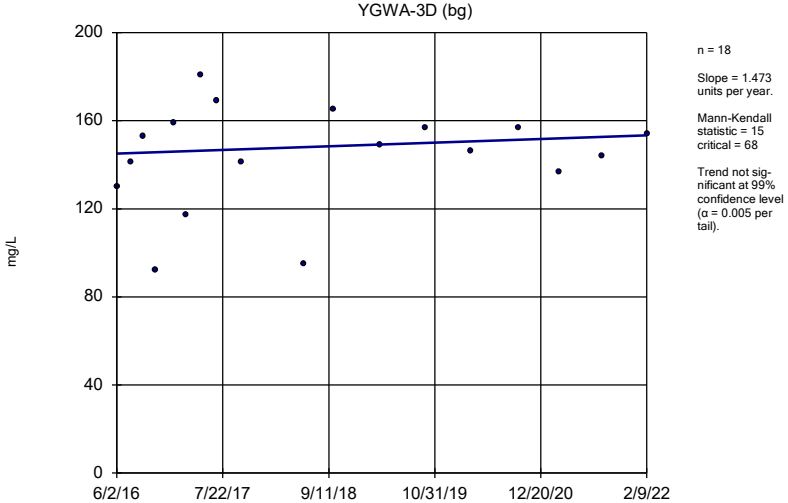
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 18

Slope = 1.473 units per year.

Mann-Kendall statistic = 15
critical = 68

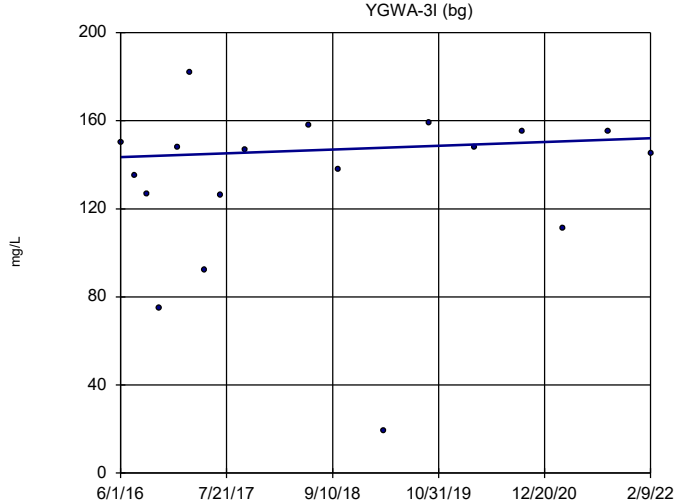
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 18

Slope = 1.513 units per year.

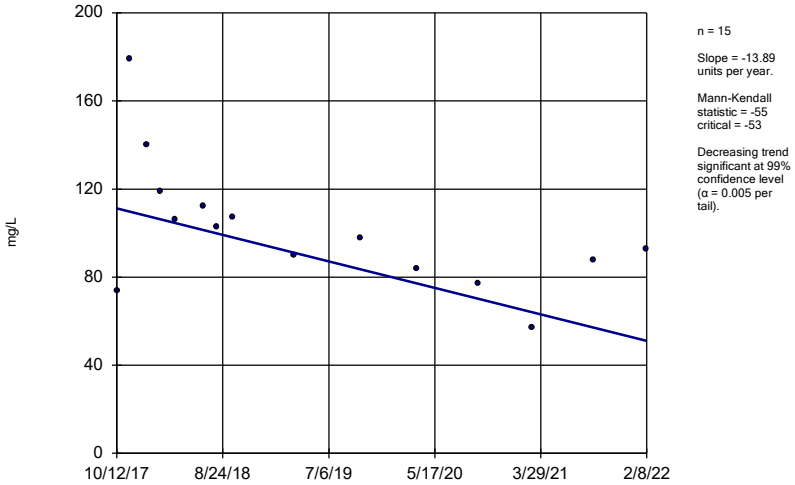
Mann-Kendall statistic = 13
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 15

Slope = -13.89 units per year.

Mann-Kendall statistic = -55 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

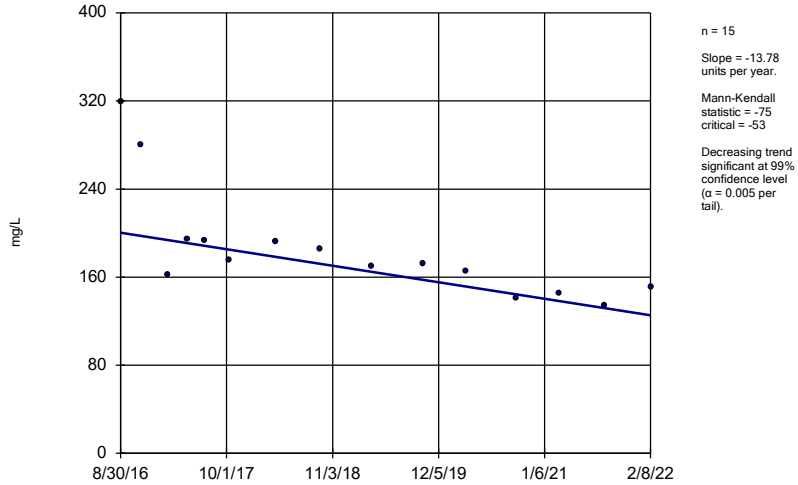
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = -13.78 units per year.

Mann-Kendall statistic = -75 critical = -53

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

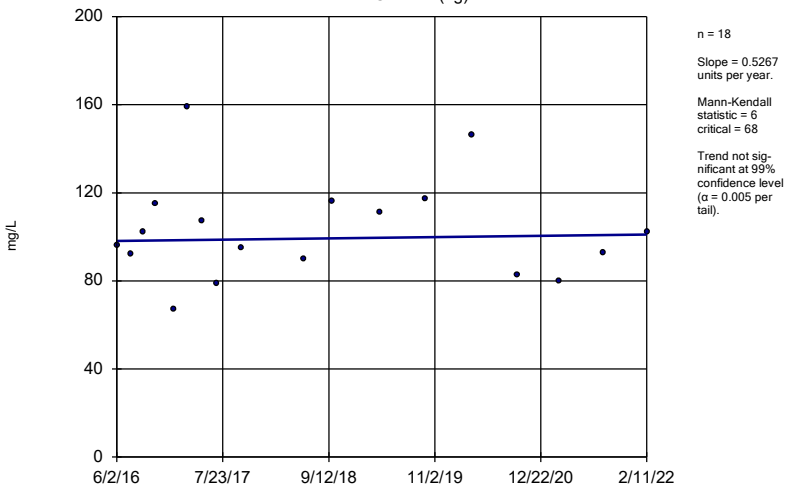
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 18

Slope = 0.5267 units per year.

Mann-Kendall statistic = 6 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

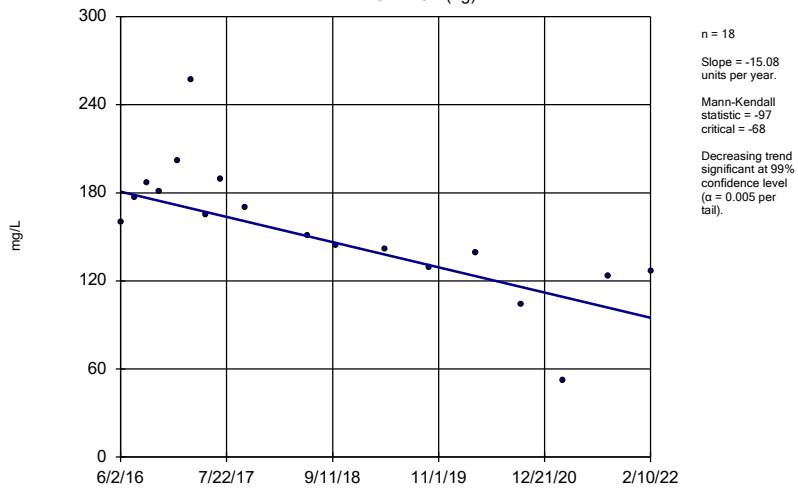
Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.32k Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 18

Slope = -15.08 units per year.

Mann-Kendall statistic = -97 critical = -68

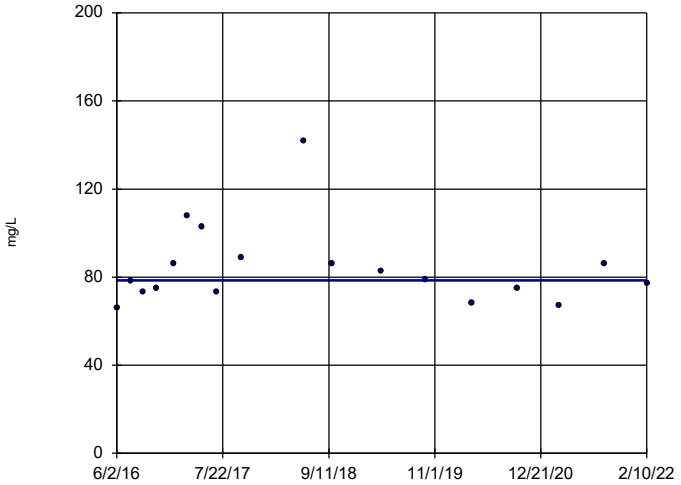
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 4/28/2022 8:36 AM View: Trend Tests - Intrawell Exceedances

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE K.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/18/2022, 11:22 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

FIGURE L.

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
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		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE M.

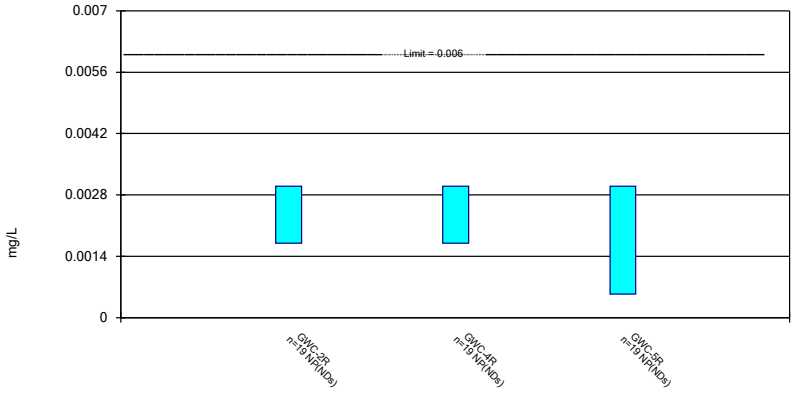
Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/29/2022, 12:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	19	0.002932	0.0002982	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	19	0.002574	0.0008915	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	19	0.002729	0.0008128	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	19	0.003649	0.001879	63.16	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	19	0.004571	0.001286	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	19	0.003937	0.001649	68.42	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	19	0.004329	0.001599	84.21	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0034	0.00092	0.01	No	19	0.002198	0.001626	21.05	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	19	0.003099	0.002088	52.63	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	19	0.05229	0.01826	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.05203	0.04338	2	No	19	0.04771	0.007385	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03093	0.0193	2	No	19	0.02512	0.009926	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	19	0.02464	0.008719	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	19	0.02035	0.01023	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.0681	0.04594	2	No	19	0.05702	0.01892	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	19	0.001054	0.00136	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	19	0.001512	0.001451	47.37	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007489	0.0003409	0.004	No	19	0.0006537	0.0006324	5.263	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	19	0.002385	0.001224	78.95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No	19	0.001723	0.001244	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	19	0.0003868	0.0001724	68.42	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	19	0.0003858	0.0001734	68.42	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	19	0.0003421	0.0001626	47.37	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	19	0.0004789	0.00009177	94.74	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009572	0.0005997	0.005	No	19	0.0007784	0.0003053	5.263	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.002	0.001	0.1	No	19	0.001968	0.001629	21.05	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	19	0.004072	0.001848	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.001	0.1	No	19	0.001958	0.001631	21.05	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	19	0.003904	0.001891	73.68	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0024	0.0019	0.1	No	19	0.002305	0.000713	5.263	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	19	0.001952	0.001373	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	19	0.002065	0.001907	26.32	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02031	0.009546	0.035	No	19	0.01493	0.009193	5.263	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	19	0.005779	0.002516	57.89	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.002496	0.0008122	0.035	No	19	0.002387	0.002132	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	19	0.003561	0.002178	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.01	0.5585	6.92	No	15	0.7843	0.3332	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.408	0.6141	6.92	No	15	1.011	0.5856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.013	0.2541	6.92	No	15	0.6985	0.6837	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5943	0.2135	6.92	No	15	0.4039	0.2809	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8515	0.2519	6.92	No	15	0.5974	0.435	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.062	0.4275	6.92	No	15	0.7816	0.5574	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	18	0.08944	0.02071	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	18	0.1156	0.1182	72.22	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.16	0.07	4	No	18	0.1302	0.1216	38.89	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	18	0.09889	0.01967	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.053	4	No	18	0.1101	0.09489	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	18	0.1011	0.04981	77.78	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0012	0.04	No	16	0.00689	0.01147	18.75	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.04	No	16	0.008962	0.01045	18.75	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.001	0.04	No	16	0.02275	0.01297	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.04	No	16	0.02097	0.01384	68.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.04	No	16	0.01576	0.01471	50	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.04	No	16	0.009644	0.01226	25	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	19	0.0001926	0.00003235	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	19	0.0001932	0.00002959	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	19	0.0001951	0.00007665	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	19	0.0001925	0.00003258	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	19	0.0001926	0.00003212	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	19	0.0001831	0.00005156	89.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	19	0.006274	0.005851	21.05	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2R	0.00365	0.002455	0.05	No	19	0.003053	0.001021	10.53	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.00692	0.002946	0.05	No	19	0.005579	0.004227	15.79	Kaplan-Meier	x^(1/3)	0.01	Param.
Selenium (mg/L)	GWC-4R	0.0047	0.0029	0.05	No	19	0.004684	0.002752	5.263	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.02585	0.01822	0.05	No	19	0.02204	0.00652	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.003618	0.002236	0.05	No	19	0.003011	0.00113	15.79	Kaplan-Meier	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	19	0.0009511	0.0002134	94.74	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	19	0.0009502	0.0002173	94.74	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

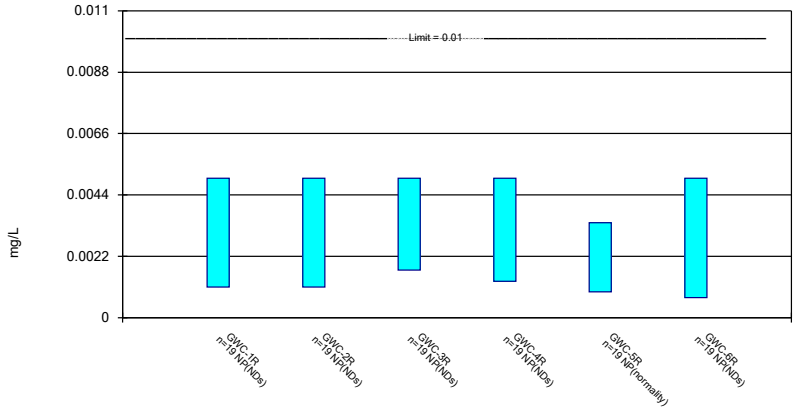
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

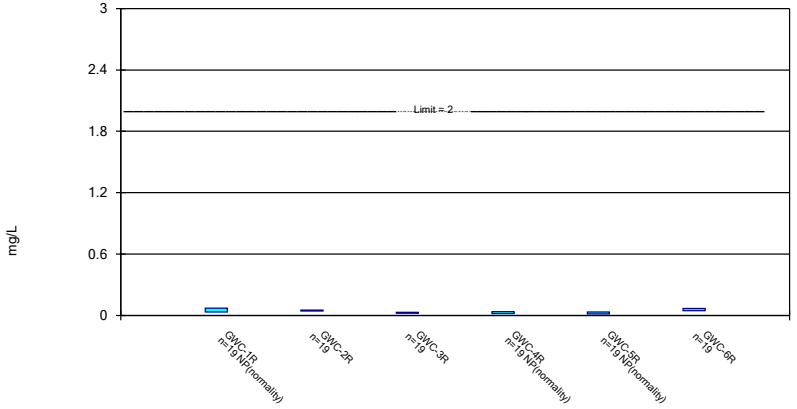
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

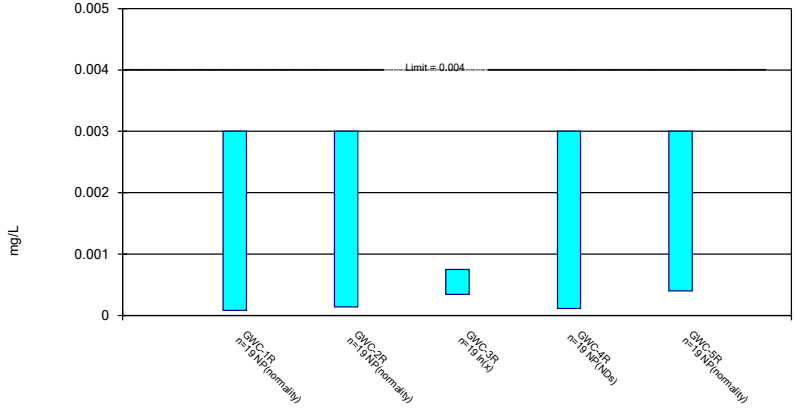
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

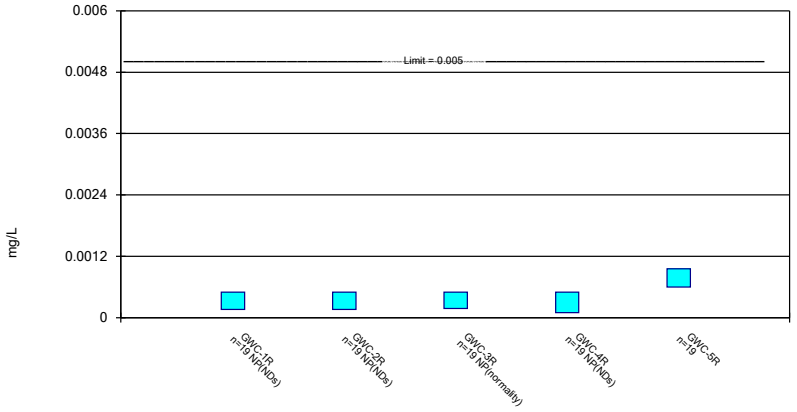
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

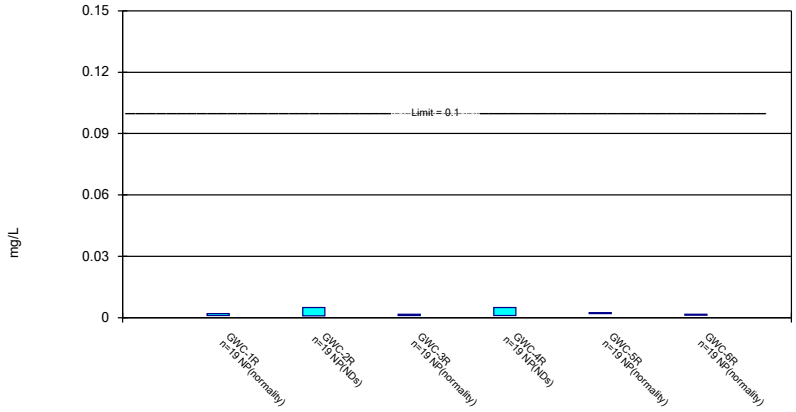


Constituent: Cadmium Analysis Run 4/29/2022 12:31 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

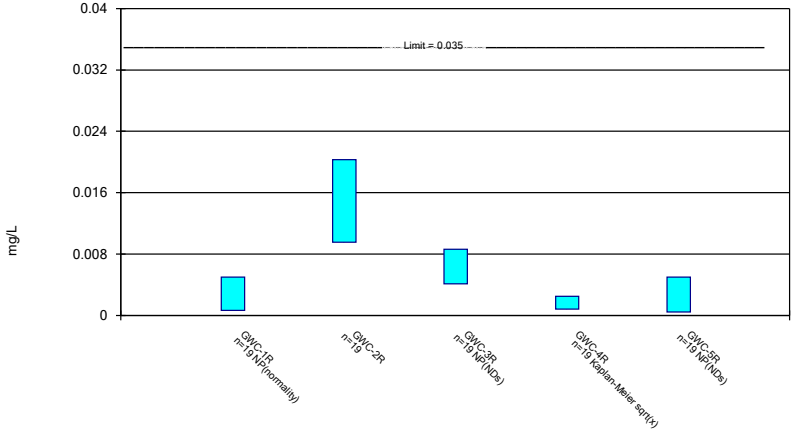


Constituent: Chromium Analysis Run 4/29/2022 12:31 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

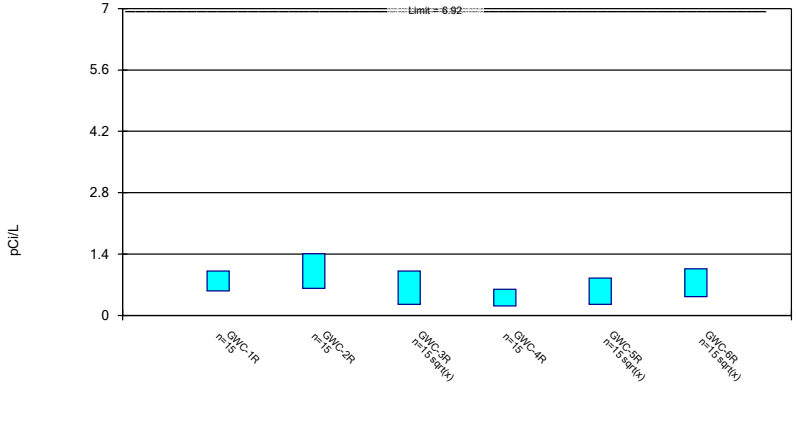


Constituent: Cobalt Analysis Run 4/29/2022 12:31 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

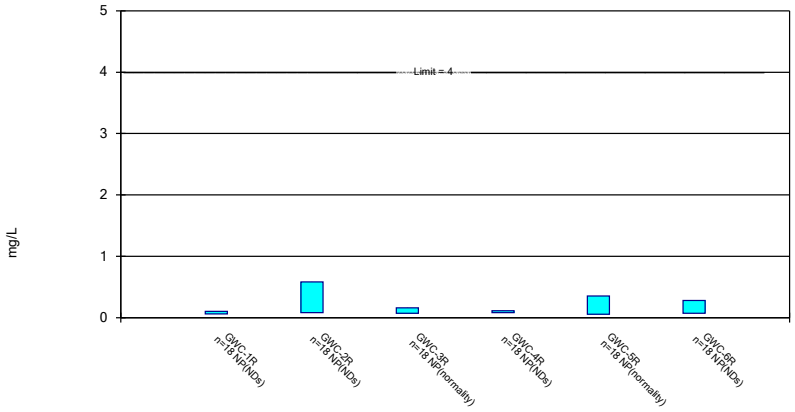


Constituent: Combined Radium 226 + 228 Analysis Run 4/29/2022 12:31 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

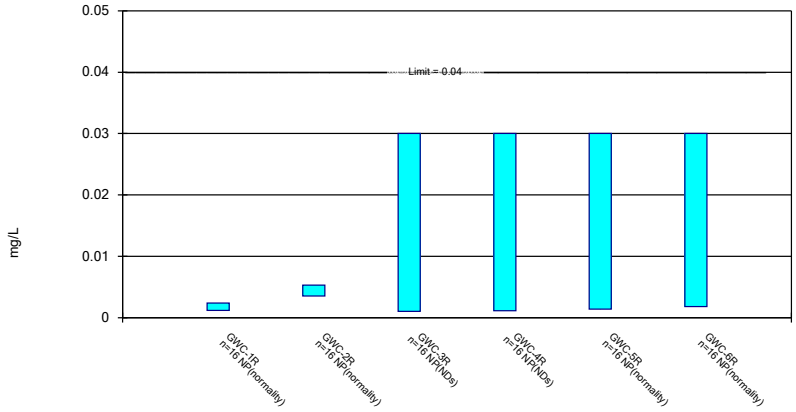
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

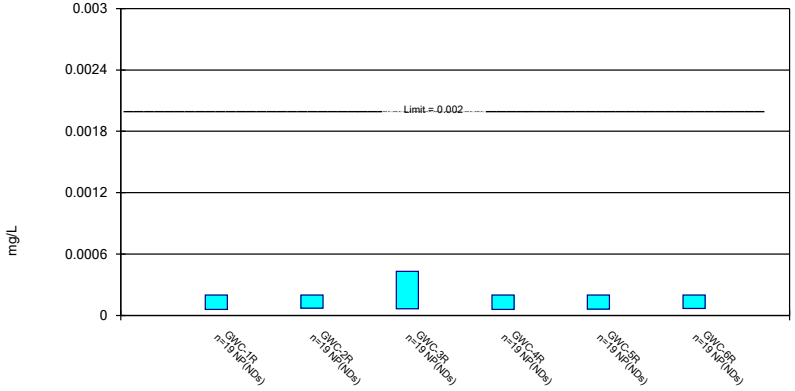
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lithium Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

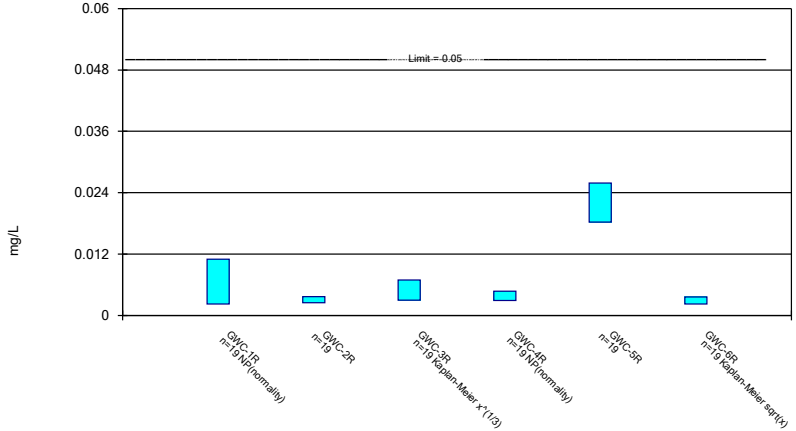
Compliance Limit is not exceeded. Per-well alpha = 0.01.



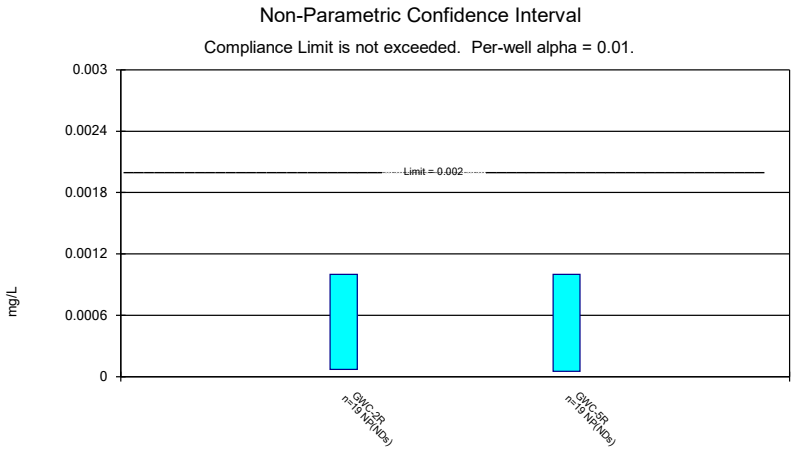
Constituent: Mercury Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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: Selenium Analysis Run 4/29/2022 12:31 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



Constituent: Thallium Analysis Run 4/29/2022 12:31 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
2/16/2016		<0.003	<0.003
2/17/2016	<0.003		
8/31/2016	<0.003		
9/1/2016		0.0014 (J)	<0.003
11/28/2016	<0.003		
11/30/2016		<0.003	
12/1/2016			<0.003
2/22/2017	<0.003		
2/24/2017		<0.003	<0.003
5/10/2017	<0.003	<0.003	<0.003
7/17/2017			<0.003
7/18/2017	<0.003	<0.003	
10/16/2017			<0.003
10/17/2017	<0.003	<0.003	
2/20/2018	<0.003	<0.003	
2/21/2018			<0.003
8/7/2018			<0.003
8/8/2018	<0.003	<0.003	
2/26/2019	<0.003	<0.003	<0.003
6/12/2019	<0.003	0.00028 (J)	
6/13/2019			<0.003
8/19/2019		<0.003	
8/20/2019	<0.003		
8/21/2019			0.00054 (J)
10/9/2019	<0.003		<0.003
10/10/2019		<0.003	
3/18/2020	<0.003	<0.003	<0.003
8/27/2020			<0.003
8/28/2020	<0.003	<0.003	
9/22/2020	0.0017 (J)	0.00053 (J)	
9/23/2020			0.00031 (J)
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/18/2021	<0.003	<0.003	<0.003
2/8/2022		0.0017 (J)	
2/9/2022	<0.003		<0.003
Mean	0.002932	0.002574	0.002729
Std. Dev.	0.0002982	0.0008915	0.0008128
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.0017	0.00054

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016		<0.005				
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
3/17/2020	<0.005		0.0016 (J)			<0.005
3/18/2020		<0.005		<0.005	0.0008 (J)	
8/27/2020	0.0011 (J)				0.0016 (J)	0.0011 (J)
8/28/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005	<0.005	<0.005		
9/23/2020					0.00092 (J)	<0.005
3/1/2021	0.0022 (J)	0.0011 (J)		<0.005		
3/2/2021			0.0017 (J)		0.0024 (J)	
3/3/2021						<0.005
8/18/2021	0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005
2/8/2022	0.0026 (J)		0.0015 (J)	0.0013 (J)		<0.005
2/9/2022		<0.005			0.0034 (J)	
Mean	0.003649	0.004571	0.003937	0.004329	0.002198	0.003099
Std. Dev.	0.001879	0.001286	0.001649	0.001599	0.001626	0.002088
Upper Lim.	0.005	0.005	0.005	0.005	0.0034	0.005
Lower Lim.	0.0011	0.0011	0.0017	0.0013	0.00092	0.00072

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	0.044		0.038	0.032	0.04	0.068
2/17/2016		0.059				
8/31/2016	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
3/17/2020	0.031		0.024			0.031
3/18/2020		0.04		0.038	0.015	
8/27/2020	0.072				0.013	0.045
8/28/2020		0.044	0.014	0.026		
9/22/2020	0.068	0.04	0.014	0.026		
9/23/2020					0.012	0.044
3/1/2021	0.063	0.043		0.035		
3/2/2021			0.015		0.011	
3/3/2021						0.043
8/18/2021	0.076	0.033	0.014	0.04	0.013	0.035
2/8/2022	0.066		0.013	0.031		0.03
2/9/2022		0.038			0.011	
Mean	0.05229	0.04771	0.02512	0.02464	0.02035	0.05702
Std. Dev.	0.01826	0.007385	0.009926	0.008719	0.01023	0.01892
Upper Lim.	0.0711	0.05203	0.03093	0.035	0.0345	0.0681
Lower Lim.	0.0322	0.04338	0.0193	0.017	0.013	0.04594

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.003		0.00084 (J)	<0.003	0.00048 (J)
2/17/2016		<0.003			
8/31/2016	0.0001 (J)	<0.003	0.0003 (J)		
9/1/2016				<0.003	0.0005 (J)
11/28/2016		<0.003			
11/29/2016	<0.003				
11/30/2016			0.0004 (J)	<0.003	
12/1/2016					0.0003 (J)
2/22/2017		<0.003			
2/23/2017	<0.003		0.0003 (J)		
2/24/2017				<0.003	0.0002 (J)
5/9/2017	8E-05 (J)		0.0002 (J)		
5/10/2017		<0.003		<0.003	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003	
10/16/2017					0.0006 (J)
10/17/2017	0.0001 (J)	<0.003		<0.003	
10/18/2017			0.0004 (J)		
2/20/2018		<0.003		<0.003	
2/21/2018	<0.003		<0.003		<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018		7E-05 (J)		<0.003	
2/26/2019	7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.003	0.0015 (J)
6/12/2019		<0.003		<0.003	
6/13/2019	<0.003		0.00051 (J)		0.0015 (J)
8/19/2019				<0.003	
8/20/2019	0.0001 (J)	0.00017 (J)			
8/21/2019			0.00046 (J)		0.0028 (J)
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019			0.00039 (J)	<0.003	
3/17/2020	7.6E-05 (J)		0.00095 (J)		
3/18/2020		0.00012 (J)		<0.003	0.0028 (J)
8/27/2020	0.00024 (J)				0.0023 (J)
8/28/2020		0.0002 (J)	0.0005 (J)	<0.003	
9/22/2020	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020					0.0023 (J)
3/1/2021	0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021			0.00081		0.0037
8/18/2021	0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
2/8/2022	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022		0.00023 (J)			0.0036
Mean	0.001054	0.001512	0.0006537	0.002385	0.001723
Std. Dev.	0.00136	0.001451	0.0006324	0.001224	0.001244
Upper Lim.	0.003	0.003	0.0007489	0.003	0.003
Lower Lim.	8E-05	0.00014	0.0003409	0.00011	0.0004

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)
2/17/2016		<0.0005			
8/31/2016	<0.0005	0.0001 (J)	<0.0005		
9/1/2016				0.0001 (J)	0.0005 (J)
11/28/2016		0.0001 (J)			
11/29/2016	8E-05 (J)				
11/30/2016			<0.0005	<0.0005	
12/1/2016					0.0004 (J)
2/22/2017		<0.0005			
2/23/2017	<0.0005		<0.0005		
2/24/2017				<0.0005	0.0003 (J)
5/9/2017	<0.0005		<0.0005		
5/10/2017		<0.0005		<0.0005	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	
10/16/2017					0.0006 (J)
10/17/2017	<0.0005	<0.0005		<0.0005	
10/18/2017			<0.0005		
2/20/2018		<0.0005		<0.0005	
2/21/2018	<0.0005		<0.0005		<0.0005
8/7/2018	<0.0005		<0.0005		0.00083 (J)
8/8/2018		<0.0005		<0.0005	
2/26/2019	<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)
6/12/2019		<0.0005		<0.0005	
6/13/2019	<0.0005		0.00021 (J)		0.00073 (J)
8/19/2019				<0.0005	
8/20/2019	<0.0005	<0.0005			
8/21/2019			<0.0005		0.0012 (J)
10/9/2019	<0.0005	<0.0005			0.0011 (J)
10/10/2019			0.00018 (J)	<0.0005	
3/17/2020	<0.0005		0.00037 (J)		
3/18/2020		<0.0005		<0.0005	0.0012 (J)
8/27/2020	0.00012 (J)				0.00091 (J)
8/28/2020		0.00015 (J)	0.00014 (J)	<0.0005	
9/22/2020	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005	
9/23/2020					0.00094 (J)
3/1/2021	0.00013 (J)	0.00016 (J)		<0.0005	
3/2/2021			0.00021 (J)		0.0011
8/18/2021	0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001
2/8/2022	0.00019 (J)		0.00018 (J)	<0.0005	
2/9/2022		<0.0005			0.001
Mean	0.0003868	0.0003858	0.0003421	0.0004789	0.0007784
Std. Dev.	0.0001724	0.0001734	0.0001626	9.177E-05	0.0003053
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0009572
Lower Lim.	0.00016	0.00016	0.00018	0.0001	0.0005997

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		0.0017	<0.005	0.0028	0.001 (J)
2/17/2016		<0.005				
8/31/2016	0.0012 (J)	<0.005	0.0013 (J)			
9/1/2016				<0.005	0.0021 (J)	0.0015 (J)
11/28/2016		<0.005				
11/29/2016	0.0009 (J)					0.0014 (J)
11/30/2016			0.001 (J)	0.0013 (J)		
12/1/2016					0.0017 (J)	
2/22/2017		<0.005				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.005	0.0018 (J)	
5/9/2017	0.0011 (J)		0.0016 (J)			
5/10/2017		0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)
7/17/2017					0.0017 (J)	
7/18/2017	0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.005		<0.005		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		0.0024 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.0019 (J)	
6/12/2019		<0.005		<0.005		
6/13/2019	0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)
8/19/2019				0.00051 (J)		
8/20/2019	0.0011 (J)	<0.005				0.0017 (J)
8/21/2019			0.001 (J)		0.0024 (J)	
10/8/2019						0.0014 (J)
10/9/2019	0.0012 (J)	0.00059 (J)			0.0024 (J)	
10/10/2019			0.0014 (J)	0.00057 (J)		
3/17/2020	0.001 (J)		0.0013 (J)			0.0013 (J)
3/18/2020		0.0004 (J)		<0.005	0.0023 (J)	
8/27/2020	0.0013 (J)				0.0022 (J)	0.0012 (J)
8/28/2020		0.00057 (J)	0.00088 (J)	<0.005		
9/22/2020	0.0012 (J)	<0.005	0.0011 (J)	<0.005		
9/23/2020					0.002 (J)	0.0015 (J)
3/1/2021	0.0012 (J)	<0.005		<0.005		
3/2/2021			0.001 (J)		0.0021 (J)	
3/3/2021						0.0014 (J)
8/18/2021	0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)
2/8/2022	0.002 (J)		0.0011 (J)	<0.005		0.0017 (J)
2/9/2022		<0.005			0.0022 (J)	
Mean	0.001968	0.004072	0.001958	0.003904	0.002305	0.001952
Std. Dev.	0.001629	0.001848	0.001631	0.001891	0.000713	0.001373
Upper Lim.	0.002	0.005	0.0017	0.005	0.0024	0.0017
Lower Lim.	0.001	0.0008	0.001	0.0011	0.0019	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.005		<0.005	0.0082	<0.005
2/17/2016		0.024			
8/31/2016	0.0006 (J)	0.0239	<0.005		
9/1/2016				0.0023 (J)	<0.005
11/28/2016		0.0189			
11/29/2016	<0.005				
11/30/2016			<0.005	0.0008 (J)	
12/1/2016					<0.005
2/22/2017		0.0184			
2/23/2017	0.0009 (J)		<0.005		
2/24/2017				0.0025 (J)	<0.005
5/9/2017	0.0008 (J)		<0.005		
5/10/2017		0.0213		<0.005	<0.005
7/17/2017					<0.005
7/18/2017	0.0032 (J)	0.0261	<0.005	0.0005 (J)	
10/16/2017					<0.005
10/17/2017	0.0007 (J)	0.0182		0.0006 (J)	
10/18/2017			<0.005		
2/20/2018		<0.005		<0.005	
2/21/2018	<0.005		<0.005		<0.005
8/7/2018	<0.005		<0.005		<0.005
8/8/2018		0.014		0.001 (J)	
2/26/2019	<0.005	0.029	<0.005	<0.005	<0.005
6/12/2019		0.013		0.00078 (J)	
6/13/2019	0.00033 (J)		0.01		<0.005
8/19/2019				0.001 (J)	
8/20/2019	0.00079 (J)	0.014			
8/21/2019			0.0016 (J)		0.00034 (J)
10/9/2019	0.00064 (J)	0.024			0.00031 (J)
10/10/2019			<0.005	0.00099 (J)	
3/17/2020	0.00054 (J)		0.011		
3/18/2020		0.019		0.0031 (J)	0.00044 (J)
8/27/2020	0.00081 (J)				<0.005
8/28/2020		0.0072	0.0041 (J)	0.00049 (J)	
9/22/2020	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)	
9/23/2020					<0.005
3/1/2021	0.00083 (J)	0.00074 (J)		0.0016 (J)	
3/2/2021			0.0086		0.00039 (J)
8/18/2021	0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)
2/8/2022	0.0019 (J)		0.0074	0.0034 (J)	
2/9/2022		0.00085 (J)			0.00064 (J)
Mean	0.002065	0.01493	0.005779	0.002387	0.003561
Std. Dev.	0.001907	0.009193	0.002516	0.002132	0.002178
Upper Lim.	0.005	0.02031	0.0086	0.002496	0.005
Lower Lim.	0.00064	0.009546	0.0041	0.0008122	0.00044

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
11/28/2016		0.387 (U)				
11/29/2016	0.551 (U)					0.232 (U)
11/30/2016			0.0236 (U)	0.477 (U)		
12/1/2016					0.0588 (U)	
2/22/2017		0.739 (U)				
2/23/2017	0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017				0.305 (U)	0.487 (U)	
5/9/2017	0.434 (U)		0.0367 (U)			
5/10/2017		0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017					0.528 (U)	
7/18/2017	1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017					0.558 (U)	
10/17/2017	0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017			0.706 (U)			0.239 (U)
2/19/2018						0.973 (D)
2/20/2018		1.64 (D)		1.03 (UD)		
2/21/2018	0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018						0.866 (U)
8/7/2018	0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018		2.01		0.0378 (U)		
8/19/2019				0.637 (U)		
8/20/2019	1.25 (U)	1.22				0.409 (U)
8/21/2019			0.774 (U)		1.82	
10/8/2019						0.91 (U)
10/9/2019	0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019			0.433 (U)	0.525 (U)		
3/17/2020	1.4		2.84			2.5
3/18/2020		1.3		0.866 (U)	0.788 (U)	
8/27/2020	0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020		1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020					0 (U)	0.96 (U)
3/1/2021	0.966 (U)	0.976		0.349 (U)		
3/2/2021			1.13 (U)		0.686 (U)	
3/3/2021						0.721 (U)
8/18/2021	0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
2/8/2022	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022		0.42 (U)			0.48 (U)	
Mean	0.7843	1.011	0.6985	0.4039	0.5974	0.7816
Std. Dev.	0.3332	0.5856	0.6837	0.2809	0.435	0.5574
Upper Lim.	1.01	1.408	1.013	0.5943	0.8515	1.062
Lower Lim.	0.5585	0.6141	0.2541	0.2135	0.2519	0.4275

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016				0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016		0.03 (J)				
11/29/2016	0.04 (J)					0.05 (J)
11/30/2016			0.03 (J)	0.11 (J)		
12/1/2016					<0.1	
2/22/2017		0.04 (J)				
2/23/2017	0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017				0.08 (J)	0.03 (J)	
5/9/2017	0.06 (J)		<0.1			
5/10/2017		0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017					<0.1	
10/17/2017	<0.1	<0.1		<0.1		
10/18/2017			0.22 (J)			<0.1
2/19/2018						<0.1
2/20/2018		<0.1		<0.1		
2/21/2018	<0.1		<0.1		<0.1	
8/6/2018						<0.1
8/7/2018	<0.1		<0.1		<0.1	
8/8/2018		<0.1		<0.1		
2/25/2019						<0.1
2/26/2019	<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019		0.58		<0.1		
6/13/2019	<0.1		0.58		<0.1	<0.1
8/19/2019				<0.1		
8/20/2019	<0.1	<0.1				<0.1
8/21/2019			0.037 (J)		<0.1	
10/8/2019						<0.1
10/9/2019	<0.1	<0.1			0.35	
10/10/2019			<0.1	<0.1		
3/17/2020	<0.1		0.1 (J)			<0.1
3/18/2020		<0.1		<0.1	<0.1	
8/27/2020	<0.1				0.064 (J)	<0.1
8/28/2020		<0.1	0.097 (J)	<0.1		
9/22/2020	<0.1	<0.1	<0.1	<0.1		
9/23/2020					<0.1	<0.1
3/1/2021	<0.1	<0.1		<0.1		
3/2/2021			0.15		0.094 (J)	
3/3/2021						<0.1
8/18/2021	<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
2/8/2022	<0.1		0.16	<0.1		<0.1
2/9/2022		<0.1			0.053 (J)	
Mean	0.08944	0.1156	0.1302	0.09889	0.1101	0.1011
Std. Dev.	0.02071	0.1182	0.1216	0.01967	0.09489	0.04981
Upper Lim.	0.1	0.58	0.16	0.11	0.35	0.28
Lower Lim.	0.06	0.08	0.07	0.08	0.053	0.07

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0024 (J)	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
11/28/2016		<0.03				
11/29/2016	<0.03					<0.03
11/30/2016			<0.03	<0.03		
12/1/2016					<0.03	
2/22/2017		0.0036 (J)				
2/23/2017	<0.03		<0.03			0.0028 (J)
2/24/2017				<0.03	<0.03	
5/9/2017	0.002 (J)		<0.03			
5/10/2017		0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017					<0.03	
7/18/2017	<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017					<0.03	
10/17/2017	0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017			<0.03			0.0026 (J)
2/19/2018						<0.03
2/20/2018		<0.03		<0.03		
2/21/2018	0.0014 (J)		<0.03		<0.03	
8/6/2018						<0.03
8/7/2018	0.001 (J)		<0.03		<0.03	
8/8/2018		0.0031 (J)		<0.03		
8/19/2019				0.00094 (J)		
8/20/2019	0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019			<0.03		0.0015 (J)	
10/8/2019						0.0021 (J)
10/9/2019	0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019			<0.03	0.0013 (J)		
3/17/2020	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020		0.0053 (J)		<0.03	0.0017 (J)	
8/27/2020	0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020		0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020					0.0012 (J)	0.0023 (J)
3/1/2021	0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021			0.00088 (J)		0.0016 (J)	
3/3/2021						0.0018 (J)
8/18/2021	0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
2/8/2022	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022		0.0042 (J)			0.0018 (J)	
Mean	0.00689	0.008962	0.02275	0.02097	0.01576	0.009644
Std. Dev.	0.01147	0.01045	0.01297	0.01384	0.01471	0.01226
Upper Lim.	0.0024	0.0053	0.03	0.03	0.03	0.03
Lower Lim.	0.0012	0.0035	0.001	0.0011	0.0014	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016		<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
5/6/2020	<0.0002					<0.0002
5/7/2020		<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020	<0.0002				<0.0002	<0.0002
8/28/2020		<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020					<0.0002	<0.0002
3/1/2021	<0.0002	<0.0002		<0.0002		
3/2/2021			<0.0002		<0.0002	
3/3/2021						<0.0002
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022		<0.0002			<0.0002	
Mean	0.0001926	0.0001932	0.0001951	0.0001925	0.0001926	0.0001831
Std. Dev.	3.235E-05	2.959E-05	7.665E-05	3.258E-05	3.212E-05	5.156E-05
Upper Lim.	0.0002	0.0002	0.00043	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	7.1E-05	6.4E-05	5.8E-05	6E-05	6.7E-05

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	0.0047 (J)	0.022	<0.005
2/17/2016		<0.005				
8/31/2016	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.005			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.0127	
8/6/2018						0.0047 (J)
8/7/2018	<0.005		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.005		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
3/17/2020	0.0017 (J)		0.0096 (J)			0.0026 (J)
3/18/2020		0.0032 (J)		0.0046 (J)	0.028	
8/27/2020	0.011				0.021	0.0027 (J)
8/28/2020		0.0037 (J)	0.0045 (J)	0.0031 (J)		
9/22/2020	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)		
9/23/2020					0.026	0.0031 (J)
3/1/2021	0.011	0.0043 (J)		0.0041 (J)		
3/2/2021			0.012		0.019	
3/3/2021						0.002 (J)
8/18/2021	0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)
2/8/2022	0.02		0.0091	0.0044 (J)		<0.005
2/9/2022		0.0042 (J)			0.017	
Mean	0.006274	0.003053	0.005579	0.004684	0.02204	0.003011
Std. Dev.	0.005851	0.001021	0.004227	0.002752	0.00652	0.00113
Upper Lim.	0.011	0.00365	0.00692	0.0047	0.02585	0.003618
Lower Lim.	0.0022	0.002455	0.002946	0.0029	0.01822	0.002236

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/29/2022 12:34 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
2/16/2016		<0.001
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
9/1/2016		<0.001
11/28/2016	<0.001	
12/1/2016		<0.001
2/22/2017	<0.001	
2/24/2017		<0.001
5/10/2017	<0.001	<0.001
7/17/2017		<0.001
7/18/2017	<0.001	
10/16/2017		<0.001
10/17/2017	<0.001	
2/20/2018	<0.001	
2/21/2018		<0.001
8/7/2018		<0.001
8/8/2018	<0.001	
2/26/2019	<0.001	<0.001
6/12/2019	<0.001	
6/13/2019		<0.001
8/20/2019	<0.001	
8/21/2019		5.3E-05 (J)
10/9/2019	<0.001	<0.001
3/18/2020	<0.001	<0.001
8/27/2020		<0.001
8/28/2020	<0.001	
9/22/2020	<0.001	
9/23/2020		<0.001
3/1/2021	<0.001	
3/2/2021		<0.001
8/18/2021	<0.001	<0.001
2/9/2022	<0.001	<0.001
Mean	0.0009511	0.0009502
Std. Dev.	0.0002134	0.0002173
Upper Lim.	0.001	0.001
Lower Lim.	7E-05	5.3E-05

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Tables

Figures

Appendix A

Laboratory Analytical Reports and Data Validation Reports

Appendix B

Field Sampling Reports

Appendix C

Statistical Analysis Results

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