



**REPORT**

# 2019 Annual Groundwater Monitoring & Corrective Action Report

*Georgia Power Company - Plant Scherer Cell 1 and PAC Ash Cell  
Permit No. 102.009D(LI)*

Submitted to:

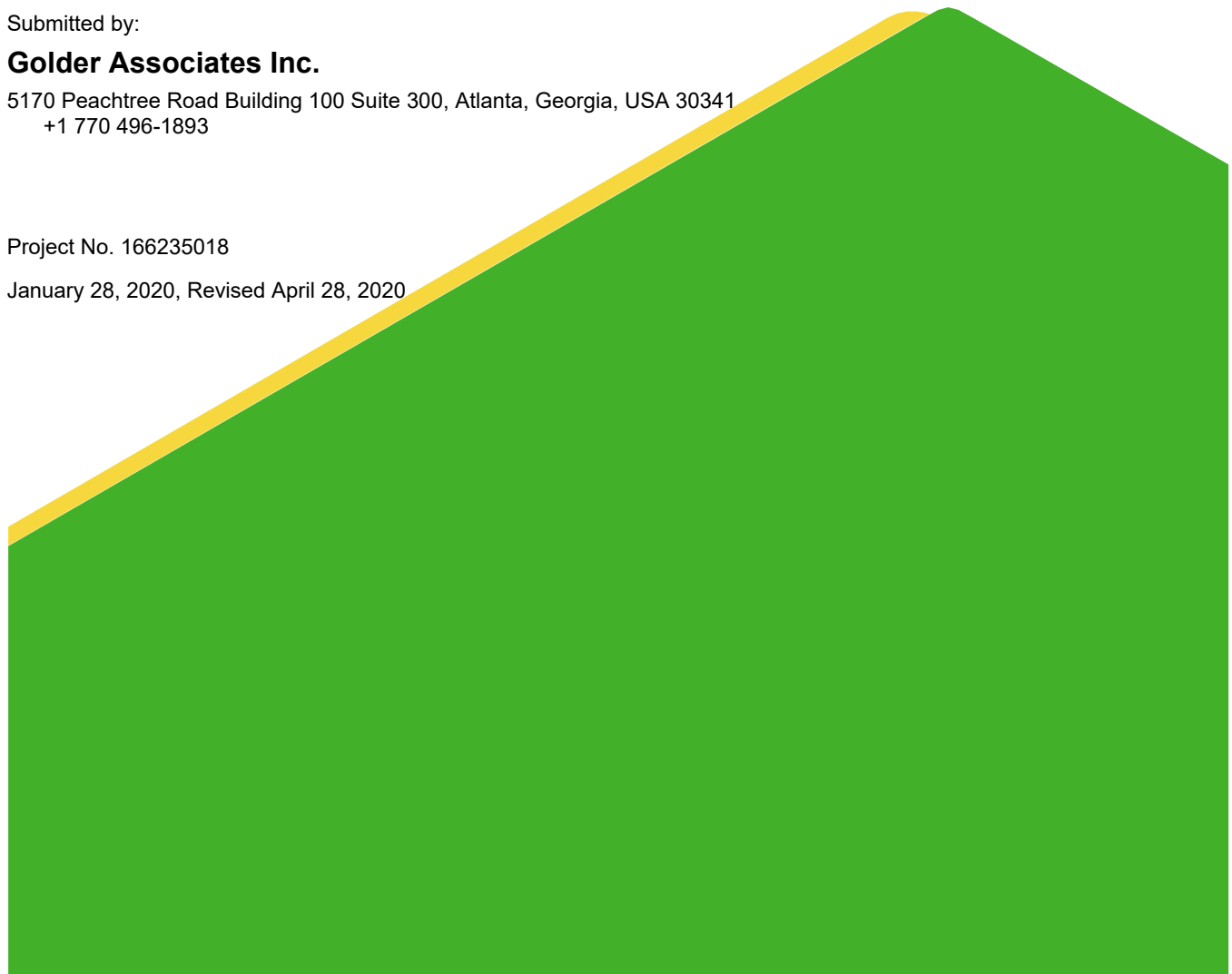
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## Certification Statement

This 2019 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Scherer Cell 1 & PAC Ash Cell Permit No. 102.009D(LI) has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 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 Golder Associates Inc.

Golder Associates, Inc. certifies that all site constituents were below the applicable Georgia maximum contaminant levels.

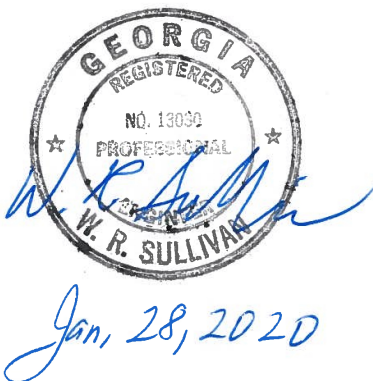
**GOLDER ASSOCIATES INC.**



Rachel P. Kirkman, PG  
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I hereby certify that this 2019 Annual Groundwater Monitoring Report, Georgia Power Company Plant Scherer Coal Combustion By-Product Private Industry Solid Waste Disposal Facility (Plant Scherer Landfill) located at 10986 Georgia 87, Juliette, Georgia 31046, has been prepared to meet the requirements of 40 CFR §257.90(e).

**GOLDER ASSOCIATES INC.**



W. Randall Sullivan, PE  
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[https://golderassociates.sharepoint.com/sites/24912g/project files/200 reports/2sa2019-ga state report/landfill/final v.0 1.2020/fn\\_scherer\\_cell 1.pac.ccr annual report\\_1.27.2020.docx](https://golderassociates.sharepoint.com/sites/24912g/project%20files/200%20reports/2sa2019-ga%20state%20report/landfill/final%20v.0%201.2020/fn_scherer_cell_1.pac.ccr%20annual%20report_1.27.2020.docx)

## 1.0 INTRODUCTION

This report has been prepared by Golder Associates Inc. (Golder) to present results of both semi-annual monitoring events conducted in March and September 2019 for Georgia Power's Plant Scherer (Scherer) Cell 1 and Powdered Activated Carbon (PAC) Ash Cell and serves as both the second semi-annual and combined annual monitoring report for 2019. Semi-annual monitoring and reporting for Plant Scherer is performed in accordance with the monitoring program requirements of the Georgia (GA) Department of Natural Resources Environmental Protection Division (EPD) Chapter 391-3-4 Solid Waste Management; Solid Waste Permit 102-009D(LI); and, the Groundwater Monitoring Plan Narrative of the Design & Operations (D&O) Plan for Plant Scherer Coal Combustion By-Product CCB Disposal Facility, submitted by Southern Company Generation Engineering and Construction Services February 26, 2010. The D&O Plan includes a minor modification for coal combustion residuals (CCR) disposal in all cells approved by EPD November 20, 2017 and a minor modification to include Appendix III and IV parameters contained in 40 CFR 257, Subpart D approved by EPD August 9, 2017.

### 1.1 Site Description & Background

Plant Scherer is located in northeast Monroe County, Georgia, approximately 5 miles south of Juliette, GA. The property occupies approximately 12,000 acres and is bounded on the south by Lake Juliette. The plant is primarily surrounded by agricultural and residential use. Figure 1, Site Location Map, depicts the location of Plant Scherer relative to the surrounding area.

The Plant Scherer Landfill consists of a two active cells, namely, Cell 1 and PAC Ash Cell, and future Cells 2 and 3. The two active cells have been utilized since 2011 for the disposal of CCR. The total disposal area occupies approximately 325 acres along the northern portion of the property. Figure 2, Site Plan and Monitoring Well Location Map depicts the general configuration of the landfill units and site monitoring wells.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south towards Lake Juliette and east toward the Ocmulgee River (Figure 1). The landfill is situated east/southeast of the ash pond which is in a topographically high area on the property. The landfill cells have a geosynthetic clay liner and a geomembrane, and a leachate collection and removal system in place.

### 1.2 Regional & Site Geology & Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the site. Information presented in this section is based on published literature, discussion with local geologic experts, and experience working in this geologic terrain.

The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering, which has created a landscape dissected by creeks and streams forming a dendritic drainage pattern. These rocks are deeply weathered due to the humid climate and bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very feldspathic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances.

Near surface conditions were determined based upon available boring and monitoring well installation logs. Based on review of this information, residual soils, consisting of primarily sandy silt, silty sand, sandy clay and

silty clay, occur as a variably thick blanket overlying bedrock across most of the site. The thickness of the residual soil encountered in the borings is variable, ranging from approximately 17 feet to 168 feet, with an average residual soil thickness of about 57 feet. Saprolitic soils and/or saprolitic rock vary in thickness across the site but were generally encountered at or near ground surface. Saprolitic rock is considered to be partially weathered rock (PWR) as defined by blow counts, where available. Material overlying the top of rock surface, including residual soils, a transitionally weathered zone, saprolite, and saprolitic rock, is collectively referred to as overburden or regolith.

Field hydraulic conductivity tests (i.e., slug tests) performed in a variety of geologic materials onsite indicate an average horizontal hydraulic conductivity on the order of  $10^{-4}$  centimeters per second (cm/s). Site data include 58 slug test measurements across the site with an average of 2.36 feet/day (ft/day); median 1.31 ft/day. This hydraulic conductivity is generally consistent with regional measurements within Piedmont overburden (Heath, 1982). In general, groundwater flow is potentially faster through the transitionally weathered zone; however, the magnitude of difference is nominal enough to not be considered relevant at this site.

### 1.3 Groundwater Monitoring Well Network

A groundwater monitoring system at the Site monitors the groundwater passing the waste boundary of Cell 1 and PAC Ash Cell within the uppermost aquifer. There are 20 monitoring wells at Cell 1 and 12 monitoring wells at the PAC Ash Cell. Wells are located to serve as upgradient, and downgradient wells based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. Table 1, Monitoring Well Network Summary, presents the pertinent well construction details for the active landfill cells at Plant Scherer.

### 1.4 Surface Water Monitoring

Small tributaries traverse the site to the Ocmulgee River, which is located approximately 3,000 feet east of the facility site boundary. Eight locations as shown on Figure 2 are sampled semi-annually to determine the surface water quality of the small tributaries traversing the site.

### 1.5 Effluent Monitoring

Effluent monitoring is performed semi-annually. A single effluent sample was collected on April 1, 2019 and again on September 13, 2019 from the point of discharge of the flue gas desulfurization (FGD) waste stream. The FGD sample is analyzed for the same target metals as the groundwater samples.

## 2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed during the first and second semi-annual monitoring periods in 2019. During the first semi-annual monitoring period, Golder collected groundwater, surface water and effluent samples for this event between March 26 and April 1, 2019. During the second semi-annual monitoring period, Golder collected groundwater, surface water and effluent samples between September 9 and September 13, 2019. Table 2, Groundwater Sampling Event Summary, presents a summary of the groundwater sampling event completed for PAC Ash Cell (Table 2A) and Cell 1 (Table 2B) and the status of the monitoring well network for each unit.

Groundwater analytical data and chain of custody records are presented in Appendix A, Analytical Results, Field Data Forms, and Data Validation Summaries. Environmental monitoring field data sheets and the well condition summary forms are also included with the analytical reports in Appendix A. Field data and sampling notes for each monitoring well are recorded on the field information forms, which contain a description of the sampling

equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location.

## 2.1 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in 2019; the network remained the same as in the 2018 (previous) reporting year. Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling.

## 2.2 Detection Monitoring

A detection monitoring well network has been established for each Cell 1 and PAC Ash Cell at Plant Scherer. Detection monitoring is performed on a semi-annual basis in accordance with the approved Georgia EPD Solid Waste Permit No. 102-009S(LI) and the site's 2010 D&O Plan. Groundwater samples from wells in the detection monitoring system were analyzed for the permit-specified semi-annual monitoring parameters as well as Appendix III monitoring parameters per 40 CFR Parts 257 and 261. Additionally, samples were collected from surface water sampling locations and from the site effluent.

## 2.3 Alternate Source Demonstrations

Based on results of both the *2018 Annual Groundwater Monitoring and Corrective Action Report* and the *2019 First Semi-Annual Groundwater Monitoring & Statistical Evaluation Report*, and subsequent verification sampling, statistically significant increases (SSIs) of select Appendix III monitoring constituents were identified above background concentrations. In accordance with GA EPD Solid Waste Management Rule and §257.94(e)(2), an alternate source demonstration (ASD) was prepared and placed into the operating record to address each of the identified SSIs. Each of the ASDs completed in 2019 are attached as Appendix B, Alternate Source Demonstration.

## 3.0 SAMPLE METHODOLOGY & ANALYSIS

Semi-Annual sampling events for Cell 1 and PAC Ash Cell landfills at Plant Scherer were conducted during March-April 2019 and September 2019. The following sections describe methods used to conduct groundwater monitoring at Cell 1 and PAC Ash Cell.

### 3.1 Groundwater Level Measurement

Prior to sampling, Golder recorded groundwater elevations from each well and piezometer on March 25, 2019 and again on September 9, 2019. Groundwater elevation data are summarized on Table 3, Summary of Groundwater Elevations. The recorded water level data were used to develop Figure 3A, PAC Ash Cell Potentiometric Surface Map - March 25, 2019 and Figure 3B, PAC Ash Cell Potentiometric Surface Map – September 9, 2019 as well as Figure 4A, Cell 1 Landfill Potentiometric Surface Map - March 25, 2019 and Figure 4B, Cell 1 Landfill Potentiometric Surface Map – September 9, 2019. Review of Figures 3 and 4 shows that groundwater generally flows south-southeast across the site and is consistent with historical observations.

### 3.2 Groundwater Gradient and Flow Velocity

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on site-specific slug test data at the site, an average hydraulic conductivity value of 2.36 ft/day is used in the flow calculations.

Additional details are provided in the *Plant Scherer Proposed Coal Combustion By-Product Disposal Facility Site Acceptability Report (2007)*. The hydraulic gradient was calculated between well pairs as shown on Table 4A, Horizontal Groundwater Velocity Calculations – March 2019 and Table 4B, Horizontal Groundwater Velocity Calculations – September 2019. An effective porosity of 0.20 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

Where:

$$V = \text{Groundwater flow velocity} \left( \frac{\text{feet}}{\text{day}} \right)$$
$$K = \text{Average Hydraulic Conductivity of the aquifer} \left( \frac{\text{feet}}{\text{day}} \right)$$
$$i = \text{Horizontal hydraulic gradient} \left( \frac{\text{feet}}{\text{feet}} \right)$$
$$n_e = \text{Effective porosity}$$

Using this equation and groundwater elevation data from this sampling event, horizontal groundwater velocities are calculated for various areas of the site and shown on Table 4.

As presented on Table 4A and 4B, groundwater flow velocity at the site ranges from approximately 0.2 ft/day to 0.5 ft/day (approximately 73 to 183 ft/year) across the Cell 1 and PAC Ash Cell. These calculated groundwater velocities across the site are generally consistent with historical calculations. The observed groundwater velocities calculated for this monitoring event are also consistent with expected velocities in the regolith-upper bedrock aquifers of Georgia Piedmont and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for the landfills at Plant Scherer.

### 3.3 Groundwater Sampling

Groundwater samples were collected from site detection monitoring wells. Monitoring wells were purged and sampled using low-flow sampling procedures. Non-dedicated, low-flow pneumatic bladder pumps were used to purge and sample the wells. During the purging of each well, field measurements of temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were recorded using a SmarTroll© (In-Situ© field instrument) along with a separate turbidity meter to verify stabilization. Groundwater samples were collected when the following general stabilization criteria were met:

- 0.1 standard units for pH
- 5% for specific conductance
- 0.2 milligrams per liter (mg/L) or 10% for DO > 0.5 mg/L (whichever is greater)
- Turbidity measurements less than 10 Nephelometric Turbidity Units (NTU)

Any deviation from stabilization criteria, if applicable, is identified on field sampling forms. Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field information forms generated directly from the SmarTroll© as well as chain-of-custody records are included in Appendix A.



Where sample turbidity was greater than 5 NTU and all other stabilization criteria were met, samplers continued purging in order to reduce the turbidity to 5 NTU or less. When turbidity remained above 5 NTU but was less than 10 NTU, and all other parameters are stabilized, the well was sampled. Where turbidity remained above 10 NTU, an unfiltered sample was collected followed by a filtered sample that has passed through an in-line 0.45-micron filter attached to the discharge (sample collection) tube. The unfiltered sample data are used for compliance monitoring and in the statistical analysis database. Filtered sample data are used to assess the impacts of turbidity on groundwater quality. Details regarding additional filtered samples is recorded on the field information form.

Results for each well are summarized and compared to applicable standards on Table 5A, Analytical Data Summary Cell 1 - March 2019 and Table 5B, Analytical Data Summary Cell 1 - September 2019; Table 6A, Analytical Data Summary PAC Ash Cell - March 2019 and Table 6B, Analytical Data Summary PAC Ash Cell - September 2019. Review of Tables 5A/B and 6A/B shows no exceedances of the established primary MCLs for any of the samples from either the upgradient or downgradient monitoring wells during the 2019 sampling events.

### 3.4 Surface Water Sampling

Samples from surface water sampling locations SWA-2 through SWA-3 and SWC-4 through SWC-8 were analyzed for target parameters, as indicated in the 2010 D&O Plan. Surface water location SWA-1 was dry at the time of sampling during both events, and therefore, no sample was collected. The results of the 2019 surface water sampling are provided in Table 7A, Surface Water Analytical Data Summary - April 2019, and Table 7B, Surface Water Analytical Data Summary - September 2019. As specified in the August 2017 permit modification, surface waters were also analyzed for Appendix III parameters. Comparison of the Appendix III monitoring parameters in surface water samples collected during 2019 were compared to the Georgia surface water quality standards indicate no exceedances of the water quality standards in surface water.

Review of Tables 7A/B and a comparison of upstream to downstream results indicates no significant change in surface water chemistry downstream of the landfill. Thus, there is no evidence of landfill impacts to surface water at the site.

### 3.5 Effluent Sampling

During 2019 sampling events, one effluent sample was collected during each semi-annual event from the point of discharge of the FGD waste stream within Cell 1 of the disposal facility. The FGD effluent sample is analyzed for the target constituents shown in the 2010 D&O Plan. Results of the FGD effluent sample collected on April 1, 2019 and September 13, 2019 are provided in Appendix A.

### 3.6 Laboratory Analyses

Cell 1 and PAC Ash Cell monitoring wells were sampled and analyzed for applicable State and Federal monitoring parameters pursuant to the sites 2010 D&O Plan. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A.

Laboratory analyses were performed by Eurofins TestAmerica Laboratory (TAL) located in Pittsburgh, Pennsylvania), which is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. In addition, TAL laboratories are certified by the State of Georgia to perform analyses. Groundwater data and chain of custody records for the monitoring events are presented in Appendix A.

### 3.7 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every 10 samples. Equipment blanks (collected where non-dedicated sampling equipment is used), field blanks, and duplicate samples were also collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were independently 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 (RPDs), field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures (USEPA, 2011). Data validation summaries are provided in Appendix A.

## 4.0 STATISTICAL ANALYSES

Statistical analysis of groundwater monitoring data was performed on samples collected from the groundwater monitoring network following the appropriate certified statistical methodology following each sampling event. The statistical method used for Cell 1 and PAC Ash Cell was developed using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007 (USEPA, 2009).

### 4.1 Statistical Methods

The selected statistical method for Cell 1 and PAC Ash Cell was developed using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (Unified Guidance). 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 USEPA Unified Guidance (2009) document.

#### 4.1.1 Cell 1 Statistical Methods

Groundwater quality data for Cell 1 landfill were evaluated using a combination of interwell and intrawell prediction limits for required parameters. Intrawell methods utilize historical data from within a given well to establish a statistical limit for comparison of compliance data. As a result, each parameter will have a different statistical limit for each well. Interwell statistical analyses pools upgradient data to calculate a prediction limit for which downgradient data is compared. Data from the 2019 detection monitoring events are compared to the calculated statistical limits (utilizing data through October 2018) to determine whether any concentrations exceed background levels. The selected statistical method(s) uses an optional 1-of-2 verification resample plan. When an initial SSI or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. If the initial finding was not verified by resampling, the resampled value replaced the initial finding. When the re-sample confirms the initial finding, both values remain in the database and an SSI is declared. Table 4.1.1, Statistical Method Summary, provides a summary of the statistical methodology used at Cell 1 routine detection groundwater monitoring.



**TABLE 4.1.1 STATISTICAL METHOD SUMMARY - PLANT SCHERER CELL 1**

Monitoring Well Network	Upgradient Wells	GWA-15, GWA-16, and GWA-17
	Downgradient Wells	GWC-1, GWC-2, GWC-3, GWC-4, GWC-5, GWC-6, GWC-7, GWC-8/GWC-8A, GWC-9, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14, GWC-18, GWC-19, and GWC-20
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids (TDS)
	Appendix IV (Assessment Monitoring-if required)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
GA EPD Monitoring Parameters	State Metals (Detection Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Intrawell prediction limits for Appendix III (boron, calcium, chloride, fluoride, pH, sulfate, TDS) State Metals (barium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc).  Interwell predictions limits for Arsenic and Silver.
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
	Verification Resample Plan (Optional)	1-of-2 with minimum of 8 samples per well for interwell testing; 1-of-2 resample plan with a minimum of 10 samples per well for intrawell testing. <ul style="list-style-type: none"> <li>▪ Initial statistical exceedance warrants independent resampling within 90 days.</li> <li>▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI).</li> <li>▪ If all resamples exceeds, well/parameter has a confirmed SSI.</li> <li>▪ If no resample is collected, the original result is deem verified.</li> </ul>

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain less than or equal to 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 PQL as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

### 4.1.2 PAC Ash Cell Statistical Methods

Groundwater quality data for Cell 1 landfill were evaluated using intrawell prediction limits for required parameters. Using intrawell methods utilize historical data from within a given well to establish a statistical limit for comparison of compliance data. As a result, each parameter will have a different statistical limit for each well. Data from the 2019 detection monitoring events are compared to the calculated statistical limits (utilizing data through October 2018) to determine whether any concentrations exceed background levels. The selected statistical method uses an optional 1-of-2 verification resample plan. When an initial SSI or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. If the initial finding was not verified by resampling, the resampled value replaced the initial finding. When the re-sample confirms the initial finding, both values remain in the database and an SSI is declared. Table 4.1.2, Statistical Method Summary, provides a summary of the statistical methodology used at PAC Ash Cell for routine detection groundwater monitoring.

TABLE 4.1.2 STATISTICAL METHOD SUMMARY - PLANT SCHERER PAC ASH CELL		
Monitoring Well Network	Upgradient Wells	GWA-21, GWA-22, GWA-45, GWA-46, GWA-47, GWA-48, GWA-49
	Downgradient Wells	GWC-29, GWC-50, GWC-51, GWC-52, GWC-53
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS
	Appendix IV (Assessment Monitoring-if required)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
GA EPD Monitoring Parameters	State Metals (Detection Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Intrawell statistical limits will be applied for each well/constituent, depending on the appropriateness of the method as determined by the Analysis of Variance
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
	Verification Resample Plan (Optional)	1-of-2 with minimum of 8 samples per well for intrawell testing. <ul style="list-style-type: none"> <li>▪ Initial statistical exceedance warrants independent resampling within 90 days.</li> <li>▪ If resample passes, well/parameter is not a confirmed SSI.</li> <li>▪ If resample exceeds, well/parameter has a confirmed SSI.</li> <li>▪ If no resample is collected, the original result is deemed verified.</li> </ul>

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).

- When data contain less than or equal to 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 PQL as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

## 4.2 Statistical Analysis Results

The calculated prediction limits are included in Appendix C, Statistical Analysis Reports. The statistical analysis (Sanitas) results presented in Appendix C are summarized in this section.

### 4.2.1 March 2019 Statistical Analysis Results

Table 4.2.1, March 2019 Statistically Significant Increase Summary presents the SSIs noted following the March 2019 monitoring events.

Following the Unified Guidance (2006), statistical analyses are not performed on analytes containing 100% non-detects; for Cell 1 this includes Antimony, Beryllium, Cadmium, Mercury, Thallium; and for PAC Ash this includes Antimony, Arsenic, Copper, Silver and Thallium.

**Table 4.2.1: March 2019 Statistically Significant Increase Summary**

Well	Parameter	Concentration (March 2019) mg/L	Upper Prediction Limit mg/L	SSI (Initial / Verified)
<b>Cell 1</b>				
GWC-4	Barium	0.053	0.05032	Initial
GWC-6	Vanadium	0.012	0.01134	Initial
GWC-8A	Calcium	47	44.85	Initial
	Total Dissolved Solids	300	239.7	Initial
GWC-10	Sulfate	1.6	1.2	Initial
GWC-13	Sulfate	1.3	1.2	Initial
GWA-15	Sulfate	2.1	1.2	Initial
<b>Pac Ash Cell</b>				
GWA-45	Barium	0.057	0.0563	Initial
GWA-46	Vanadium	0.0072	0.005981	Initial
GWA-48	Vanadium	0.022	0.02102	Initial
GWC-29	Sulfate	3.2	3.181	Initial
	Vanadium	0.0079	0.006698	Initial
GWC-50	Vanadium	0.0053	0.004554	Initial
GWC-51	Sulfate	2.7	1.2	Initial
	Vanadium	0.0087	0.006449	Initial
GWC-52	Chromium	0.019	0.01517	<b>Verified</b>
	Sulfate	29	25.5	Initial

Notes:

mg/L = milligrams per liter  
 "J" = Result is estimated.  
 GWA = "A" designates upgradient monitoring well

Concentrations of Appendix III constituents and target metals are below respective prediction limits for each of the Cell 1 and PAC Ash monitoring wells with the exceptions noted above in Table 4.2.1. Initial, apparent statistical exceedances for barium, calcium, sulfate, TDS, and vanadium are noted for select monitoring wells at Cell 1, and initial apparent statistical exceedances of barium, chromium, sulfate and vanadium are noted for select monitoring wells at the PAC Ash unit. A verified statistical exceedance of chromium was identified at monitoring well GWC-52.

In lieu of immediate verification resampling, many of the of the statistical exceedances identified following the March 2019 sampling event can be addressed by multiple previous ASDs prepared for the site and is applicable to many of the initial statistical exceedances. An ASD summary for each of the statistical exceedances above the prediction limits identified following the March 2019 is attached in Appendix B. Resampling for each of the initial apparent statistical exceedances was completed during the September 2019 sampling event.

#### 4.2.2 September 2019 Statistical Analysis Results

Table 4.2.2, 2019 Statistically Significant Increase Summary presents the SSIs noted following the September 2019 monitoring event.

Following the Unified Guidance (2006), statistical analyses are not performed on analytes containing 100% non-detects; for Cell 1 this includes Antimony, Beryllium, Mercury, Selenium, and Silver; and for PAC Ash this includes Antimony, Arsenic, Beryllium, Cadmium, Lead, Mercury, Selenium, Silver and Thallium.

**Table 4.2.2: September 2019 Statistically Significant Increase Summary**

Well	Parameter	Concentration (September 2019) mg/L	Upper Prediction Limit mg/L	SSI (Initial / Verified)
<b>Cell 1</b>				
GWC-2	Chromium	0.014	0.0122	Initial
GWC-7	Chloride	2.1	1.883	Initial
GWC-10	Chloride	2.9	2.684	Initial
	Chromium	0.023	21.5	Initial
	Sulfate	1.8	1.408	<b>Verified</b>
GWC-11	Vanadium	0.015	0.01474	Initial
GWC-12	Chromium	0.0036	0.003548	Initial
	Vanadium	0.0052	0.0050	Initial
GWC-13	Vanadium	0.0062	0.0050	Initial
GWC-14	Barium	0.011	0.0106	Initial
	Vanadium	0.0062	0.0050	Initial
GWC-16	Barium	0.039	0.03163	Initial
	Chromium	0.0076	0.007077	Initial
GWA-17	Barium	0.051	0.0504	Initial
	Chromium	0.012	0.01039	Initial
	Vanadium	0.0091	0.008211	Initial

Well	Parameter	Concentration (September 2019) mg/L	Upper Prediction Limit mg/L	SSI (Initial / Verified)
GWC-18	Vanadium	0.011	0.009816	Initial
GWC-19	Barium	0.026	0.0191	Initial
	Calcium	14	13.6	Initial
<b>Pac Ash Cell</b>				
GWA-21	Boron	0.053	0.05	Initial
	Total Dissolved Solids	130	109.9	Initial
GWA-45	Barium	0.10/0.11	0.05749	<b>Verified</b>
	Total Dissolved Solids	340	336.6	Initial
GWA-46	Barium	0.022	0.02168	Initial
	Chloride	4.3	4.044	Initial
	Total Dissolved Solids	97	86.78	Initial
GWC-47	Calcium	12	11.8	Initial
GWA-49	Total Dissolved Solids	120	118.7	Initial
GWC-29	Barium	0.019	0.01838	Initial
	Calcium	12	11.8	Initial
	pH	5.98	5.923	Initial
	Sulfate	3.2	3.125	<b>Verified</b>
GWC-51	Total Dissolved Solids	110	102.5	Initial
GWC-52	Barium	0.017	0.01444	Initial
	Calcium	17	16.1	Initial
	Chromium	0.027	0.01544	<b>Verified</b>
	Sulfate	34	24.52	<b>Verified</b>

Notes:

mg/L = milligrams per liter

"J" = Result is estimated.

GWA = "A" designates upgradient monitoring well

Concentrations of Appendix III constituents and target metals are below respective prediction limits for each of the Cell 1 and PAC Ash monitoring wells with the exceptions noted above in Table 4.2.2. Cell 1 monitoring wells identified verified statistical exceedances of sulfate at GWC-10. Verified statistical exceedances of barium at GWA-45, sulfate at GWC-29, and chromium and sulfate at GWC-52 were identified following the September 2019 sampling event for PAC Ash Cell.

Verification sampling was conducted in December 2019 for the statistical exceedance of barium at GWA-45. Both the initial and verification results are shown in Table 4.2.2. In lieu of immediate verification sampling for the remaining SSIs, many of the of the statistical exceedances identified following the September 2019 sampling event can be addressed by multiple previous ASDs prepared for the site and is applicable to many of the initial statistical exceedances. An ASD summary for each of the statistical exceedances above the prediction limits identified following the September 2019 sampling event is underway and will be submitted under a separate cover in accordance with the schedule provided by the rule. The ASD will address each of the initial and verified statistical exceedance identified following the September 2019 event.

## 5.0 MONITORING PROGRAM STATUS

Plant Scherer Cell 1 and PAC Ash Cell is in detection monitoring. Table 2A and Table 2B presents the status of each well within the certified monitoring network for PAC Ash Cell and Cell 1, respectively. Statistical exceedances of select Appendix III constituents (calcium, chloride, pH, sulfate and TDS), and select metals (barium, chromium, vanadium, and zinc) have been identified during the 2019 sampling events. GPC has addressed many of the reported exceedances in accordance with the requirements, and options, of Georgia EPD Solid Waste Management Rule (SWMR) by demonstrating alternate sources for the previous and current reported SSIs. The ASDs prepared in 2019 are included in Appendix B. As such, Cell 1 and PAC Ash Cell will remain in detection monitoring.

## 6.0 CONCLUSIONS

This *2019 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Scherer Cell 1 & PAC Ash Cell Permit No. 102.009D(LI)* has been prepared to fulfill the requirements of Georgia EPD SWMR, and the site's 2010 D&O Plan. Samples were obtained on March 26 through April 1, 2019 and September 9 through 13, 2019. The groundwater flow direction and rates observed during 2019 sampling events are consistent with historical evaluations.

Review of analytical results and statistical analyses developed for the site indicate that each statistical exceedance identified during 2019 can be addressed by the previously submitted ASDs and can be attributed to either natural variability in groundwater chemistry or a source other than the landfill units. The monitoring well network continues to effectively monitor the water bearing unit beneath Cell 1 and PAC Ash Cell.

Based on the findings presented herein, Plant Scherer will continue with detection groundwater monitoring and reporting. The next scheduled sampling event is scheduled for April 2020.

## 7.0 REFERENCES

Georgia Environmental Protection Division, 1997, Criteria for Performing Site Acceptability Studies for Solid Waste Landfills in Georgia – Circular 14.

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## TABLES & FIGURES



**TABLE 1**  
**MONITORING WELL NETWORK SUMMARY**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Hydraulic Location	Latitude	Longitude	Top of Casing Elevation (feet msl)	Ground Surface Elevation (feet msl)	Total Depth (feet bgs)	Top of Screen Elevation (feet msl)	Bottom of Screen Elevation (feet msl)	Screen Length (feet)
<b>GYMPSUM CELL 1</b>									
GWC-1	Downgradient	33.07878	-83.79131	374.75	371.54	36.0	346.9	336.9	10.0
GWC-2	Downgradient	33.07806	-83.79152	380.03	376.91	55.1	332.1	322.1	10.0
GWC-3	Downgradient	33.07751	-83.79247	410.22	407.19	46.7	370.8	360.8	10.0
GWC-4	Downgradient	33.07653	-83.79300	411.57	408.31	40.0	378.6	368.6	10.0
GWC-5	Downgradient	33.07554	-83.79305	396.50	393.18	34.1	372.8	362.8	10.0
GWC-6	Downgradient	33.07466	-83.79356	415.70	412.36	45.2	377.5	367.5	10.0
GWC-7	Downgradient	33.07375	-83.79430	418.07	414.29	54.9	369.7	359.7	10.0
GWC-8A	Downgradient	33.07286	-83.79519	401.47	398.20	45.0	364.9	354.9	10.0
GWC-9	Downgradient	33.07296	-83.79587	386.01	383.02	17.1	376.2	366.2	10.0
GWC-10	Downgradient	33.07393	-83.79635	392.68	389.30	31.7	367.9	357.9	10.0
GWC-11	Downgradient	33.07487	-83.79713	402.19	399.06	31.3	378.1	368.1	10.0
GWC-12	Downgradient	33.07578	-83.79786	412.75	409.51	34.5	385.3	375.3	10.0
GWC-13	Downgradient	33.07677	-83.79839	419.58	416.54	40.3	386.6	376.6	10.0
GWC-14	Downgradient	33.07764	-83.79930	403.41	400.25	24.4	386.2	376.2	10.0
GWA-15	Upgradient	33.07862	-83.79873	414.82	411.82	26.5	395.6	385.6	10.0
GWA-16	Upgradient	33.07927	-83.79776	444.06	440.74	54.5	396.5	386.5	10.0
GWA-17	Upgradient	33.07916	-83.79656	445.63	442.72	43.9	409.2	399.2	10.0
GWC-18	Downgradient	33.07858	-83.79554	439.64	436.36	57.1	389.6	379.6	10.0
GWC-19	Downgradient	33.07760	-83.79407	429.98	426.12	54.1	382.3	372.3	10.0
GWC-20	Downgradient	33.07844	-83.79249	426.09	422.82	69.4	363.7	353.7	10.0
<b>PAC ASH CELL</b>									
GWA-21	Upgradient	33.08045	-83.79814	422.30	419.56	17.96	411.9	401.9	10.0
GWA-22	Upgradient	33.08123	-83.79810	444.23	441.75	40.02	412.0	402.0	10.0
GWA-45	Upgradient	33.08044	-83.80327	450.89	447.98	32.59	425.7	415.7	10.0
GWA-46	Upgradient	33.08075	-83.80214	460.86	458.10	44.24	424.2	414.2	10.0
GWA-47	Upgradient	33.08097	-83.80100	465.55	462.81	51.46	421.7	411.7	10.0
GWA-48	Upgradient	33.08121	-83.79984	461.47	458.73	61.41	407.6	397.6	10.0
GWA-49	Upgradient	33.08142	-83.79870	432.61	429.96	37.35	401.9	391.9	10.0
GWC-29	Downgradient	33.07825	-83.80058	399.39	396.69	24.4	382.6	372.6	10.0
GWC-50	Downgradient	33.07837	-83.79980	406.92	404.18	33.76	380.7	370.7	10.0
GWC-51	Downgradient	33.07815	-83.80149	409.89	406.88	23.79	393.4	383.4	10.0
GWC-52	Downgradient	33.07852	-83.80225	416.89	414.14	30.15	394.3	384.3	10.0
GWC-53	Downgradient	33.07948	-83.80310	435.57	432.93	30.36	412.9	402.9	10.0

**Notes:**

1. feet msl = feet mean sea level
2. feet bgs = feet below ground surface

**TABLE 2A.**  
**GROUNDWATER SAMPLING EVENT SUMMARY**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		March/April 2019	September 2019	
Purpose of Sampling Event		Detection	Detection	
<b>CELL 1</b>				
GWA-15	Upgradient	D04	D05	Detection
GWA-16	Upgradient	D04	D05	Detection
GWA-17	Upgradient	D04	D05	Detection
GWC-1	Downgradient	D04	D05	Detection
GWC-2	Downgradient	D04	D05	Detection
GWC-3	Downgradient	D04	D05	Detection
GWC-4	Downgradient	D04	D05	Detection
GWC-5	Downgradient	D04	D05	Detection
GWC-6	Downgradient	D04	D05	Detection
GWC-7	Downgradient	D04	D05	Detection
GWC-8A <sup>[1]</sup>	Downgradient	D04	D05	Detection
GWC-9	Downgradient	D04	D05	Detection
GWC-10	Downgradient	D04	D05	Detection
GWC-11	Downgradient	D04	D05	Detection
GWC-12	Downgradient	D04	D05	Detection
GWC-13	Downgradient	D04	D05	Detection
GWC-14	Downgradient	D04	D05	Detection
GWC-18	Downgradient	D04	D05	Detection
GWC-19	Downgradient	D04	D05	Detection
GWC-20	Downgradient	D04	D05	Detection

**Notes:**

Dxx - Detection Event Number

<sup>[1]</sup> Monitoring well GWC-8 was replaced with GWC-8A in May 2017.

**TABLE 2B.**  
**GROUNDWATER SAMPLING EVENT SUMMARY**  
**Georgia Power Company - Plant Scherer**  
**Juliette, Georgia**

Well ID	Hydraulic Location	Summary of Sampling Events		Status of Monitoring Well
		March/April 2019	September 2019	
Purpose of Sampling Event		Detection	Detection	
<b>PAC ASH CELL</b>				
GWA-21	Upgradient	D04	D05	Detection
GWA-22	Upgradient	D04	D05	Detection
GWA-45	Upgradient	D04	D05	Detection
GWA-46	Upgradient	D04	D05	Detection
GWA-47	Upgradient	D04	D05	Detection
GWA-48	Upgradient	D04	D05	Detection
GWA-49	Upgradient	D04	D05	Detection
GWC-29	Downgradient	D04	D05	Detection
GWC-50	Downgradient	D04	D05	Detection
GWC-51	Downgradient	D04	D05	Detection
GWC-52	Downgradient	D04	D05	Detection
GWC-53	Downgradient	D04	D05	Detection

**Notes:**

BGXX = Background Event and Number

Dxx - Detection Event Number

V = Verification Event

**TABLE 3.**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)															
		4/19/2016	5/10/2016	6/16/2017	8/8/2016	10/3/2016	11/28/2016	2/6/2017	4/4/2017	6/19/2017	10/3/2017	3/19/2018	6/4/2018	10/1/2018	2/19/2019	3/25/2019	9/9/2019
<b>CELL 1</b>																	
GWC-1	374.75	367.48	368.05	365.57	364.15	363.65	363.64	366.47	366.47	365.23	364.40	366.76	367.22	365.33	368.16	368.08	364.55
GWC-2	380.03	368.43	369.16	366.37	365.06	364.50	364.38	367.40	367.13	366.09	365.21	367.53	368.40	366.17	368.95	368.82	365.54
GWC-3	410.22	381.17	380.95	379.87	378.53	377.25	376.24	377.77	377.91	377.58	376.47	377.47	378.69	379.21	381.97	382.08	379.69
GWC-4	411.57	383.07	382.98	381.99	380.65	379.61	378.97	380.19	380.64	380.27	379.44	380.25	380.95	380.68	382.74	382.97	380.37
GWC-5	396.50	379.88	380.05	378.06	376.69	375.66	374.79	376.89	376.98	376.65	375.86	376.96	378.28	377.03	379.73	377.65	376.39
GWC-6	415.70	379.89	379.66	379.18	377.89	376.54	375.50	415.70	376.76	376.52	376.24	376.46	377.48	377.80	379.90	380.10	377.50
GWC-7	418.07	377.96	377.96	376.90	376.04	375.45	405.08	375.87	375.98	375.58	375.21	375.77	376.25	376.04	377.79	377.84	375.72
GWC-8	407.80	379.07	379.31	377.85	377.52	377.36	377.25	378.54	--	--	--	--	--	--	--	--	--
GWC-8A	401.47	Well Installed April 2017 to replace GWC-8							379.14	378.79	378.52	379.15	379.79	378.48	379.66	379.40	378.03
GWC-9	386.01	379.25	379.80	378.16	378.67	378.65	378.69	379.51	379.61	378.96	378.79	379.41	379.71	378.70	379.59	379.33	377.92
GWC-10	392.68	383.01	383.38	381.64	381.26	380.99	381.12	382.75	382.79	382.07	381.73	382.78	383.18	381.69	383.04	382.93	380.94
GWC-11	402.19	385.48	386.01	383.76	382.89	382.57	382.75	385.29	385.12	384.54	383.94	385.38	385.76	383.91	385.61	385.53	382.89
GWC-12	412.75	389.66	390.11	387.57	386.23	385.55	385.18	388.27	388.51	387.81	386.57	388.89	389.58	387.44	389.72	389.74	386.31
GWC-13	419.58	390.96	391.52	389.14	387.85	387.17	387.18	390.08	390.13	389.33	388.45	390.31	390.84	389.08	390.98	390.94	387.92
GWC-14	403.41	391.45	392.19	390.09	389.37	388.96	389.27	391.20	391.00	390.31	390.00	391.17	391.63	390.07	391.59	391.50	389.86
GWA-15	414.82	404.82	405.36	402.87	401.60	400.85	400.49	403.18	403.07	402.39	401.55	403.77	404.27	402.01	404.93	404.76	401.33
GWA-16	444.06	441.36	413.47	412.09	410.46	409.36	408.56	411.01	411.50	410.88	409.72	411.12	412.10	410.70	413.61	413.71	410.18
GWA-17	445.63	413.31	413.15	413.62	413.61	413.25	412.81	412.23	412.46	412.80	412.88	412.72	413.22	409.06	414.57	414.93	415.12
GWC-18	439.64	404.96	404.69	405.21	404.99	404.57	404.12	403.61	403.94	404.03	403.88	404.04	404.64	405.34	406.00	406.52	406.45
GWC-19	429.98	396.63	396.49	396.40	395.79	395.98	394.73	394.88	395.30	395.16	394.74	395.00	395.53	396.31	397.94	398.21	397.20
GWC-20	426.09	387.19	387.06	385.85	384.29	383.04	382.04	384.47	383.76	383.81	382.59	383.30	385.62	385.72	388.50	388.61	386.03

**Notes:**

Feet MSL = feet above mean sea level

**TABLE 3.**  
**SUMMARY OF GROUNDWATER ELEVATIONS**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)															
		4/19/2016	5/10/2016	6/16/2017	8/8/2016	10/3/2016	11/28/2016	2/6/2017	4/4/2017	6/19/2017	10/3/2017	3/19/2018	6/4/2018	10/1/2018	2/19/2019	3/25/2019	9/9/2019
<b>PAC ASH CELL</b>																	
GWA-21	422.30	401.62	419.84	417.78	416.09	415.01	414.28	417.56	417.23	416.32	415.01	416.70	418.44	415.91	419.44	419.37	415.20
GWA-22	444.23	413.71	424.21	421.31	419.02	417.65	416.78	420.17	420.00	418.83	417.19	418.73	420.92	418.17	422.73	422.77	417.83
GWA-45	450.89	439	439.86	436.32	433.83	432.49	431.26	436.65	436.79	434.80	432.95	435.98	436.94	433.05	437.92	438.00	432.55
GWA-46	460.86	431.84	431.64	431.10	457.58	428.39	427.42	428.75	429.16	428.74	427.61	428.28	428.97	427.96	430.38	430.65	428.21
GWA-47	465.55	427.95	427.74	428.44	427.85	426.87	425.95	425.53	425.65	425.34	424.72	424.17	424.47	424.97	426.31	426.75	426.26
GWA-48	461.47	426.51	426.17	426.27	425.24	424.04	423.02	422.65	423.61	423.07	422.19	421.93	422.74	422.54	424.92	425.57	429.74
GWA-49	432.61	424.89	426.17	422.33	419.98	418.65	418.06	421.84	421.31	419.82	418.12	420.06	422.24	419.10	423.82	423.96	418.72
GWC-29	399.39	394.04	394.18	393.71	393.55	393.43	393.48	394.37	393.82	393.68	393.64	394.01	394.19	393.74	394.06	394.06	393.40
GWC-50	406.92	398.85	399.05	398.15	397.69	397.34	397.2	398.14	398.10	397.79	397.42	398.12	398.57	397.64	398.62	398.72	397.36
GWC-51	409.89	401.55	401.76	401.19	400.88	400.77	400.47	401.28	401.16	400.95	400.88	401.39	401.87	401.07	401.59	401.49	400.53
GWC-52	416.89	407.99	408.04	407.88	407.75	407.61	407.49	407.82	407.78	407.72	407.69	407.85	407.94	407.73	408.04	407.93	407.48
GWC-53	435.57	426.65	426.83	425.59	424.43	423.63	422.86	425.49	425.17	424.60	423.89	425.18	425.69	423.98	426.09	426.16	423.62

**Notes:**

Feet MSL = feet above mean sea level

**TABLE 4A.**  
**GROUNDWATER VELOCITY CALCULATIONS - MARCH 2019**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Flow Paths	Groundwater Elevation (feet msl)	$\Delta h$ (feet) <sup>2</sup>	$\Delta l$ (feet) <sup>3</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ )	Average Hydraulic Conductivity, K (feet per day) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ )	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>Cell 1:</b>								
GWA-17/GWC-7	414.93	37.09	2110	0.018	2.36	0.2	0.2	76
	377.84							
GWC-19/GWC-3	398.21	16.13	500	0.0323	2.36	0.2	0.4	139
	382.08							
<b>PAC Ash:</b>								
GWA-45/GWC-51	445.56	44.07	1062	0.041	2.36	0.2	0.5	179
	401.49							
GWA-47/GWC-50	435.34	36.62	1020	0.036	2.36	0.2	0.4	155
	398.72							

**Notes:**

1.  $\Delta H$  = Change in groundwater elevation.
2.  $\Delta L$  = Distance along flow path.
3.  $I = \Delta H / \Delta L$ .
4. Velocity =  $(I * K)/n_e$ .
5. Hydraulic conductivity range based on historic aquifer performance tests.
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).

**TABLE 4B.**  
**GROUNDWATER VELOCITY CALCULATIONS - SEPTEMBER 2019**  
**Georgia Power - Plant Scherer**  
**Juliette, GA**

Flow Paths	Groundwater Elevation (feet msl)	$\Delta h$ (feet) <sup>2</sup>	$\Delta l$ (feet) <sup>3</sup>	Hydraulic Gradient ( $\Delta h/\Delta l$ )	Average Hydraulic Conductivity, K (feet per day) <sup>5</sup>	Assumed Effective Porosity ( $n_e$ )	Average Linear Groundwater Velocity	
							(feet per day) <sup>4</sup>	(feet per year) <sup>4</sup>
<b>Cell 1:</b>								
GWA-17/GWC-7	415.12	39.40	2123.35	0.019	1.860	0.2	0.2	63.0
	375.72							
GWC-19/GWC-3	397.20	17.51	643	0.0272	1.86	0.2	0.3	92.4
	379.69							
<b>PAC Ash:</b>								
GWA-45/GWC-51	432.55	32.02	997.00	0.032	1.860	0.2	0.3	109.0
	400.53							
GWA-47/GWC-50	426.26	28.90	1016.00	0.028	1.860	0.2	0.3	96.6
	397.36							

**Notes:**

1.  $\Delta H$  = Change in groundwater elevation.
2.  $\Delta L$  = Distance along flow path.
3.  $I = \Delta H / \Delta L$ .
4. Velocity =  $(I * K)/n_e$ .
5. Hydraulic conductivity range based on historic aquifer performance tests.
6. Effective porosity based on fracture occurrence.

**TABLE 5A.**  
**ANALYTICAL DATA SUMMARY CELL 1 (APRIL 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units					GROUNDWATER MONITORING WELLS												
		GA MCL	GA SMCL	RL	MDL	GWA-15	GWA-16	GWA-17	GWC-1	GWC-2	GWC-3	GWC-4	GWC-5	GWC-6	GWC-7	GWC-8A	GWC-9	
<b>APPENDIX III</b>		<b>Sample Date:</b>				3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/27/2019	3/26/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019
BORON, TOTAL	mg/L	N/R	N/R	0.05	0.021	ND	ND	ND	ND	ND	ND	ND	0.33	ND	ND	0.16	0.067	
CALCIUM, TOTAL	mg/L	N/R	N/R	0.23	0.13	4	11	6.7	16	17	7.3	13	75	16	14	47	16	
CHLORIDE, TOTAL	mg/L	N/R	250	1.0	0.89	5.5	1.5	1.3	3.6	1.9	3	9.2	42	4.2	1.7	6.6	3	
FLUORIDE, TOTAL	mg/L	4	2	0.2	0.082	ND	ND (0.041 J)	ND (0.042 J)	ND (0.072 J)	ND (0.046 J)	ND (0.046 J)	ND (0.087 J)	ND (0.038 J)	ND (0.058 J)	ND (0.04 J)	ND (0.071 J)	ND (0.066 J)	
pH	S.U.	5.5-7.5	N/R	N/R	N/R	5.41	6.42	6.12	6.54	6.44	6.02	6.34	5.78	6.25	6.38	6.69	6.7	
SULFATE, TOTAL	mg/L	N/R	250	1.0	0.7	2.1	ND	ND (0.58 J)	ND (0.53 J)	ND (0.99 J)	ND (0.47 J)	3.2	260	6.3	ND (0.51 J)	18	6.8	
TOTAL DISSOLVED SOLIDS	mg/L	N/R	500	5.0	3.4	45	100	82	150	130	86	130	<b>580</b>	130	120	300	140	
<b>STATE PARAMETERS</b>																		
ANTIMONY, TOTAL	mg/L	0.006	N/R	0.0025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ARSENIC, TOTAL	mg/L	0.01	N/R	0.0013	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (0.0012 J)	ND (0.00062 J)	
BARIUM, TOTAL	mg/L	2	N/R	0.0025	0.00049	0.0099	0.024	0.031	0.044	0.045	0.015	0.053	0.038	0.052	0.033	0.025	0.018	
BERYLLIUM, TOTAL	mg/L	0.004	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CADMIUM, TOTAL	mg/L	0.005	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHROMIUM, TOTAL	mg/L	0.1	N/R	0.0025	0.0011	ND	0.0046	0.0065	0.013	0.0096	0.0075	0.0084	0.0039	0.0044	0.0088	ND	0.0064	
COBALT, TOTAL	mg/L	N/R	N/R	0.0025	0.0004	ND (0.0019 J)	ND	ND	ND	ND	ND	ND (0.00096 J)	ND	ND	ND	ND (0.0012 J)	ND	
COPPER, TOTAL	mg/L	1.3	N/R	0.0025	0.0021	ND	ND	ND	ND	ND	ND	0.0039	ND	ND	ND	ND	ND	
LEAD, TOTAL	mg/L	0.015	N/R	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MERCURY, TOTAL	mg/L	0.002	N/R	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
NICKEL, TOTAL	mg/L	0.1	N/R	0.0025	0.0018	ND	ND	ND	ND	ND	ND	0.0036	ND	ND	ND	ND	ND	
SELENIUM, TOTAL	mg/L	0.05	N/R	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	ND	
SILVER, TOTAL	mg/L	0.1	N/R	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
THALLIUM, TOTAL	mg/L	0.002	N/R	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VANADIUM, TOTAL	mg/L	N/R	N/R	0.0025	0.0014	ND	0.007	0.0051	0.017	0.016	0.0076	0.011	ND (0.002 J)	0.012	0.013	0.003	0.019	
ZINC, TOTAL	mg/L	5	N/R	0.02	6.5E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

**NOTES:**

1. Results bolded denote a MCL/SMCL exceedance.
2. mg/L - Milligrams per Liter
3. N/R - Indicates constituent does not have a recorded Maximum Contaminant Level.
4. MDL - Method Detection Limit.
5. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Observations are displayed with a J qualifier and are flagged as ND below the PQL.
6. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.



**TABLE 5A.**  
**ANALYTICAL DATA SUMMARY CELL 1 (APRIL 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	SCREENING/TARGET LEVELS				GROUNDWATER MONITORING WELLS							
	GA MCL	GA SMCL	RL	MDL	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	GWC-18	GWC-19	GWC-20
<b>APPENDIX III</b>	<b>Sample Date:</b>				3/27/2019	3/27/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019
BORON, TOTAL	N/R	N/R	0.05	0.021	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM, TOTAL	N/R	N/R	0.23	0.13	16	12	1.1	6.3	6.4	9.6	11	12
CHLORIDE, TOTAL	N/R	250	1.0	0.89	2.4	1.5	1.7	1.6	2.50	2.7	1.8	1.9
FLUORIDE, TOTAL	4	2	0.2	0.082	ND (0.077 J)	ND (0.048 J)	ND (0.026 J)	ND (0.04 J)	ND (0.034 J)	ND (0.046 J)	ND (0.04 J)	ND (0.045 J)
pH	5.5-7.5	N/R	N/R	N/R	6.53	6.22	5.25	5.89	5.63	6.38	6.35	6.52
SULFATE, TOTAL	N/R	250	1.0	0.7	1.6	ND	ND (0.49 J)	1.3	ND (0.64 J)	ND (0.39 J)	ND	ND (0.45 J)
TOTAL DISSOLVED SOLIDS	N/R	500	5.0	3.4	140	100	29	59	60	94	100	110
<b>STATE PARAMETERS</b>												
ANTIMONY, TOTAL	0.006	N/R	0.0025	0.001	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	0.01	N/R	0.0013	0.00046	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM, TOTAL	2	N/R	0.0025	0.00049	0.027	0.015	0.017	0.035	0.0092	0.033	0.018	0.03
BERYLLIUM, TOTAL	0.004	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	0.005	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	0.1	N/R	0.0025	0.0011	0.017	0.007	ND (0.0013 J)	0.0048	ND	0.014	0.0091	0.0092
COBALT, TOTAL	N/R	N/R	0.0025	0.0004	ND	ND	ND	ND	ND	ND	ND	ND
COPPER, TOTAL	1.3	N/R	0.0025	0.0021	ND	ND	ND	ND	ND	ND	ND	ND
LEAD, TOTAL	0.015	N/R	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	0.002	N/R	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	0.1	N/R	0.0025	0.0018	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM, TOTAL	0.05	N/R	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	ND
SILVER, TOTAL	0.1	N/R	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	0.002	N/R	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	N/R	N/R	0.0025	0.0014	0.012	0.012	0.0029	0.0041	0.0034	0.0094	0.0094	0.018
ZINC, TOTAL	5	N/R	0.02	6.5E-03	ND	ND	ND	ND	ND	ND	ND	ND

**NOTES:**

1. Results bolded denote a MCL/SMCL exceedance.
2. mg/L - Milligrams per Liter
3. N/R - Indicates constituent does not have a recorded Maximum Contaminant Level.
4. MDL - Method Detection Limit.
5. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Observations are displayed with a J qualifier and are flagged as ND below the PQL.
6. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

**TABLE 5B.**  
**ANALYTICAL DATA SUMMARY CELL 1 (September 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GA MCL	GA SMCL	RL	MDL	GROUNDWATER MONITORING WELLS											
						GWA-15	GWA-16	GWA-17	GWC-1	GWC-2	GWC-3	GWC-4	GWC-5	GWC-6	GWC-7	GWC-8A	GWC-9
<b>APPENDIX III</b>					<b>Sample Date:</b>	9/10/2019	9/10/2019	9/10/2019	9/10/2019	9/10/2019	9/10/2019	9/10/2019	9/11/2019	9/11/2019	9/11/2019	9/11/2019	9/11/2019
BORON, TOTAL	mg/L	N/R	N/R	0.05	0.021	ND	ND	ND	ND	ND	ND	ND	0.31	ND	ND	0.21	0.083
CALCIUM, TOTAL	mg/L	N/R	N/R	0.23	0.13	4.8	12	7.5	17	18	6.6	12	46	19	14	37	17
CHLORIDE, TOTAL	mg/L	N/R	250	1.0	0.89	5.2	1.4	1.3	2.9	1.7	2.5	5.1	19	7.2	2.1	7	3.4
FLUORIDE, TOTAL	mg/L	4	2	0.2	0.082	ND	ND (0.047 J)	ND (0.046 J)	ND (0.077 J)	ND (0.048 J)	ND (0.058 J)	ND (0.097 J)	ND (0.045 J)	ND (0.058 J)	ND (0.057 J)	ND (0.071 J)	ND (0.067 J)
pH	S.U.	5.5-7.5	N/R	N/R	N/R	<b>5.41</b>	6.58	6.31	6.51	6.39	5.99	6.31	5.82	6.23	6.35	6.72	6.63
SULFATE, TOTAL	mg/L	N/R	250	1.0	0.7	ND (0.65 J)	ND	ND (0.44 J)	ND (0.69 J)	ND (0.63 J)	ND (0.7 J)	1.7	130	12	ND (0.52 J)	32	9.6
TOTAL DISSOLVED SOLIDS	mg/L	N/R	500	5.0	3.4	42	75	51	130	140	66	93	310	120	100	210	130
<b>STATE PARAMETERS</b>																	
ANTIMONY, TOTAL	mg/L	0.006	N/R	0.0025	0.001	ND	ND	ND	ND	ND (0.00042 J)	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.01	N/R	0.0013	0.00046	ND (0.00032 J)	ND (0.00049 J)	ND (0.00069 J)	ND (0.00033 J)	ND (0.00038 J)	ND (0.00032 J)	ND (0.00032 J)	ND (0.00038 J)	ND (0.00041 J)	ND (0.00038 J)	ND (0.001 J)	ND (0.00055 J)
BARIUM, TOTAL	mg/L	2	N/R	0.0025	0.00049	0.011	0.039	0.051	0.04600	0.047	0.014	0.037	0.03900	0.059	0.035	0.022	0.02800
BERYLLIUM, TOTAL	mg/L	0.004	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.005	N/R	0.0025	0.00034	ND	ND	ND (0.00013 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	0.1	N/R	0.0025	0.0011	ND (0.0023 J)	0.0076	0.012	0.018	0.014	0.0092	0.0067	0.0079	0.0078	0.013	0.0052	0.012
COBALT, TOTAL	mg/L	N/R	N/R	0.0025	0.0004	ND (0.0012 J)	ND (0.00031 J)	ND (0.00052 J)	ND	ND (0.00015 J)	ND (0.00028 J)	ND	ND (0.000099 J)	ND (0.000087 J)	ND (0.00016 J)	ND (0.00085 J)	ND (0.00016 J)
COPPER, TOTAL	mg/L	1.3	N/R	0.0025	0.0021	ND	ND (0.00095 J)	ND (0.0012 J)	ND	ND	ND (0.0011 J)	ND (0.0017 J)	ND	ND (0.00066 J)	ND (0.00086 J)	ND	ND
LEAD, TOTAL	mg/L	0.015	N/R	0.0013	0.00035	ND	ND (0.00016 J)	ND (0.00022 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.002	N/R	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.1	N/R	0.0025	0.0018	ND (0.00081 J)	ND (0.00037 J)	0.0012	ND (0.00065 J)	0.0022	0.0016	ND (0.00079 J)	ND (0.0007 J)	ND (0.00099 J)	ND (0.00046 J)	0.0013	ND (0.00063 J)
SELENIUM, TOTAL	mg/L	0.05	N/R	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	0.0079	ND	ND	ND	ND
SILVER, TOTAL	mg/L	0.1	N/R	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	0.002	N/R	0.0005	8.5E-05	ND	ND (0.00021 J)	ND (0.00023 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/R	N/R	0.0025	0.0014	0.0022	0.01	0.0091	0.02	0.018	0.0078	0.0086	0.0047	0.012	0.015	0.0042	0.025
ZINC, TOTAL	mg/L	5	N/R	0.02	6.5E-03	0.006	ND (0.0047 J)	0.0084	ND (0.0038 J)	ND (0.004 J)	0.0069	0.006	0.0074	0.0062	0.0074	0.0052	ND (0.0037 J)

- NOTES:
1. Results bolded denote a MCL/SMCL exceedance.
  2. mg/L - Milligrams per Liter
  3. N/R - Indicates constituent does not have a recorded Maximum Contaminant Level.
  4. MDL - Method Detection Limit.
  5. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Observations are displayed with a J qualifier and are flagged as ND below the PQL.
  6. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

**TABLE 5B.**  
**ANALYTICAL DATA SUMMARY CELL 1 (September 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	GA MCL	GA SMCL	RL	MDL	GROUNDWATER MONITORING WELLS							
						GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	GWC-18	GWC-19	GWC-20
<b>APPENDIX III</b>						<b>Sample Date:</b>							
						9/11/2019	9/11/2019	9/11/2019	9/11/2019	9/11/2019	9/11/2019	9/12/2019	9/12/2019
BORON, TOTAL	mg/L	N/R	N/R	0.05	0.021	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM, TOTAL	mg/L	N/R	N/R	0.23	0.13	18	13	0.94	7	7.3	10	14	14
CHLORIDE, TOTAL	mg/L	N/R	250	1.0	0.89	2.9	1.8	1.9	1.5	3.10	2.6	1.5	1.6
FLUORIDE, TOTAL	mg/L	4	2	0.2	0.082	ND (0.067 J)	ND (0.054 J)	ND (0.039 J)	ND (0.051 J)	ND (0.045 J)	ND (0.055 J)	ND (0.032 J)	ND (0.044 J)
pH	S.U.	5.5-7.5	N/R	N/R	N/R	6.32	6.17	<b>5.1</b>	5.89	5.59	6.37	6.39	6.57
SULFATE, TOTAL	mg/L	N/R	250	1.0	0.7	1.8	ND (0.63 J)	ND (0.5 J)	ND (0.81 J)	ND (0.5 J)	ND (0.61 J)	ND	ND
TOTAL DISSOLVED SOLIDS	mg/L	N/R	500	5.0	3.4	110	94	14	33	26	77	70	84
<b>STATE PARAMETERS</b>													
ANTIMONY, TOTAL	mg/L	0.006	N/R	0.0025	0.001	ND	ND	ND	ND	ND	ND (0.00039 J)	ND	ND
ARSENIC, TOTAL	mg/L	0.01	N/R	0.0013	0.00046	ND (0.00055 J)	ND (0.00045 J)	ND (0.00038 J)	ND (0.00042 J)	ND (0.00045 J)	ND (0.00043 J)	ND	ND
BARIUM, TOTAL	mg/L	2	N/R	0.0025	0.00049	0.033	0.017	0.017	0.03500	0.011	0.035	0.026	0.035
BERYLLIUM, TOTAL	mg/L	0.004	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.005	N/R	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	0.1	N/R	0.0025	0.0011	0.023	0.011	0.0036	0.0075	0.0038	0.017	0.012	0.011
COBALT, TOTAL	mg/L	N/R	N/R	0.0025	0.0004	ND	ND	ND (0.00042 J)	ND	ND	ND (0.00023 J)	ND (0.00021 J)	ND (0.00021 J)
COPPER, TOTAL	mg/L	1.3	N/R	0.0025	0.0021	ND	ND	ND	ND	ND	ND (0.00084 J)	N/A	N/A
LEAD, TOTAL	mg/L	0.015	N/R	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.002	N/R	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.1	N/R	0.0025	0.0018	0.0016	ND (0.00066 J)	ND (0.00084 J)	ND (0.00039 J)	ND	ND (0.00048 J)	0.0015	ND (0.00097 J)
SELENIUM, TOTAL	mg/L	0.05	N/R	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	ND
SILVER, TOTAL	mg/L	0.1	N/R	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	0.002	N/R	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/R	N/R	0.0025	0.0014	0.017	0.015	0.0052	0.0062	0.0062	0.011	0.0083	0.02
ZINC, TOTAL	mg/L	5	N/R	0.02	6.5E-03	ND (0.004 J)	0.0072	0.0065	8.5E-03	ND (0.0038 J)	0.0077	0.0059	0.0065

**NOTES:**

1. Results bolded denote a MCL/SMCL exceedance.
2. mg/L - Milligrams per Liter
3. N/R - Indicates constituent does not have a recorded Maximum Contaminant Level.
4. MDL - Method Detection Limit.
5. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Observations are displayed with a J qualifier and are flagged as ND below
6. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

**TABLE 6A.**  
**ANALYTICAL DATA SUMMARY PAC ASH CELL (MARCH 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**

Analyte	Units	SCREENING/TARGET LEVELS				GROUNDWATER MONITORING WELLS											
		GA MCL	GA SMCL	PQL	MDL	GWA-21	GWA-22	GWA-45	GWA-46	GWA-47	GWA-48	GWA-49	GWC-29	GWC-50	GWC-51	GWC-52	GWC-53
<b>APPENDIX III</b>		<b>Sample Date:</b>				3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/27/2019	3/28/2019	3/28/2019
BORON, TOTAL	mg/L	N/A	N/A	0.05	0.021	ND	ND	0.74	ND	ND	ND	ND	ND	ND	ND	ND	0.97
CALCIUM, TOTAL	mg/L	N/A	N/A	0.23	0.13	9.5	7.1	39	6.1	11	13	15	11	7.2	7.0	15	18
CHLORIDE, TOTAL	mg/L	N/A	250	1.0	0.89	2.9	2.0	9.6	3.7	1.2	1.5	1.9	2.8	1.8	7.0	7.5	12
FLUORIDE, TOTAL	mg/L	4.0	2.0	0.2	0.082	ND (0.035 J)	ND (0.036 J)	ND	ND (0.033 J)	ND (0.041 J)	ND (0.040 J)	ND (0.037 J)	ND (0.033 J)	ND (0.042 J)	ND	ND (0.039 J)	ND
pH	S.U.	5.5-7.5	N/A	N/A	N/A	5.97	6.04	6.31	5.95	6.52	6.86	6.91	5.95	5.71	5.94	6.71	5.67
SULFATE, TOTAL	mg/L	N/A	250	1.0	0.7	ND (0.81 J)	ND	140	ND (0.52 J)	ND	1.6	ND (0.56 J)	3.2	ND (0.38 J)	2.7	29	170
TOTAL DISSOLVED SOLIDS	mg/L	N/A	500	5	3.4	98	76	290	66	94	100	120	88	65	76	140	280
<b>STATE PARAMETERS</b>																	
ANTIMONY, TOTAL	mg/L	0.006	N/A	0.0025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.01	N/A	0.0013	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM, TOTAL	mg/L	2.0	N/A	0.0025	0.00049	0.024	0.022	0.057	0.021	0.026	0.013	0.019	0.017	0.012	0.011	0.014	0.045
BERYLLIUM, TOTAL	mg/L	0.004	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.005	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	0.1	N/A	0.0025	0.0011	0.0030	0.0078	ND	0.0048	0.0081	0.0051	0.0056	ND (0.0012 J)	0.0043	0.0044	0.019	ND
COBALT, TOTAL	mg/L	N/A	N/A	0.0025	0.0004	ND	ND	ND (0.00083 J)	ND	ND	ND	ND	ND	ND	ND	ND	0.011
COPPER, TOTAL	mg/L	N/A	1.0	1.3	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LEAD, TOTAL	mg/L	N/A	N/A	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.002	N/A	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.1	N/A	0.0025	0.0018	ND	ND	ND	ND	ND	ND	ND	0.0038	ND	ND (0.0024 J)	ND	0.0069
SELENIUM, TOTAL	mg/L	0.05	N/A	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER, TOTAL	mg/L	N/A	0.1	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	0.002	N/A	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0014	0.0072	0.0071	ND (0.0023 J)	0.0072	0.012	0.022	0.021	0.0079	0.0053	0.0087	0.010	0.0041
ZINC, TOTAL	mg/L	N/A	5.0	0.02	6.5E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (0.013 J)

**NOTES:**

1. Results bolded denote a MCL exceedance.
2. S.U. - Standard Unit
3. mg/L - Milligrams per Liter
4. N/A - Indicates constituent does not have a Maximum or Secondary Contaminant Limit
5. MDL - Method Detection Limit
6. PQL - Practical Quantitation Limit
7. J - Result is an estimated value. The result is greater than or equal to the MDL and less than the PQL.
8. ND - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect.
9. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.



**TABLE 6B.**  
**ANALYTICAL DATA SUMMARY PAC ASH CELL (SEPTEMBER 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	SCREENING/TARGET LEVELS				GROUNDWATER MONITORING WELLS											
		GA MCL	GA SMCL	RL	MDL	GWA-21	GWA-22	GWA-45	GWA-46	GWA-47	GWA-48	GWA-49	GWC-29	GWC-50	GWC-51	GWC-52	GWC-53
<b>APPENDIX III</b>		<b>Sample Date:</b>				9/12/2019	9/12/2019	9/13/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/13/2019	9/12/2019	9/12/2019	9/13/2019
BORON, TOTAL	mg/L	N/R	N/R	0.050	0.039	0.053	ND	0.91	ND	ND	ND	ND	ND	ND	ND	ND	0.94
CALCIUM, TOTAL	mg/L	N/R	N/R	0.25	0.13	8.8	6.1	36	5.7	12	13	14	12.0	7.5	7.1	17	18.0
CHLORIDE, TOTAL	mg/L	N/R	250	1.0	0.71	3.4	2.5	10.0	4.3	1.4	1.7	1.9	3	1.8	6.8	7.7	11
FLUORIDE, TOTAL	mg/L	4.0	2.0	0.10	0.026	ND (0.04 J)	ND (0.043 J)	ND (0.026 J)	ND	ND (0.041 J)	ND (0.044 J)	ND (0.042 J)	ND (0.042 J)	ND (0.028 J)	ND (0.028 J)	ND (0.042 J)	ND
pH	S.U.	5.5-7.5	N/R	N/R	N/R	5.83	5.87	5.96	5.83	6.49	6.78	6.82	5.98	5.78	5.86	6.68	5.55
SULFATE, TOTAL	mg/L	N/R	250	1.0	0.38	1.3	ND (0.38 J)	170	ND (0.61 J)	ND (0.4 J)	1.2	ND (0.77 J)	3.2	ND	ND (0.65 J)	34	170
TOTAL DISSOLVED SOLIDS	mg/L	N/R	500	10	10	130	72	340	97	88	110	120	110	89	110	160	300
<b>STATE PARAMETERS</b>																	
ANTIMONY, TOTAL	mg/L	0.006	N/R	0.0025	0.00038	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.01	N/R	0.0013	0.00032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM, TOTAL	mg/L	2.0	N/R	0.01	0.0016	0.025	0.023	0.1	0.022	0.028	0.016	0.022	0.019	0.0130	0.011	0.017	0.043
BERYLLIUM, TOTAL	mg/L	0.004	N/R	0.0025	0.00018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.005	N/R	0.0025	0.00013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	0.1	N/R	0.0025	0.0015	0.0047	0.0092	ND	0.0051	0.0088	0.0085	0.0075	ND (0.0021 J)	0.0060	0.0043	0.027	ND (0.002 J)
COBALT, TOTAL	mg/L	N/R	N/R	0.0025	0.000075	ND (0.0004 J)	ND	ND (0.0018 J)	ND (0.000095 J)	ND (0.00011 J)	ND	ND (0.00017 J)	ND	ND	ND (0.00012 J)	ND	0.011
COPPER, TOTAL	mg/L	N/R	1.0	0.002	0.00063	ND	ND	ND	ND	ND	ND (0.00083 J)	ND	ND	ND	ND	ND	ND
LEAD, TOTAL	mg/L	N/R	N/R	0.0010	0.00013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.002	N/R	0.0002	0.00010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.1	N/R	0.0010	0.00034	ND (0.00097 J)	ND	ND (0.00061 J)	ND (0.0004 J)	ND	ND	ND (0.00043 J)	0.0035	0.0012	0.0019	ND	0.007
SELENIUM, TOTAL	mg/L	0.05	N/R	0.0025	0.0015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER, TOTAL	mg/L	N/R	0.1	0.0010	0.00018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	0.002	N/R	0.0005	0.00015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/R	N/R	0.001	0.00099	0.0031	0.0025	0.0017	0.0033	0.0075	0.019	0.02	0.0054	0.0028	0.0047	0.011	ND
ZINC, TOTAL	mg/L	N/R	5.0	0.0050	0.0032	ND (0.0046 J)	0.0085	0.0095	0.0091	ND (0.0049 J)	ND (0.0048 J)	ND (0.0041 J)	0.0058	0.0057	ND (0.0042 J)	0.0073	0.02

**NOTES:**

1. Results bolded denote a MCL/SMCL exceedance.
2. mg/L - Milligrams per Liter
3. N/R - Indicates constituent does not have a recorded Maximum Contaminant Level.
4. MDL - Method Detection Limit.
5. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL). Observations are displayed with a J qualifier and are flagged as ND below the PQL.
6. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

**TABLE 7A.**  
**SURFACE WATER ANALYTICAL DATA SUMMARY (APRIL 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**



Analyte	Units	Screening / Target Levels				SURFACE WATER SAMPLING LOCATIONS							
		GA SWS		PQL	MDL	SWA-1	SWA-2	SWA-3	SWC-4	SWC-5	SWC-6	SWC-7	SWC-8
Sample Date:		Chronic	Acute					4/1/2019	4/1/2019	4/1/2019	4/1/2019	4/1/2019	4/1/2019
<b>FIELD MONITORING PARAMETERS</b>													
pH	SU	6.0-8.5	6.0-8.5	N/A	N/A	NS	6.77	7.07	7.20	6.80	7.42	7.37	7.12
ORP	mV	N/A	N/A	N/A	N/A	NS	89.1	82.2	90.6	101.0	72.0	94.0	96.0
SPECIFIC CONDUCTANCE	us/cm	N/A	N/A	N/A	N/A	NS	552.3	279.4	349.4	367.6	123.2	323.1	425.6
DISSOLVED OXYGEN	mg/L	>5.0	>5.0	N/A	N/A	NS	8.82	9.48	9.51	12.55	9.52	11.03	9.11
TEMPERATURE	C	N/A	N/A	N/A	N/A	NS	17.32	17.54	16.40	19.86	17.22	15.94	17.76
TURBIDITY	NTU	N/A	N/A	N/A	N/A	NS	3.60	2.80	3.26	1.09	11.6	3.64	3.81
<b>APPENDIX III</b>													
BORON, TOTAL	mg/L	N/A	N/A	0.1	0.021	NS	1.2	0.59	0.63	0.061	ND	0.51	0.87
CALCIUM, TOTAL	mg/L	N/A	N/A	0.2	0.13	NS	35	13	22	37	10	23	26
CHLORIDE, TOTAL	mg/L	N/A	N/A	1.0	0.89	NS	12	10	8.1	16	2.3	8.7	9.9
FLUORIDE, TOTAL	mg/L	N/A	N/A	0.2	0.082	NS	ND (0.028 J)	ND	ND	ND (0.12 J)	ND (0.037 J)	ND (0.081 J)	ND
SULFATE, TOTAL	mg/L	N/A	N/A	1	0.7	NS	200	88	110	63	1.3	87	140
TOTAL DISSOLVED SOLIDS	mg/L	N/A	N/A	5.0	3.4	NS	400	210	250	260	100	230	300
<b>STATE REQUIRED INORGANICS</b>													
CHEMICAL OXYGEN DEMAND	mg/L	N/A	N/A	10.0	6.4	NS	19	15	N/S	N/S	N/S	ND	N/S
CYANIDE, TOTAL	mg/L	N/A	N/A	0.0	0.005	NS	ND	ND	N/S	N/S	N/S	ND	N/S
TOTAL ORGANIC CARBON	mg/L	N/A	N/A	1.0	0.5	NS	1.4	ND (0.67 J)	N/S	N/S	N/S	1.7	N/S
<b>STATE REQUIRED METALS</b>													
ANTIMONY, TOTAL	mg/L	N/A	N/A	0.0025	0.001	NS	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.15	0.34	0.0013	0.00046	NS	ND	ND	ND	ND	ND (0.0010 J)	ND (0.0011 J)	ND (0.00081 J)
BARIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.00049	NS	0.070	0.044	0.051	0.032	0.032	0.058	0.061
BERYLLIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.00034	NS	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.0013	0.002	0.0025	0.00034	NS	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0011	NS	ND	ND	ND	0.0035	ND (0.0013 J)	ND	ND
COBALT, TOTAL	mg/L	N/A	N/A	0.0025	0.0004	NS	0.0054	0.0041	ND (0.0020 J)	ND	0.0032	ND (0.00043 J)	0.0049
COPPER, TOTAL	mg/L	0.005	0.007	0.0025	0.0021	NS	ND	ND	ND	ND	ND	ND (0.0023 J)	ND
LEAD, TOTAL	mg/L	0.0012	0.03	0.0013	0.00035	NS	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.000012	0.0014	0.0002	0.00007	NS	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.029	0.26	0.0025	0.0018	NS	ND	ND	ND	ND	ND	ND	ND
SELENIUM, TOTAL	mg/L	0.005	N/A	0.0013	0.00024	NS	ND	ND	ND	0.0035	ND	ND	ND
SILVER, TOTAL	mg/L	N/A	N/A	0.00025	0.00011	NS	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	N/A	N/A	0.0005	8.5E-05	NS	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0014	NS	0.0030	0.0037	0.0044	0.0087	0.0081	0.0072	0.0056
ZINC, TOTAL	mg/L	0.065	0.065	0.02	6.5E-03	NS	ND	ND	ND	ND	ND	ND	ND

**NOTES:**

1. mg/L - Milligrams per Liter; SU - Standard Units; mV - millivolts; C - degrees Celcius; NTU - Nephelometric Turbidity Unit
2. PQL = Practical Quantitation Limit
3. MDL - Method Detection Limit.
4. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
5. ND - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect.
6. N/A - Not Applicable. No Screening Limit Available.
7. N/S - Not sampled as per the site D&O Plan. Locations SWA-1, SWA-2, SWA-3, and SWC-7 only are sampled for COD, Chloride, Cyanide, & TOC; or no samples collected because location was dry at the time of sampling.
8. GASWS = Georgia Surface Water Quality Standards

**TABLE 7B.**  
**SURFACE WATER ANALYTICAL DATA SUMMARY (SEPTEMBER 2019)**  
**GPC PLANT SCHERER**  
**JULIETTE, GEORGIA**

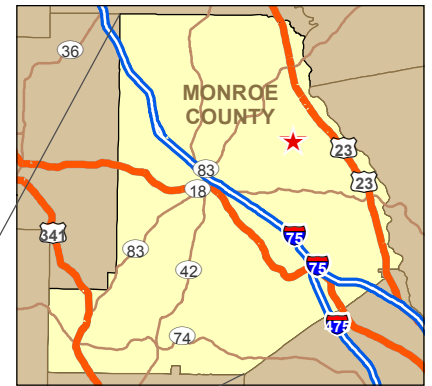
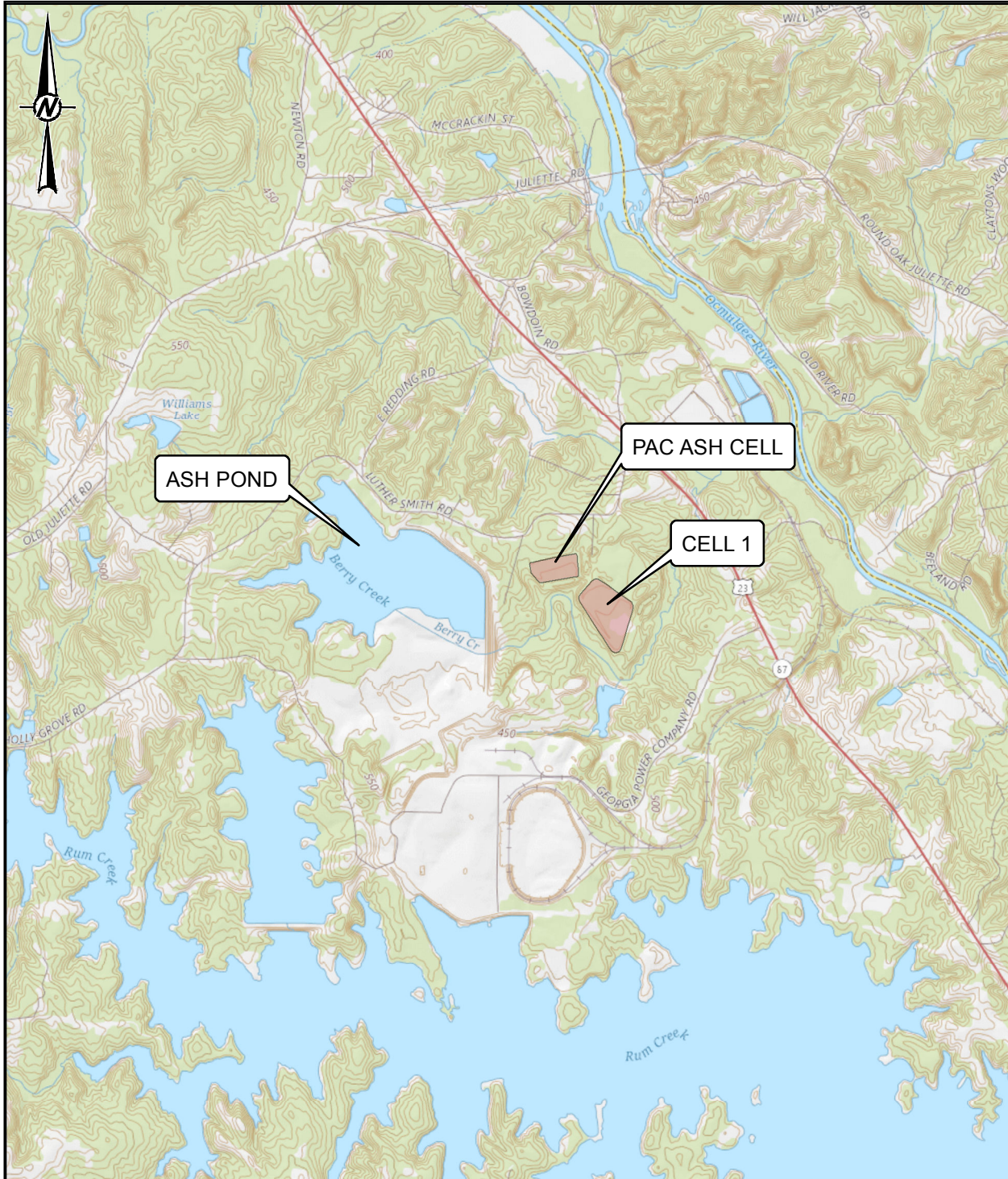


Analyte	Units	Screening / Target Levels				SURFACE WATER SAMPLING LOCATION/S							
		GA SWS		PQL	MDL	SWA-1	SWA-2	SWA-3	SWC-4	SWC-5	SWC-6	SWC-7	SWC-8
		Chronic	Acute			9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019	9/12/2019
<b>FIELD MONITORING PARAMETERS</b>													
pH	SU	6.0-8.5	6.0-8.5	N/A	N/A	N/S	7.24	7.48	7.50	7.26	7.57	7.47	7.29
ORP	mV	N/A	N/A	N/A	N/A	N/S	86.1	72.9	131	84.4	64.6	86.9	81.1
SPECIFIC CONDUCTANCE	us/cm	N/A	N/A	N/A	N/A	N/S	886.8	235.7	380.8	315.7	156.5	326.7	520.6
DISSOLVED OXYGEN	mg/L	>5.0 <sup>[3]</sup>	>5.0 <sup>[3]</sup>	N/A	N/A	N/S	7.2	7.66	7.42	5.74	8.24	6.56	6.53
TEMPERATURE	C	N/A	N/A	N/A	N/A	N/S	24.58	23.88	24.15	22.95	23.01	24.24	24.05
TURBIDITY	NTU	N/A	N/A	N/A	N/A	N/S	1.21	2.47	1.68	12.9	21.7	4.62	2.79
<b>APPENDIX III</b>													
BORON, TOTAL	mg/L	N/A	N/A	0.1	0.021	N/S	2.1	0.38	0.58	0.057	ND	0.43	1.1
CALCIUM, TOTAL	mg/L	N/A	N/A	0.2	0.13	N/S	62	15	25	33	15	25	34
CHLORIDE, TOTAL	mg/L	N/A	N/A	1.0	0.89	N/S	10	8.5	5.4	9.9	1.9	6	8.4
FLUORIDE, TOTAL	mg/L	N/A	N/A	0.2	0.082	N/S	ND (0.054 J)	ND (0.033 J)	ND (0.049 J)	0.13	ND (0.063 J)	0.13	ND (0.050 J)
SULFATE, TOTAL	mg/L	N/A	N/A	1	0.7	N/S	390	48	77	38	ND (0.82 J)	65	170
TOTAL DISSOLVED SOLIDS	mg/L	N/A	N/A	5.0	3.4	N/S	620	110	250	250	100	220	370
<b>STATE REQUIRED INORGANICS</b>													
CHEMICAL OXYGEN DEMAND	mg/L	N/A	N/A	10.0	6.4	N/S	32	22	N/S	N/S	N/S	ND	N/S
CYANIDE, TOTAL	mg/L	N/A	N/A	0.010	0.0044	N/S	ND	ND	N/S	N/S	N/S	ND	N/S
TOTAL ORGANIC CARBON	mg/L	N/A	N/A	1.0	0.5	N/S	1.8	ND (0.89 J)	N/S	N/S	N/S	2.1	N/S
<b>STATE REQUIRED METALS</b>													
ANTIMONY, TOTAL	mg/L	N/A	N/A	0.0025	0.00038	N/S	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.15	0.34	0.0013	0.00032	N/S	ND	ND	ND	ND	ND	ND (0.00049 J)	ND
BARIIUM, TOTAL	mg/L	N/A	N/A	0.010	0.0016	N/S	0.094	0.036	0.046	0.045	0.023	0.059	0.063
BERYLLIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.00018	N/S	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.0013	0.002	0.0025	0.00013	N/S	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0015	N/S	ND	ND (0.0020 J)	ND	0.0037	ND (0.0024 J)	ND	ND (0.0015 J)
COBALT, TOTAL	mg/L	N/A	N/A	0.0025	0.000075	N/S	ND (0.0018 J)	ND (0.00083 J)	ND (0.00064 J)	ND (0.0014 J)	ND (0.00067 J)	ND (0.00046 J)	ND (0.0014 J)
COPPER, TOTAL	mg/L	0.005	0.007	0.002	0.00063	N/S	ND	ND	ND	ND (0.0012 J)	ND	ND (0.0010 J)	ND
LEAD, TOTAL	mg/L	0.0012	0.03	0.001	0.00013	N/S	ND	ND	ND	ND (0.00024 J)	ND	ND (0.00014 J)	ND
MERCURY, TOTAL	mg/L	0.000012	0.0014	0.0002	0.0001	N/S	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.029	0.26	0.001	0.00034	N/S	ND (0.00064 J)	ND (0.00068 J)	ND	ND (0.00055 J)	ND	ND (0.00050 J)	ND (0.00042 J)
SELENIUM, TOTAL	mg/L	0.005	N/A	0.0025	0.0015	N/S	ND	ND	ND	ND (0.0024 J)	ND	ND	ND
SILVER, TOTAL	mg/L	N/A	N/A	0.0010	0.00011	N/S	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	N/A	N/A	0.0005	0.00015	N/S	ND	ND	ND	ND	ND	ND (0.00020 J)	ND (0.00023 J)
VANADIUM, TOTAL	mg/L	N/A	N/A	0.001	0.00099	N/S	ND	0.0017	0.0018	0.0076	0.0032	0.0034	0.0014
ZINC, TOTAL	mg/L	0.065	0.065	0.005	0.0032	N/S	ND (0.0043 J)	0.0054	ND (0.0047 J)	ND (0.0047 J)	ND (0.0042 J)	ND (0.0037 J)	ND (0.0037 J)

**NOTES:**

1. mg/L - Milligrams per Liter; SU - Standard Units; mV - millivolts; C - degrees Celcius; NTU - Nephelometric Turbidity Unit
2. PQL = Practical Quantitation Limit; MDL - Method Detection Limit.
3. Dissolved Oxygen Screening Limit: A daily average of 6.0 mg/L and no less than 5.0 g/L for designated waters.
4. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
5. ND - ConStituent was analyzed for, but was not detected above the MDL and is coN/Sidered a non-detect.
6. N/A - Not Applicable. No Screening Limit Available.
7. N/S - Not sampled as per the site D&O Plan. Location/S SWA-1, SWA-2, SWA-3, and SWC-7 only are sampled for COD, Chloride, Cyanide, & TOC; or no samples collected because location was dry at the time of sampling.
8. GASWS = Georgia Surface Water Quality Standards (391-3-6-.03)





Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National



CLIENT  
**GEORGIA POWER COMPANY**  
**PLANT SCHERER**



PROJECT  
**2018 1ST SEMI-ANNUAL GROUNDWATER MONITORING**  
**PLANT SCHERER**

TITLE  
**SITE LOCATION MAP**

CONSULTANT



YYYY-MM-DD	2018-01-31
PREPARED	DJC
DESIGN	DLP
REVIEW	<i>djp</i>
APPROVED	<i>rpk</i>

PROJECT No.  
**1662350**

CONTROL  
**1662350\000-GIS.mxd**






Rev.  
**0**

FIGURE  
**1**





**LEGEND**

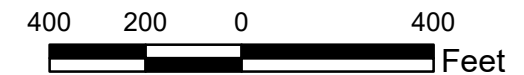
-  EXISTING TOPOGRAPHY
-  PROPERTY BOUNDARY
-  CELL 1 LANDFILL MONITORING WELL
-  PAC ASH LANDFILL MONITORING WELL
-  SURFACE WATER SAMPLE LOCATION

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

**REFERENCE**

1. SERVICE LAYER CREDITS: ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY  
SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



CLIENT  
GEORGIA POWER COMPANY  
PLANT SCHERER



PROJECT  
LANDFILL REPORT

TITLE  
**SITE PLAN AND MONITORING WELL LOCATION MAP**

CONSULTANT	YYYY-MM-DD	2016-12-08
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

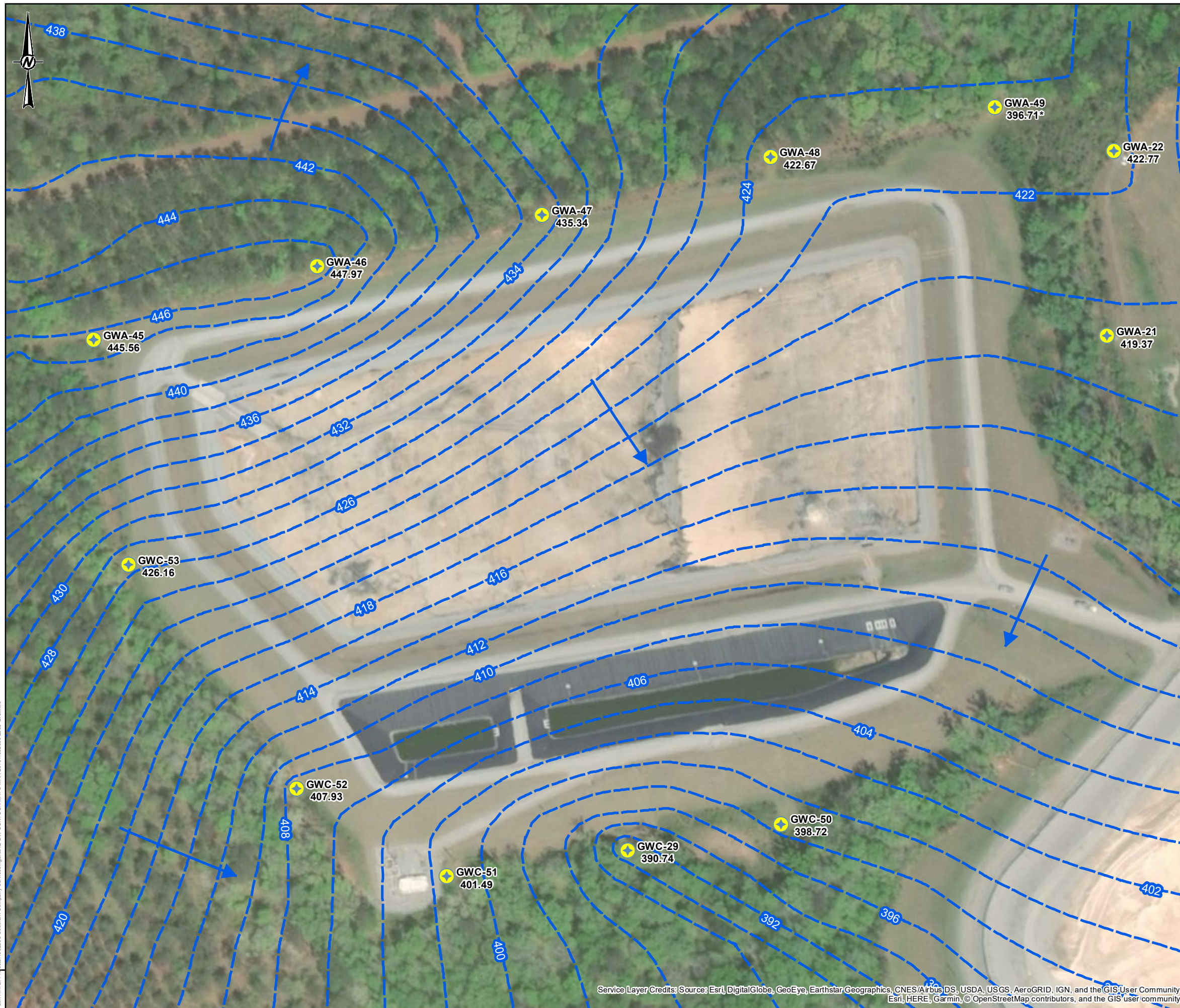
PROJECT No. 1662350 CONTROL 1662350A001-GIS.mxd Rev. 0 FIGURE 2

Path: H:\166k-Projects\1662350-Southern Company Services\figureA-GW CONTOUR MAPS\1662350A001-GIS.mxd

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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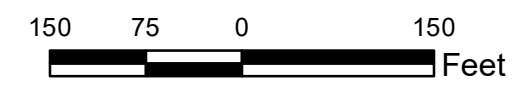




- LEGEND**
- - - GROUNDWATER ELEVATION CONTOUR (FAMSL)
  - EXISTING TOPOGRAPHY
  - ⊕ PAC ASH LANDFILL MONITORING WELL WITH ELEVATION
  - ➔ GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MARCH 25, 2019 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
  4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
  5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.
  6. GWA-49 NOT USED FOR CONTOURING.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY. ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
  2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
  3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
  4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).

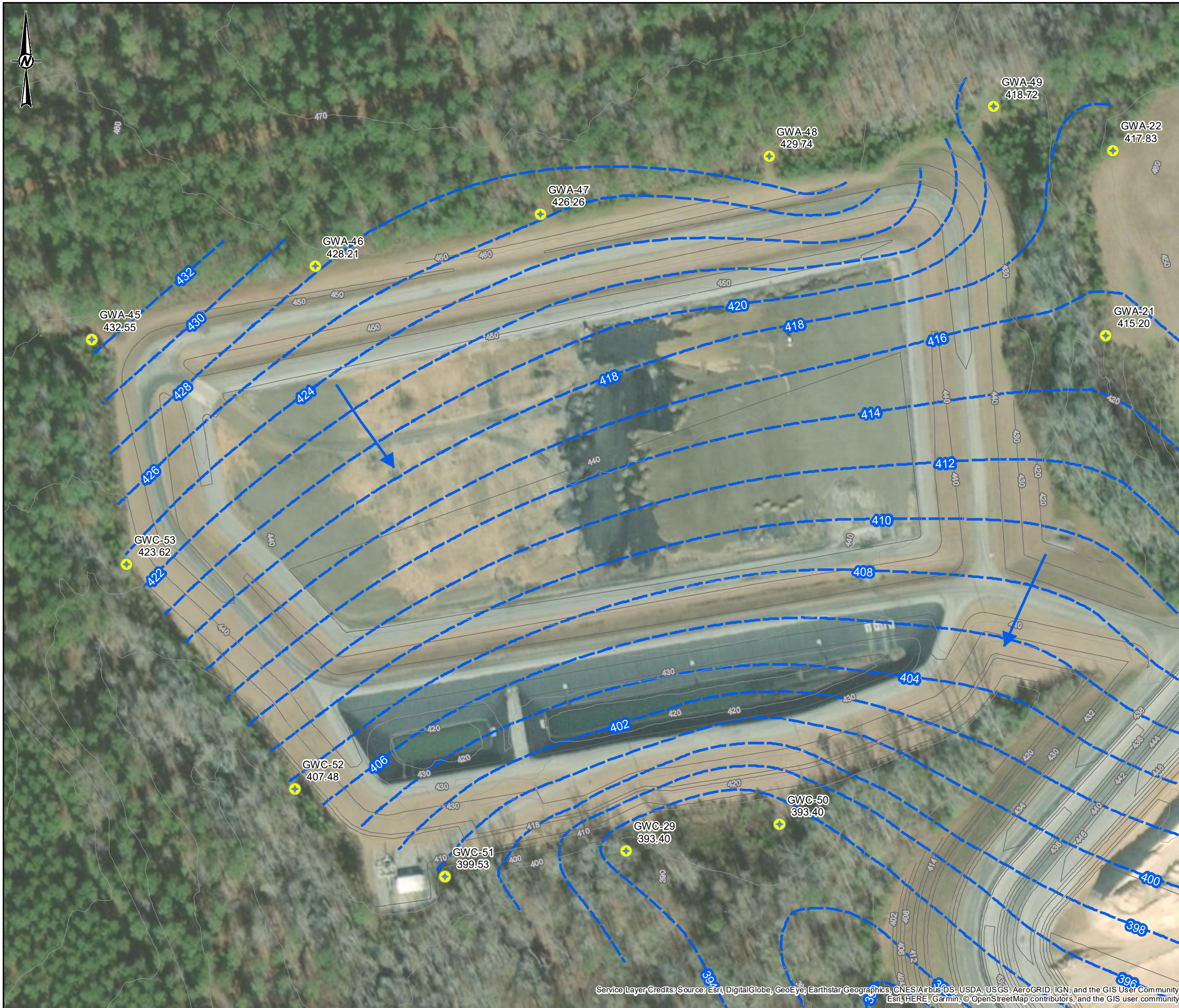


CLIENT		
GEORGIA POWER COMPANY PLANT SCHERER		
PROJECT		
SEMI-ANNUAL COMPLIANCE EVENT		
TITLE		
PAC ASH CELL POTENTIOMETRIC SURFACE MAP MARCH 25, 2019		
CONSULTANT	YYYY-MM-DD	2019-06-28
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	
APPROVED		

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
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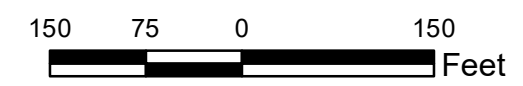




- LEGEND**
- PLANT\_SCHERER\_LOCATIONS
  - GROUNDWATER ELEVATION CONTOUR (FAMSL)
  - EXISTING TOPOGRAPHY
  - APPROXIMATE GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 9, 2019 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
  4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
  5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY. ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
  2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
  3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
  4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER

PROJECT  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**PAC ASH CELL POTENTIOMETRIC SURFACE**  
 SEPTEMBER 9, 2019

CONSULTANT	YYYY-MM-DD	2019-09-30
<b>GOLDER</b>	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

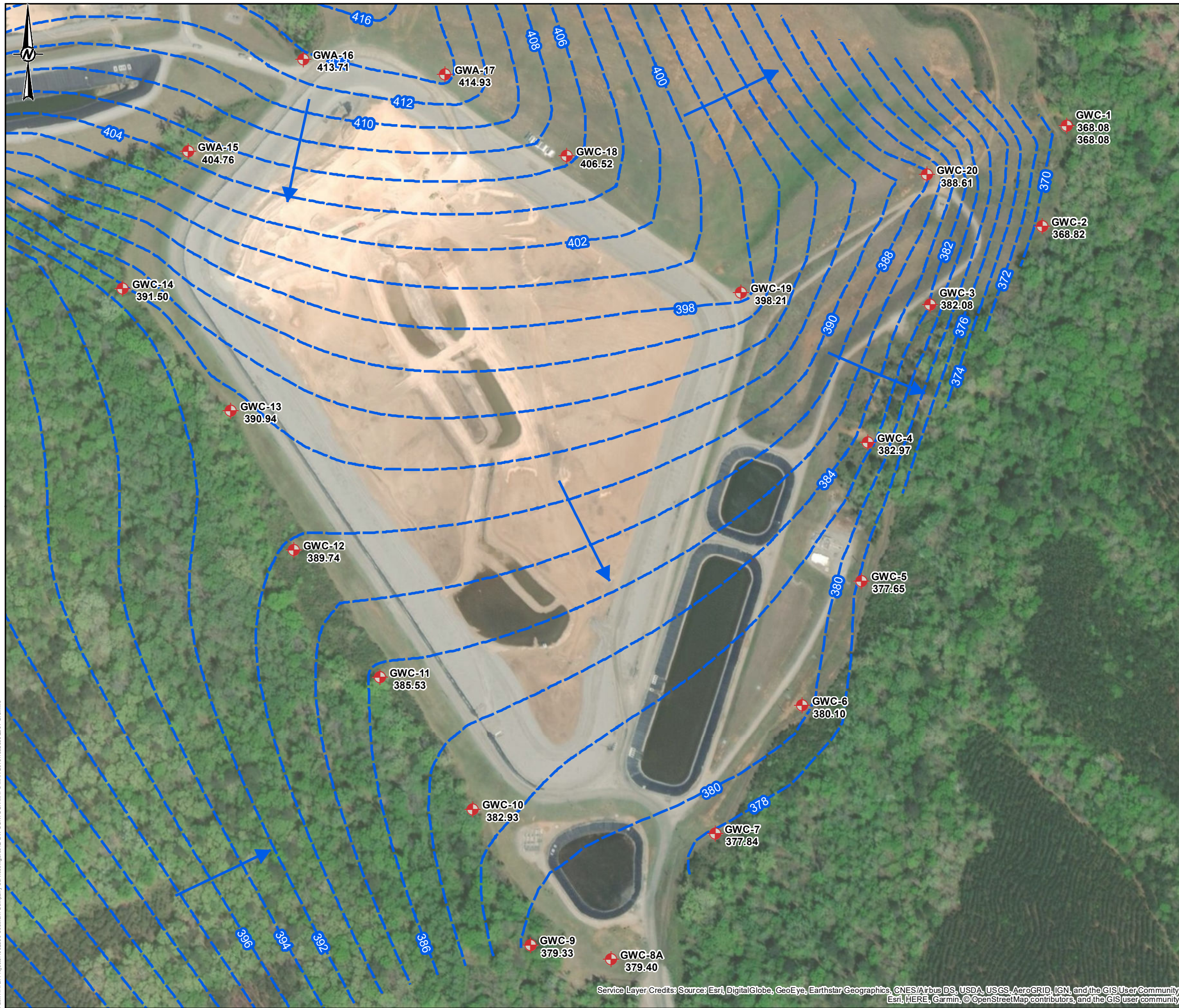
PROJECT No. 166235018 CONTROL 1662350T002-GIS.mxd Rev. 0 FIGURE **3B**

Path: H:\166235018\Projects\166235018\GIS\CONTOUR MAPS\SEPT 2019\1662350T002-GIS.mxd

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- LEGEND**
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
  - EXISTING TOPOGRAPHY
  - CELL 1 LANDFILL MONITORING WELL WITH ELEVATION
  - GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MARCH 25, 2019 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
  4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
  5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
  2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
  3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
  4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER

PROJECT  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**CELL 1 LANDFILL POTENTIOMETRIC SURFACE MAP**  
**MARCH 25, 2019**

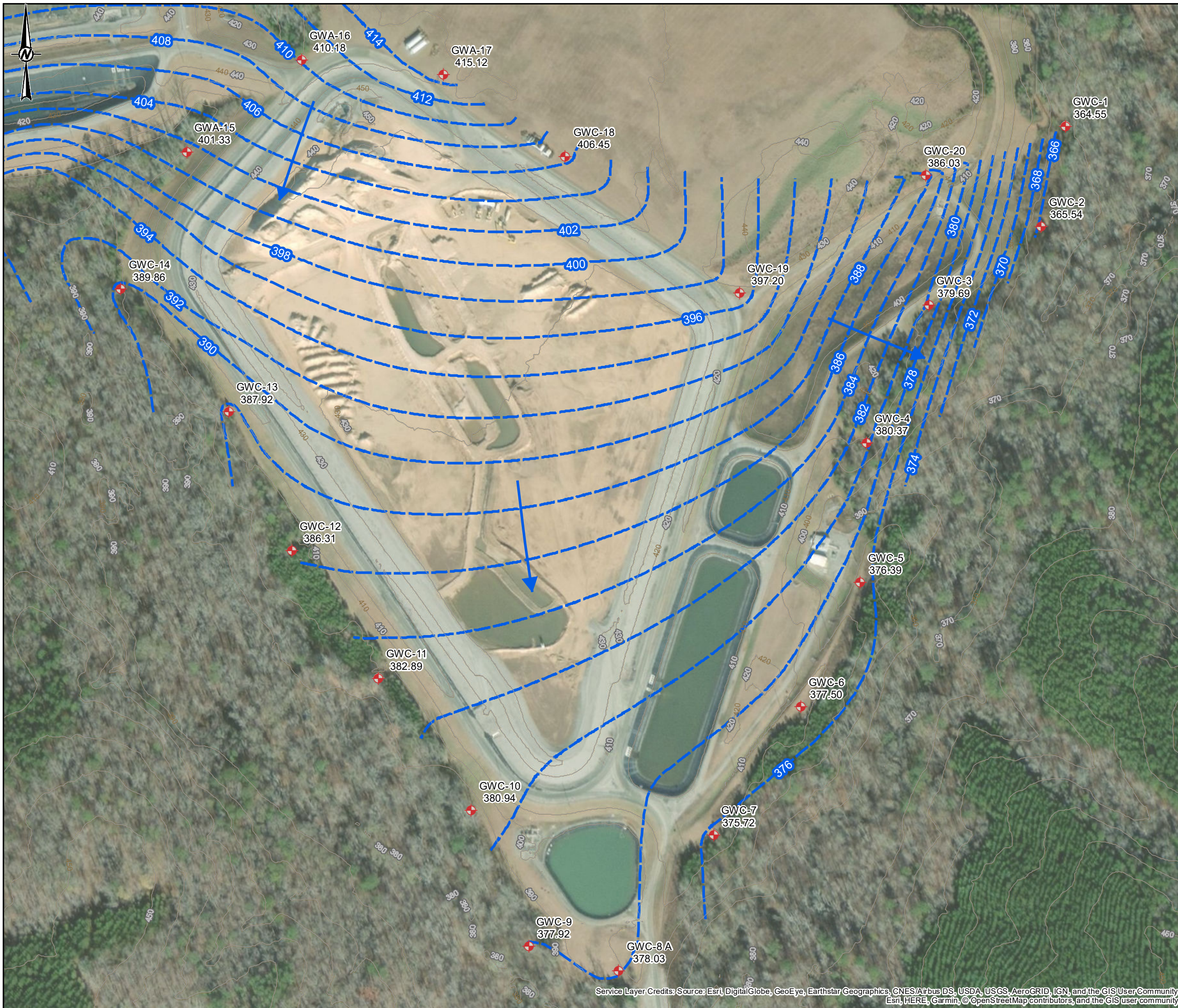
CONSULTANT	YYYY-MM-DD	2019-06-28
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	
	APPROVED	

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Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community

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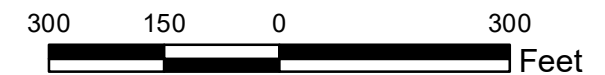




- LEGEND**
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
  - EXISTING TOPOGRAPHY
  - CELL 1 LANDFILL MONITORING WELL WITH ELEVATION
  - APPROXIMATE GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
  2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED SEPTEMBER 9, 2019 BY GOLDER ASSOCIATES.
  3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
  4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
  5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
  2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
  3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
  4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER

PROJECT  
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE  
**CELL 1 LANDFILL POTENTIOMETRIC SURFACE MAP**  
 SEPTEMBER 9, 2019

CONSULTANT	YYYY-MM-DD	2019-09-30
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	DLP
	APPROVED	RPK

PROJECT No. 166235018 CONTROL 1662350T003-GIS.mxd Rev. 0 FIGURE 4B

Path: H:\166235018\Projects\166235018\_Southern Company Services\figure\TGMV CONTOUR MAPS SEPT 2019\1662350T003-GIS.mxd

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**APPENDIX A**

**1st SEMI-ANNUAL 2019  
ANALYTICAL RESULTS, FIELD DATA FORMS &  
DATA VALIDATION SUMMARIES**

**ANALYTICAL RESULTS**

**CELL 1**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88203-1  
Laboratory Sample Delivery Group: Cell1 LF  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/15/2019 4:47:10 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416





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Sample Summary . . . . .	7
Method Summary . . . . .	8
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QC Association Summary . . . . .	45
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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

---

**Job ID: 180-88203-1**

---

**Laboratory: Eurofins TestAmerica, Pittsburgh**

---

## Narrative

### Job Narrative 180-88203-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/28/2019 8:45 AM and 3/29/2019 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 3.4° C, 3.7° C and 4.0° C.

#### Anions

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435790 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The laboratory control sample (LCS) for preparation batch 400-435839 and analytical batch 400-436341 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88203-1	GWA-15	Water	03/26/19 10:45	03/28/19 08:45
180-88203-2	GWA-16	Water	03/26/19 11:20	03/28/19 08:45
180-88203-3	GWA-17	Water	03/26/19 10:25	03/28/19 08:45
180-88203-4	GWC-1	Water	03/26/19 12:10	03/28/19 08:45
180-88203-5	GWC-2	Water	03/26/19 13:05	03/28/19 08:45
180-88203-6	GWC-3	Water	03/26/19 16:40	03/28/19 08:45
180-88203-7	GWC-4	Water	03/26/19 14:30	03/28/19 08:45
180-88203-8	GWC-6	Water	03/26/19 15:05	03/28/19 08:45
180-88203-9	GWC-12	Water	03/26/19 15:50	03/28/19 08:45
180-88203-10	GWC-13	Water	03/26/19 15:00	03/28/19 08:45
180-88203-11	GWC-14	Water	03/26/19 13:55	03/28/19 08:45
180-88203-12	GWC-18	Water	03/26/19 11:50	03/28/19 08:45
180-88203-13	GWC-19	Water	03/26/19 10:00	03/28/19 08:45
180-88203-14	GWC-20	Water	03/26/19 15:30	03/28/19 08:45
180-88203-15	EB-1 (LF)	Water	03/26/19 15:45	03/28/19 08:45
180-88203-16	EB-2 (LF)	Water	03/26/19 16:45	03/28/19 08:45
180-88203-17	FD-1 (LF)	Water	03/26/19 00:00	03/28/19 08:45
180-88203-18	FB-1 (LF)	Water	03/26/19 11:15	03/28/19 08:45
180-88290-1	GWC-5	Water	03/27/19 09:49	03/29/19 08:50
180-88290-2	GWC-7	Water	03/27/19 11:05	03/29/19 08:50
180-88290-3	GWC-8A	Water	03/27/19 10:20	03/29/19 08:50
180-88290-4	GWC-9	Water	03/27/19 12:29	03/29/19 08:50
180-88290-5	GWC-10	Water	03/27/19 11:42	03/29/19 08:50
180-88290-6	GWC-11	Water	03/27/19 10:50	03/29/19 08:50
180-88290-7	FB-2 (LF)	Water	03/27/19 10:55	03/29/19 08:50
180-88290-8	FD-2 (LF)	Water	03/27/19 00:00	03/29/19 08:50

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-15**  
**Date Collected: 03/26/19 10:45**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 10:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:32	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWA-16**  
**Date Collected: 03/26/19 11:20**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 07:33	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:36	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWA-17**  
**Date Collected: 03/26/19 10:25**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:20	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:39	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-1**  
**Date Collected: 03/26/19 12:10**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-2**  
**Date Collected: 03/26/19 13:05**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 11:49	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-3**  
**Date Collected: 03/26/19 16:40**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-4**

**Date Collected: 03/26/19 14:30**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:05	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-6**

**Date Collected: 03/26/19 15:05**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:21	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-12**

**Date Collected: 03/26/19 15:50**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:21	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-13**

**Date Collected: 03/26/19 15:00**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:25	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-14**

**Date Collected: 03/26/19 13:55**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-11**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:30	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-18**

**Date Collected: 03/26/19 11:50**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-12**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 10:11	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:33	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-19**  
**Date Collected: 03/26/19 10:00**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-13**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:37	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: GWC-20**  
**Date Collected: 03/26/19 15:30**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-14**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:00	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: EB-1 (LF)**  
**Date Collected: 03/26/19 15:45**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-15**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 06:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:04	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:37	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: EB-2 (LF)**

**Lab Sample ID: 180-88203-16**

**Date Collected: 03/26/19 16:45**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274458	04/01/19 06:55	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			435940	04/04/19 11:08	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 14:39	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

**Date Collected: 03/26/19 00:00**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274458	04/01/19 13:24	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			435940	04/04/19 11:12	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 14:40	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

**Date Collected: 03/26/19 11:15**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274458	04/01/19 07:10	MJH	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			435940	04/04/19 11:16	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 14:42	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-5**  
**Date Collected: 03/27/19 09:49**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:27	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:06	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-7**  
**Date Collected: 03/27/19 11:05**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:59	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:46	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:08	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-8A**  
**Date Collected: 03/27/19 10:20**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 11:15	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:50	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:10	JAP	TAL PEN
Instrument ID: HYDRA AA2										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-88290-4**

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 21:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-88290-5**

Date Collected: 03/27/19 11:42

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-88290-6**

Date Collected: 03/27/19 10:50

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 11:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:21	DRE	TAL PEN



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-11**  
**Date Collected: 03/27/19 10:50**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:25	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2 (LF)**  
**Date Collected: 03/27/19 10:55**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 13:21	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:27	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FD-2 (LF)**  
**Date Collected: 03/27/19 00:00**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 12:18	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:30	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:29	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001  
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-15**  
Date Collected: 03/26/19 10:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>5.5</b>		1.0	0.71	mg/L			04/01/19 10:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 10:30	1
<b>Sulfate</b>	<b>2.1</b>		1.0	0.38	mg/L			04/01/19 10:30	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Barium</b>	<b>0.0099</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:32	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Calcium</b>	<b>4.0</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Cobalt</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:32	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:32	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:32	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:32	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:32	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:32	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>45</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWA-16**  
Date Collected: 03/26/19 11:20  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			04/01/19 07:33	1
<b>Fluoride</b>	<b>0.041</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 07:33	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:33	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:36	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Calcium</b>	<b>11</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:36	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-16**  
Date Collected: 03/26/19 11:20  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0046</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:36	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:36	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:36	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Vanadium</b>	<b>0.0070</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:36	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:36	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWA-17**  
Date Collected: 03/26/19 10:25  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.3</b>		1.0	0.71	mg/L			04/01/19 08:20	1
<b>Fluoride</b>	<b>0.042</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 08:20	1
<b>Sulfate</b>	<b>0.58</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 08:20	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Barium</b>	<b>0.031</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:39	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Calcium</b>	<b>6.7</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Chromium</b>	<b>0.0065</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:39	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:39	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:39	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Vanadium</b>	<b>0.0051</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:39	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:39	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-17**  
Date Collected: 03/26/19 10:25  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-3**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-1**  
Date Collected: 03/26/19 12:10  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			04/01/19 08:36	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 08:36	1
Sulfate	0.53	J	1.0	0.38	mg/L			04/01/19 08:36	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:02	5
Barium	0.044		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:02	5
Chromium	0.013		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:02	5
Vanadium	0.017		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:02	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-2**  
Date Collected: 03/26/19 13:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 11:49	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-2**  
Date Collected: 03/26/19 13:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 11:49	1
Sulfate	0.99	J	1.0	0.38	mg/L			04/01/19 11:49	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:06	5
Barium	0.045		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Calcium	17		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:06	5
Chromium	0.0096		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:06	5
Vanadium	0.016		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:06	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-3**  
Date Collected: 03/26/19 16:40  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			04/01/19 08:52	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 08:52	1
Sulfate	0.47	J	1.0	0.38	mg/L			04/01/19 08:52	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:10	5
Barium	0.015		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Calcium	7.3		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:10	5
Chromium	0.0075		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:10	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-3**  
Date Collected: 03/26/19 16:40  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:10	5
<b>Vanadium</b>	<b>0.0076</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:10	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>86</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-4**  
Date Collected: 03/26/19 14:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.2</b>		1.0	0.71	mg/L			04/01/19 12:05	1
<b>Fluoride</b>	<b>0.087</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 12:05	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			04/01/19 12:05	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Barium</b>	<b>0.053</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Calcium</b>	<b>13</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Cobalt</b>	<b>0.00096</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Chromium</b>	<b>0.0084</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Copper</b>	<b>0.0039</b>		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Nickel</b>	<b>0.0036</b>		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Vanadium</b>	<b>0.011</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:13	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-4**  
Date Collected: 03/26/19 14:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-6**  
Date Collected: 03/26/19 15:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			04/01/19 12:21	1
Fluoride	0.058	J	0.20	0.026	mg/L			04/01/19 12:21	1
Sulfate	6.3		1.0	0.38	mg/L			04/01/19 12:21	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:18	5
Barium	0.052		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:18	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-12**  
Date Collected: 03/26/19 15:50  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 12:36	1
Fluoride	0.026	J	0.20	0.026	mg/L			04/01/19 12:36	1
Sulfate	0.49	J	1.0	0.38	mg/L			04/01/19 12:36	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-12**

**Lab Sample ID: 180-88203-9**

Date Collected: 03/26/19 15:50

Matrix: Water

Date Received: 03/28/19 08:45

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Barium</b>	<b>0.017</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:21	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Calcium</b>	<b>1.1</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Chromium</b>	<b>0.0013 J</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Vanadium</b>	<b>0.0029</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:21	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:21	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>29</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-13**

**Lab Sample ID: 180-88203-10**

Date Collected: 03/26/19 15:00

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.71	mg/L			04/01/19 12:52	1
<b>Fluoride</b>	<b>0.040 J</b>		0.20	0.026	mg/L			04/01/19 12:52	1
<b>Sulfate</b>	<b>1.3</b>		1.0	0.38	mg/L			04/01/19 12:52	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Barium</b>	<b>0.035</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:25	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Calcium</b>	<b>6.3</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Chromium</b>	<b>0.0048</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:25	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:25	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:25	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:25	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-13**  
Date Collected: 03/26/19 15:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-10**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Vanadium</b>	<b>0.0041</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:25	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:25	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>59</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-14**  
Date Collected: 03/26/19 13:55  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-11**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			04/01/19 13:08	1
<b>Fluoride</b>	<b>0.034</b>	J	0.20	0.026	mg/L			04/01/19 13:08	1
<b>Sulfate</b>	<b>0.64</b>	J	1.0	0.38	mg/L			04/01/19 13:08	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Barium</b>	<b>0.0092</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:30	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Calcium</b>	<b>6.4</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Vanadium</b>	<b>0.0034</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:30	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:30	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>60</b>		10	10	mg/L			03/29/19 13:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-18**  
Date Collected: 03/26/19 11:50  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-12**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/01/19 10:11	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 10:11	1
Sulfate	0.39	J	1.0	0.38	mg/L			04/01/19 10:11	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:33	5
Barium	0.033		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:33	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Calcium	9.6		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:33	5
Chromium	0.014		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:33	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:33	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:33	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:33	5
Vanadium	0.0094		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:33	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:33	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-19**  
Date Collected: 03/26/19 10:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-13**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/01/19 09:08	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 09:08	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 09:08	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:37	5
Barium	0.018		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:37	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:37	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-19**  
Date Collected: 03/26/19 10:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-13**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0091</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:37	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:37	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:37	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:37	5
<b>Vanadium</b>	<b>0.0094</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:37	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:37	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: GWC-20**  
Date Collected: 03/26/19 15:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-14**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.71	mg/L			04/01/19 09:24	1
<b>Fluoride</b>	<b>0.045</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 09:24	1
<b>Sulfate</b>	<b>0.45</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 09:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Barium</b>	<b>0.030</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:00	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Chromium</b>	<b>0.0092</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:00	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:00	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:00	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Vanadium</b>	<b>0.018</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:00	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:00	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-20**  
Date Collected: 03/26/19 15:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-14**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: EB-1 (LF)**  
Date Collected: 03/26/19 15:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-15**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:39	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:39	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:39	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:04	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:04	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:04	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:04	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:04	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:04	5
Vanadium	0.0025		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:04	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:04	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: EB-2 (LF)**  
Date Collected: 03/26/19 16:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-16**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: EB-2 (LF)**

**Lab Sample ID: 180-88203-16**

Date Collected: 03/26/19 16:45

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:55	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:55	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:08	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:08	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:08	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:08	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:08	5
<b>Vanadium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:08	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:08	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>12</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.0</b>		1.0	0.71	mg/L			04/01/19 13:24	1
<b>Fluoride</b>	<b>0.089</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:24	1
<b>Sulfate</b>	<b>3.0</b>		1.0	0.38	mg/L			04/01/19 13:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Barium</b>	<b>0.048</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:12	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Cobalt</b>	<b>0.00055</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Chromium</b>	<b>0.0069</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:12	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:12	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:12	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Copper</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Nickel</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Vanadium</b>	<b>0.010</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:12	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:12	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:12	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>130</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 07:10	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 07:10	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:10	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:16	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:16	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:16	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:16	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:16	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:16	5
<b>Vanadium</b>	<b>0.0026</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:16	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:16	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:42	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-88290-1**

Date Collected: 03/27/19 09:49

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			04/01/19 10:27	1
Fluoride	0.038	J	0.20	0.026	mg/L			04/01/19 10:27	1
Sulfate	260		5.0	1.9	mg/L			04/01/19 10:43	5

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:26	5
Barium	0.038		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:26	5
Boron	0.33	F1	0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Calcium	75		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:26	5
Chromium	0.0039		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:26	5
Selenium	0.023		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:26	5
Vanadium	0.0020	J	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:26	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10	10	mg/L			04/01/19 14:05	1

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-88290-2**

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 10:59	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 10:59	1
Sulfate	0.51	J	1.0	0.38	mg/L			04/01/19 10:59	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-88290-2**

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Barium</b>	<b>0.033</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:46	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Chromium</b>	<b>0.0088</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:46	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Vanadium</b>	<b>0.013</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:46	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:46	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			04/01/19 14:05	1

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>6.6</b>		1.0	0.71	mg/L			04/01/19 11:15	1
<b>Fluoride</b>	<b>0.071</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 11:15	1
<b>Sulfate</b>	<b>18</b>		1.0	0.38	mg/L			04/01/19 11:15	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0012</b>	<b>J</b>	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Barium</b>	<b>0.025</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Boron</b>	<b>0.16</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Calcium</b>	<b>47</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Cobalt</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:50	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:50	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Vanadium</b>	<b>0.0030</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:50	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:50	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>300</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-88290-4**

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.0</b>		1.0	0.71	mg/L			04/01/19 13:40	1
<b>Fluoride</b>	<b>0.066</b>	J	0.20	0.026	mg/L			04/01/19 13:40	1
<b>Sulfate</b>	<b>6.8</b>		1.0	0.38	mg/L			04/01/19 13:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00062</b>	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Barium</b>	<b>0.018</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Boron</b>	<b>0.067</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Calcium</b>	<b>16</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Chromium</b>	<b>0.0064</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Vanadium</b>	<b>0.019</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:54	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:54	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>140</b>		10	10	mg/L			04/01/19 14:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-88290-5**

Date Collected: 03/27/19 11:42

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/01/19 13:55	1
Fluoride	0.077	J	0.20	0.026	mg/L			04/01/19 13:55	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 13:55	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:18	5
Barium	0.027		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Calcium	16		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:18	5
Chromium	0.017		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:18	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:18	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-88290-6**

Date Collected: 03/27/19 10:50

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 11:30	1
Fluoride	0.048	J	0.20	0.026	mg/L			04/01/19 11:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 11:30	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:21	5
Barium	0.015		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:21	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Calcium	12		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:21	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-11**  
Date Collected: 03/27/19 10:50  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0070</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:21	5
<b>Vanadium</b>	<b>0.012</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:21	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:21	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FB-2 (LF)**

Date Collected: 03/27/19 10:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 13:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 13:21	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 13:21	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:26	5
<b>Vanadium</b>	<b>0.0033</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:26	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:26	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Client Sample ID: FB-2 (LF)

Date Collected: 03/27/19 10:55

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88290-7

Matrix: Water

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

## Client Sample ID: FD-2 (LF)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88290-8

Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.2		1.0	0.71	mg/L			04/01/19 12:18	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 12:18	1
Sulfate	17		1.0	0.38	mg/L			04/01/19 12:18	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00083	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:30	5
Barium	0.026		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:30	5
Boron	0.15		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Calcium	47		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:30	5
Vanadium	0.0035		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:30	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:30	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/01/19 14:55	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-274458/6**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 05:41	1

**Lab Sample ID: LCS 180-274458/5**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110
Fluoride	1.25	1.34		mg/L		108	90 - 110
Sulfate	25.0	27.1		mg/L		108	90 - 110

**Lab Sample ID: 180-88203-1 MS**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		25.0	30.5		mg/L		100	80 - 120
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120
Sulfate	2.1		25.0	25.7		mg/L		95	80 - 120

**Lab Sample ID: 180-88203-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.5		25.0	30.4		mg/L		100	80 - 120	0	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	1	20
Sulfate	2.1		25.0	25.7		mg/L		94	80 - 120	0	20

**Lab Sample ID: MB 180-274459/6**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

**Lab Sample ID: LCS 180-274459/5**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-88203-2 MS**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWA-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120
Fluoride	0.041	J	1.25	1.32		mg/L		102	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

**Lab Sample ID: 180-88203-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWA-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	28.2		mg/L		107	80 - 120	2	20
Fluoride	0.041	J	1.25	1.34		mg/L		104	80 - 120	2	20
Sulfate	<0.38		25.0	26.8		mg/L		107	80 - 120	2	20

**Lab Sample ID: 180-88290-6 MS**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWC-11**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.8		mg/L		105	80 - 120
Fluoride	0.048	J	1.25	1.34		mg/L		104	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

**Lab Sample ID: 180-88290-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWC-11**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120	0	20
Fluoride	0.048	J	1.25	1.33		mg/L		103	80 - 120	1	20
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120	0	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-435790/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:02	5

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435790/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:02	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:02	5

**Lab Sample ID: LCS 400-435790/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0492		mg/L		98	80 - 120
Barium	0.0500	0.0476		mg/L		95	80 - 120
Boron	0.100	0.104		mg/L		104	80 - 120
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	5.00	4.81		mg/L		96	80 - 120
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Cobalt	0.0500	0.0484		mg/L		97	80 - 120
Chromium	0.0500	0.0470		mg/L		94	80 - 120
Lead	0.0500	0.0477		mg/L		95	80 - 120
Antimony	0.0500	0.0432		mg/L		86	80 - 120
Selenium	0.0500	0.0486		mg/L		97	80 - 120
Thallium	0.0100	0.00975		mg/L		97	80 - 120
Copper	0.0500	0.0489		mg/L		98	80 - 120
Nickel	0.0500	0.0489		mg/L		98	80 - 120
Vanadium	0.0500	0.0481		mg/L		96	80 - 120
Silver	0.0500	0.0459		mg/L		92	80 - 120
Zinc	0.0500	0.0497		mg/L		99	80 - 120

**Lab Sample ID: MB 400-435839/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:14	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:14	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:14	5

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435839/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:14	5

**Lab Sample ID: LCS 400-435839/2-A**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0508		mg/L		102	80 - 120
Barium	0.0500	0.0484		mg/L		97	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Calcium	5.00	4.79		mg/L		96	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Cobalt	0.0500	0.0492		mg/L		98	80 - 120
Chromium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.0500	0.0521		mg/L		104	80 - 120
Antimony	0.0500	0.0490		mg/L		98	80 - 120
Selenium	0.0500	0.0470		mg/L		94	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120
Copper	0.0500	0.0503		mg/L		101	80 - 120
Nickel	0.0500	0.0494		mg/L		99	80 - 120
Vanadium	0.0500	0.0484		mg/L		97	80 - 120
Silver	0.0500	0.0612	*	mg/L		122	80 - 120
Zinc	0.0500	0.0487		mg/L		97	80 - 120

**Lab Sample ID: 180-88290-1 MS**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: GWC-5**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00046		0.0500	0.0515		mg/L		103	75 - 125
Barium	0.038		0.0500	0.0867		mg/L		98	75 - 125
Boron	0.33	F1	0.100	0.465	F1	mg/L		134	75 - 125
Beryllium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125
Calcium	75		5.00	81.3	4	mg/L		116	75 - 125
Cadmium	<0.00034		0.0500	0.0498		mg/L		100	75 - 125
Cobalt	<0.00040		0.0500	0.0489		mg/L		98	75 - 125
Chromium	0.0039		0.0500	0.0525		mg/L		97	75 - 125
Lead	<0.00035		0.0500	0.0528		mg/L		106	75 - 125
Antimony	<0.0010		0.0500	0.0510		mg/L		102	75 - 125
Selenium	0.023		0.0500	0.0673		mg/L		88	75 - 125
Thallium	<0.000085		0.0100	0.0100		mg/L		100	75 - 125
Copper	<0.0021		0.0500	0.0500		mg/L		100	75 - 125
Nickel	<0.0018		0.0500	0.0509		mg/L		102	75 - 125
Vanadium	0.0020	J	0.0500	0.0504		mg/L		97	75 - 125
Silver	<0.00011	*	0.0500	0.0559		mg/L		112	75 - 125
Zinc	<0.0065		0.0500	0.0540		mg/L		108	75 - 125

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-88290-1 MSD  
Matrix: Water  
Analysis Batch: 436341

Client Sample ID: GWC-5  
Prep Type: Total Recoverable  
Prep Batch: 435839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00046		0.0500	0.0561		mg/L		112	75 - 125	9	20
Barium	0.038		0.0500	0.0992		mg/L		123	75 - 125	14	20
Boron	0.33	F1	0.100	0.456		mg/L		125	75 - 125	2	20
Beryllium	<0.00034		0.0500	0.0488		mg/L		98	75 - 125	2	20
Calcium	75		5.00	94.0	4	mg/L		370	75 - 125	14	20
Cadmium	<0.00034		0.0500	0.0578		mg/L		116	75 - 125	15	20
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125	8	20
Chromium	0.0039		0.0500	0.0581		mg/L		108	75 - 125	10	20
Lead	<0.00035		0.0500	0.0523		mg/L		105	75 - 125	1	20
Antimony	<0.0010		0.0500	0.0576		mg/L		115	75 - 125	12	20
Selenium	0.023		0.0500	0.0668		mg/L		87	75 - 125	1	20
Thallium	<0.000085		0.0100	0.0101		mg/L		101	75 - 125	1	20
Copper	<0.0021		0.0500	0.0549		mg/L		110	75 - 125	9	20
Nickel	<0.0018		0.0500	0.0543		mg/L		109	75 - 125	6	20
Vanadium	0.0020	J	0.0500	0.0555		mg/L		107	75 - 125	10	20
Silver	<0.00011	*	0.0500	0.0603		mg/L		121	75 - 125	7	20
Zinc	<0.0065		0.0500	0.0583		mg/L		117	75 - 125	8	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435577/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 13:33	04/03/19 12:27	1

Lab Sample ID: LCS 400-435577/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00105		mg/L		104	80 - 120

Lab Sample ID: MB 400-435593/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:30	1

Lab Sample ID: LCS 400-435593/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00106		mg/L		105	80 - 120

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-88203-1 MS**  
**Matrix: Water**  
**Analysis Batch: 435757**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**  
**Prep Batch: 435593**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00214		mg/L		106	80 - 120

**Lab Sample ID: 180-88203-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 435757**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**  
**Prep Batch: 435593**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00215		mg/L		107	80 - 120	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-274370/2**  
**Matrix: Water**  
**Analysis Batch: 274370**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 13:08	1

**Lab Sample ID: LCS 180-274370/1**  
**Matrix: Water**  
**Analysis Batch: 274370**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	288		mg/L		95	80 - 120

**Lab Sample ID: MB 180-274388/2**  
**Matrix: Water**  
**Analysis Batch: 274388**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Lab Sample ID: LCS 180-274388/1**  
**Matrix: Water**  
**Analysis Batch: 274388**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	252		mg/L		83	80 - 120

**Lab Sample ID: MB 180-274515/2**  
**Matrix: Water**  
**Analysis Batch: 274515**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:05	1

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-274515/1**  
**Matrix: Water**  
**Analysis Batch: 274515**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	318		mg/L		105	80 - 120

**Lab Sample ID: MB 180-274516/2**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

**Lab Sample ID: LCS 180-274516/1**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L		104	80 - 120

**Lab Sample ID: 180-88290-8 DU**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: FD-2 (LF)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		302		mg/L		2	10

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## HPLC/IC

### Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-5	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-88203-7	GWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88203-8	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-88203-9	GWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-88203-10	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-88203-11	GWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-88203-15	EB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-16	EB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-17	FD-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-18	FB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-4	GWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-88290-5	GWC-10	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MS	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MSD	GWA-15	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-2	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-3	GWA-17	Total/NA	Water	EPA 300.0 R2.1	
180-88203-4	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-88203-6	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-88203-12	GWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-88203-13	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-88203-14	GWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-2	GWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-88290-3	GWC-8A	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-7	FB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-8	FD-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MS	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MSD	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MS	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MSD	GWC-11	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 435577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	7470A	
180-88290-2	GWC-7	Total/NA	Water	7470A	
180-88290-3	GWC-8A	Total/NA	Water	7470A	
180-88290-4	GWC-9	Total/NA	Water	7470A	
180-88290-5	GWC-10	Total/NA	Water	7470A	
180-88290-6	GWC-11	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Metals (Continued)

### Prep Batch: 435577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 435593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	
180-88203-2	GWA-16	Total/NA	Water	7470A	
180-88203-3	GWA-17	Total/NA	Water	7470A	
180-88203-4	GWC-1	Total/NA	Water	7470A	
180-88203-5	GWC-2	Total/NA	Water	7470A	
180-88203-6	GWC-3	Total/NA	Water	7470A	
180-88203-7	GWC-4	Total/NA	Water	7470A	
180-88203-8	GWC-6	Total/NA	Water	7470A	
180-88203-9	GWC-12	Total/NA	Water	7470A	
180-88203-10	GWC-13	Total/NA	Water	7470A	
180-88203-11	GWC-14	Total/NA	Water	7470A	
180-88203-12	GWC-18	Total/NA	Water	7470A	
180-88203-13	GWC-19	Total/NA	Water	7470A	
180-88203-14	GWC-20	Total/NA	Water	7470A	
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	

### Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	435593
180-88203-2	GWA-16	Total/NA	Water	7470A	435593
180-88203-3	GWA-17	Total/NA	Water	7470A	435593
180-88203-4	GWC-1	Total/NA	Water	7470A	435593
180-88203-5	GWC-2	Total/NA	Water	7470A	435593
180-88203-6	GWC-3	Total/NA	Water	7470A	435593
180-88203-7	GWC-4	Total/NA	Water	7470A	435593
180-88203-8	GWC-6	Total/NA	Water	7470A	435593
180-88203-9	GWC-12	Total/NA	Water	7470A	435593
180-88203-10	GWC-13	Total/NA	Water	7470A	435593
180-88203-11	GWC-14	Total/NA	Water	7470A	435593
180-88203-12	GWC-18	Total/NA	Water	7470A	435593
180-88203-13	GWC-19	Total/NA	Water	7470A	435593
180-88203-14	GWC-20	Total/NA	Water	7470A	435593
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	435593
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	435593
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	435593
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	435593
180-88290-1	GWC-5	Total/NA	Water	7470A	435577

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Metals (Continued)

### Analysis Batch: 435757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-2	GWC-7	Total/NA	Water	7470A	435577
180-88290-3	GWC-8A	Total/NA	Water	7470A	435577
180-88290-4	GWC-9	Total/NA	Water	7470A	435577
180-88290-5	GWC-10	Total/NA	Water	7470A	435577
180-88290-6	GWC-11	Total/NA	Water	7470A	435577
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	435577
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	435577
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	435577
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	435593
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	435577
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	435593
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	435593
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	435593

### Prep Batch: 435790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	3005A	
180-88203-2	GWA-16	Total Recoverable	Water	3005A	
180-88203-3	GWA-17	Total Recoverable	Water	3005A	
180-88203-4	GWC-1	Total Recoverable	Water	3005A	
180-88203-5	GWC-2	Total Recoverable	Water	3005A	
180-88203-6	GWC-3	Total Recoverable	Water	3005A	
180-88203-7	GWC-4	Total Recoverable	Water	3005A	
180-88203-8	GWC-6	Total Recoverable	Water	3005A	
180-88203-9	GWC-12	Total Recoverable	Water	3005A	
180-88203-10	GWC-13	Total Recoverable	Water	3005A	
180-88203-11	GWC-14	Total Recoverable	Water	3005A	
180-88203-12	GWC-18	Total Recoverable	Water	3005A	
180-88203-13	GWC-19	Total Recoverable	Water	3005A	
180-88203-14	GWC-20	Total Recoverable	Water	3005A	
180-88203-15	EB-1 (LF)	Total Recoverable	Water	3005A	
180-88203-16	EB-2 (LF)	Total Recoverable	Water	3005A	
180-88203-17	FD-1 (LF)	Total Recoverable	Water	3005A	
180-88203-18	FB-1 (LF)	Total Recoverable	Water	3005A	
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 435839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	3005A	
180-88290-2	GWC-7	Total Recoverable	Water	3005A	
180-88290-3	GWC-8A	Total Recoverable	Water	3005A	
180-88290-4	GWC-9	Total Recoverable	Water	3005A	
180-88290-5	GWC-10	Total Recoverable	Water	3005A	
180-88290-6	GWC-11	Total Recoverable	Water	3005A	
180-88290-7	FB-2 (LF)	Total Recoverable	Water	3005A	
180-88290-8	FD-2 (LF)	Total Recoverable	Water	3005A	
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-88290-1 MS	GWC-5	Total Recoverable	Water	3005A	
180-88290-1 MSD	GWC-5	Total Recoverable	Water	3005A	

Eurofins TestAmerica, Pittsburgh



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Metals

### Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	6020	435790
180-88203-2	GWA-16	Total Recoverable	Water	6020	435790
180-88203-3	GWA-17	Total Recoverable	Water	6020	435790
180-88203-4	GWC-1	Total Recoverable	Water	6020	435790
180-88203-5	GWC-2	Total Recoverable	Water	6020	435790
180-88203-6	GWC-3	Total Recoverable	Water	6020	435790
180-88203-7	GWC-4	Total Recoverable	Water	6020	435790
180-88203-8	GWC-6	Total Recoverable	Water	6020	435790
180-88203-9	GWC-12	Total Recoverable	Water	6020	435790
180-88203-10	GWC-13	Total Recoverable	Water	6020	435790
180-88203-11	GWC-14	Total Recoverable	Water	6020	435790
180-88203-12	GWC-18	Total Recoverable	Water	6020	435790
180-88203-13	GWC-19	Total Recoverable	Water	6020	435790
180-88203-14	GWC-20	Total Recoverable	Water	6020	435790
180-88203-15	EB-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-16	EB-2 (LF)	Total Recoverable	Water	6020	435790
180-88203-17	FD-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-18	FB-1 (LF)	Total Recoverable	Water	6020	435790
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	6020	435790
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	6020	435790

### Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	6020	435839
180-88290-2	GWC-7	Total Recoverable	Water	6020	435839
180-88290-3	GWC-8A	Total Recoverable	Water	6020	435839
180-88290-4	GWC-9	Total Recoverable	Water	6020	435839
180-88290-5	GWC-10	Total Recoverable	Water	6020	435839
180-88290-6	GWC-11	Total Recoverable	Water	6020	435839
180-88290-7	FB-2 (LF)	Total Recoverable	Water	6020	435839
180-88290-8	FD-2 (LF)	Total Recoverable	Water	6020	435839
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	6020	435839
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	6020	435839
180-88290-1 MS	GWC-5	Total Recoverable	Water	6020	435839
180-88290-1 MSD	GWC-5	Total Recoverable	Water	6020	435839

## General Chemistry

### Analysis Batch: 274370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	SM 2540C	
180-88203-2	GWA-16	Total/NA	Water	SM 2540C	
180-88203-3	GWA-17	Total/NA	Water	SM 2540C	
180-88203-4	GWC-1	Total/NA	Water	SM 2540C	
180-88203-5	GWC-2	Total/NA	Water	SM 2540C	
180-88203-6	GWC-3	Total/NA	Water	SM 2540C	
180-88203-7	GWC-4	Total/NA	Water	SM 2540C	
180-88203-8	GWC-6	Total/NA	Water	SM 2540C	
180-88203-9	GWC-12	Total/NA	Water	SM 2540C	
180-88203-10	GWC-13	Total/NA	Water	SM 2540C	
180-88203-11	GWC-14	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## General Chemistry (Continued)

### Analysis Batch: 274370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-12	GWC-18	Total/NA	Water	SM 2540C	
MB 180-274370/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274370/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-13	GWC-19	Total/NA	Water	SM 2540C	
180-88203-14	GWC-20	Total/NA	Water	SM 2540C	
180-88203-15	EB-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-16	EB-2 (LF)	Total/NA	Water	SM 2540C	
180-88203-17	FD-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-18	FB-1 (LF)	Total/NA	Water	SM 2540C	
MB 180-274388/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274388/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	SM 2540C	
180-88290-2	GWC-7	Total/NA	Water	SM 2540C	
MB 180-274515/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274515/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-3	GWC-8A	Total/NA	Water	SM 2540C	
180-88290-4	GWC-9	Total/NA	Water	SM 2540C	
180-88290-5	GWC-10	Total/NA	Water	SM 2540C	
180-88290-6	GWC-11	Total/NA	Water	SM 2540C	
180-88290-7	FB-2 (LF)	Total/NA	Water	SM 2540C	
180-88290-8	FD-2 (LF)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-88290-8 DU	FD-2 (LF)	Total/NA	Water	SM 2540C	

**TestAmerica Pittsburgh**

301 Alpha Drive  
 RIDC Park  
 Pittsburgh, PA 15238-2907  
 phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>	<b>Project Manager: Dawn Prell</b>	<b>Site Contact: Karim Minkara</b>	<b>Date: 3/27/19</b>	<b>COC No:</b>
Joju Abraham	<b>Tel/Fax: 248-536-5445</b>	<b>Lab Contact: Veronica Bortot</b>	<b>Carrier:</b>	1 of 2 COCs
Southern Company	<b>Analysis Turnaround Time</b>			<b>Sampler:</b>
241 Ralph McGill Blvd SE B10185	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS	Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zn: 50 Cl, F, SO4, TDS		<b>For Lab Use Only:</b>
Atlanta, GA 30308	TAT if different from Below ___ 3-5 days ___			Walk-in Client:
JAbraham@southernco.com	<input type="checkbox"/> 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Cell 1	<input type="checkbox"/> 1 week			Job / SDG No.:
Site: Georgia	<input type="checkbox"/> 2 days			
P O # 18019884	<input type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zn: 50	Cl, F, SO4, TDS
GWA-15	3/26/2019	1045	G	Water	2		X	X	
GWA-16	3/26/2019	1120	G	Water	2		X	X	
GWA-17	3/26/2019	1025	G	Water	2		X	X	
GWC-1	3/26/2019	1210	G	Water	2		X	X	
GWC-2	3/26/2019	1305	G	Water	2		X	X	
GWC-3	3/26/2019	1640	G	Water	2		X	X	
GWC-4	3/26/2019	1430	G	Water	2		X	X	
GWC-6	3/26/2019	1505	G	Water	2		X	X	
GWC-12	3/26/2019	1550	G	Water	2		X	X	
GWC-13	3/26/2019	1500	G	Water	2		X	X	
GWC-14	3/26/2019	1355	G	Water	2		X	X	
GWC-18	3/26/2019	1150	G	Water	2		X	X	

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**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Kary Miller</i>	Company: <i>Golden</i>	Date/Time: <i>3-27-19 10:00</i>	Received by: <i>Elaine Cook</i>	Company: <i>Courier Now</i>
Relinquished by: <i>Richie</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 10:00</i>	Received by: <i>Elaine Cook</i>	Company: <i>Golden</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 16:10</i>	Received in Laboratory by: <i>Dedrick Watson</i>	Company: <i>TAPIH</i>

4/5/2019

895





Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com		<b>Project Manager: Dawn Prell</b> Tel/Fax: 248-536-5445		<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot		<b>Date: 3/27/19</b> Carrier:		COC No: 2 of 2 COCs		
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below ___ 3-5 days ___ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Filtered Sample (Y/N) Perform MS / MSD, P / N 6020, 7470A, As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zr, Sb Cl, F, SO4, TDS				Sampler: <b>For Lab Use Only:</b> Walk-in Client: Lab Sampling:		
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>			<b>Sample Type (C=Comp, G=Grab)</b>	<b>Matrix</b>	<b># of Cont.</b>	Job / SDG No.:	
GWC-19		3/26/2019	1000	G	Water	2	X	X	Sample Specific Notes:	
GWC-20		3/26/2019	1530	G	Water	2	X	X		
EB-1 (LF)		3/26/2019	1545	G	Water	2	X	X		
EB-2 (LF)		3/26/2019	1645	G	Water	2	X	X		
FD-1 (LF)		3/26/2019	--	G	Water	2	X	X		
FB-1 (LF)		3/26/2019	1115	G	Water	2	X	X		
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						4	1			
<b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
<b>Special Instructions/QC Requirements &amp; Comments:</b>										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.:				
Relinquished by: [Signature]		Company: Golden		Date/Time: 3/27/19 8:00		Received by: [Signature]		Company: Courier Now		
Relinquished by: [Signature]		Company: TA		Date/Time: 3/27/19 10:00		Received by: [Signature]		Company: TA		
Relinquished by: [Signature]		Company: TA		Date/Time: 3/27/19 16:10		Received in Laboratory by: [Signature]		Company: TA		

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4/15/2019



8:45

**TestAmerica Pittsburgh**

301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238-2907  
phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com Project Name: CCR - Plant Scherer Cell 1 Site: Georgia P O # 18019884	<b>Project Manager: Dawn Prell</b> Tel/Fax: 248-536-5445	<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot	Date: 3/28/19 Carrier:	COC No: 1 of 2 COCs Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:
<b>Analysis Turnaround Time</b> <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below ___ 3-5 days ___ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) <input type="checkbox"/> Perform MS / MSD (Y/N) <input type="checkbox"/> 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn Cl, F, SO4, TDS		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWC-5	3/27/2019	949	G	Water	2		X	X	
GWC-7	3/27/2019	1105	G	Water	2		X	X	
GWC-8A	3/27/2019	1020	G	Water	2		X	X	
GWC-9	3/27/2019	1229	G	Water	2		X	X	
GWC-10	3/27/2019	1142	G	Water	2		X	X	
GWC-11	3/27/2019	1050	G	Water	2		X	X	
FB-2 (LF)	3/27/2019	1055	G	Water	2		X	X	
FD-2 (LF)	3/27/2019	-	G	Water	2		X	X	



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.:
Relinquished by: <i>Chris Tizwell</i>	Company: <i>Colde</i>	Date/Time: <i>7-7-11 7:58</i>	Received by: <i>Elaine Cook</i>
Relinquished by: <i>Elaine Cook</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 10:20</i>	Received by: <i>TA</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 16:10</i>	Received in Laboratory by: <i>[Signature]</i>
			Company: <i>Courier Now</i>
			Date/Time: <i>3/28/19 8:00</i>
			Date/Time: <i>10/10</i>
			Date/Time: <i>3-29-19 8:50</i>

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4/15/2019





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 2/16/19  
ACTING: SU  
CAD: 859116 P-FF 12

ORIGIN ID: MULA (678) 966-9981  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

BILL RECIPIENT

10 **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: SOUTHERN CO.



2 of 2  
MPS# 4651 0080 9905  
Mstr# 4651 0080 9890  
THU - 28 MAR 3:00P  
STANDARD OVERNIGHT  
15238  
PA-US PIT

2.1 K=10 #10



# TestAmerica

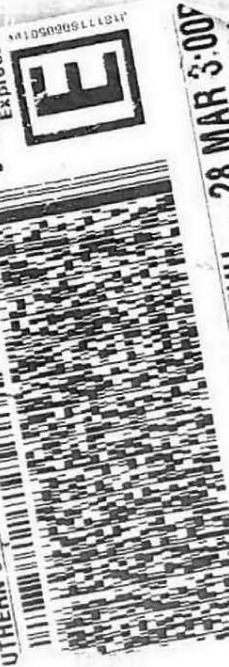
THE LEADER IN ENVIRONMENTAL TESTING



180-88203 Waybill

ORIGIN ID: MULA  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

**SAMPLE RECEIVING**  
**PITTSBURGH**  
**1 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: SOUTHERN CO.



1 of 2  
MPS# 4651 0080 9890  
Mstr# 4651 0080 9890  
THU - 28 MAR 3:00P  
STANDARD OVERNIGHT  
15238  
PA-US PIT

37 °C  
10  
Unrecorded temp  
Thermometer ID  
Initials  
CF



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- 13



edEx Express Package US Airbill

FedEx Tracking Number 8116 7091 8535

Form No. 0200

4 Express Package Servi

Next Business Day

- FedEx First Overnight
- FedEx Priority Overnight
- FedEx Standard Overnight

5 Packaging

- FedEx Envelope\*

6 Special Handling and Deli

- Saturday Delivery
- No Signature Required

7 Payment Bill to:

- Sender
- Recipient

Sample Central  
 TA Pittsburgh  
 301 Alpha Dr.  
 RIDC Park  
 Pittsburgh PA

FRI - 29 MAR AA  
 STANDARD OVERNIGHT  
 7091 8535

GCA

15238 PA-US PIT

corrected temp  
 thermometer ID 7.9 °C  
 Initials TD

WI-SR-001 effective 11/8/18

ENVIRONMENTAL TESTING  
 592545  
 RT-97  
 1 15:00 A  
 8535 03:29

Packages up to 150 lbs.  
 FedEx Express Freight U.S.  
 Business Days  
 FedEx 2Day A.M.  
 Second business morning.  
 Saturday Delivery NOT available.

FedEx 2Day  
 Second business afternoon.  
 FedEx Express Saver  
 Third business day.  
 Saturday Delivery NOT available.

Signature Options  
 Direct Signature  
 Indirect Signature

Dry Ice  
 Cargo Aircraft Only

Third Party  
 Credit Card  
 Cash/Check  
 Credit Card Inst.

180-88290 06298-081

644



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**FedEx** Package  
Express US Airbill  
Tracking Number **8116 7091 8524**

1 From  
Date

Sender's Name  
Phone

Company

Address

City State ZIP

2 Your Internal Billing Reference

3 To  
Recipient's Name  
Company  
Address  
City State ZIP

Address  
City State ZIP

Address  
City State ZIP

City State ZIP

From ID No **0200**  
4 Express Package Service

Next Business Day  
 FedEx First Overnight  
 FedEx Priority Overnight  
 FedEx Standard Overnight

5 Packaging  
 FedEx P

6 Special Handling and Delivery Signat  
 Saturday Delivery  
 Signature Required  
 Signature Required - Direct

Does this shipment contain dangerous goods?  
 No  
 Yes  
 Yes - Permitted  
 Yes - Restricted

7 Payment Bill to:  
 Sender  
 Recipient  
 Third Party

**FedEx**  
TRK# **8116 7091 8524**  
FRI - 29 MAR AA  
STANDARD OVERNIGHT

**NA AGCA**  
15238  
PA-US  
PIT

Uncorrected temp  
Thermometer ID  
4.0 °C  
10

CF 0 Initials JS



PT-VI-SR-001 effective 11/8/18  
FID 429154 28MAR19 MCEA 553CI/4503/0C8A

Your liability is limited to US\$100 unless you declare a higher value. See the cover  
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**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving				Phone:	Bortot, Veronica		180-358762.1
Company: TestAmerica Laboratories, Inc.					E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 2
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/3/2019	<b>Analysis Requested</b>		Job #: 180-88203-1
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer				TAT Requested (days):	Field Filtered Sample (Yes or No)		<b>Preservation Codes:</b>
PO #:				WO #:	Perform MS/MSD (Yes or No)		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Project #: 18019884				SSOW#:	7470A/7470A_Prep		<b>Other:</b>
6020/3005A (MOD) Appendix III & IV				Total Number of containers			
<b>Sample Identification - Client ID (Lab ID)</b>				<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>
Preservation Code:							
GWA-15 (180-88203-1)				3/26/19	10:45 Eastern		Water
GWA-16 (180-88203-2)				3/26/19	11:20 Eastern		Water
GWA-17 (180-88203-3)				3/26/19	10:25 Eastern		Water
GWC-1 (180-88203-4)				3/26/19	12:10 Eastern		Water
GWC-2 (180-88203-5)				3/26/19	13:05 Eastern		Water
GWC-3 (180-88203-6)				3/26/19	16:40 Eastern		Water
GWC-4 (180-88203-7)				3/26/19	14:30 Eastern		Water
GWC-6 (180-88203-8)				3/26/19	15:05 Eastern		Water
GWC-12 (180-88203-9)				3/26/19	15:50 Eastern		Water
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>							
<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:	Time:	Method of Shipment:	
Relinquished by: <i>[Signature]</i>				Date/Time: 4/1/19 1700	Company: TAPEN	Received by: <i>[Signature]</i>	
Relinquished by:				Date/Time:	Company:	Date/Time: 4.2.19 0859	
Relinquished by:				Date/Time:	Company:	Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°, 13.5°, 13.2°   R7	

Page 56 of 61

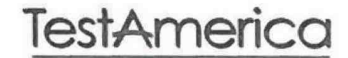
4/15/2019



**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
 Pittsburgh, PA 15238  
 Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>			Sampler:		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-358762.2			
Client Contact: Shipping/Receiving			Phone:		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 2 of 2			
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note):					Job #: 180-88203-1		
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:			Due Date Requested: 4/3/2019 TAT Requested (days):		<b>Analysis Requested</b>					Preservation Codes:		
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer			Project #: 18019884 SSOW#:							A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)
<b>Sample Identification - Client ID (Lab ID)</b>			<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A_Prep	6020/3005A (MOD) Appendix III & IV	Total Number of containers	<b>Special Instructions/Note:</b>
GWC-13 (180-88203-10)			3/26/19	15:00 Eastern		Water			X	X	1	
GWC-14 (180-88203-11)			3/26/19	13:55 Eastern		Water			X	X	1	
GWC-18 (180-88203-12)			3/26/19	11:50 Eastern		Water			X	X	1	
GWC-19 (180-88203-13)			3/26/19	10:00 Eastern		Water			X	X	1	
GWC-20 (180-88203-14)			3/26/19	15:30 Eastern		Water			X	X	1	
EB-1 (LF) (180-88203-15)			3/26/19	15:45 Eastern		Water			X	X	1	
EB-2 (LF) (180-88203-16)			3/26/19	16:45 Eastern		Water			X	X	1	
FD-1 (LF) (180-88203-17)			3/26/19	Eastern		Water			X	X	1	
FB-1 (LF) (180-88203-18)			3/26/19	11:15 Eastern		Water			X	X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 4/1/19 17:00		Company: TA PTH		Received by:	
Relinquished by:		Date/Time:		Company:		Date/Time: 4-2-19 0859	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c 127			

Ver: 01/16/2019



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88203**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88203**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 01:03 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88290**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88290**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 01:13 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**

# PAC ASH CELL

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88291-1  
Laboratory Sample Delivery Group: PAC Ash  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/15/2019 10:15:26 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Job ID: 180-88291-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-88291-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/29/2019 8:50 AM and 3/30/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.1° C, 3.5° C, 3.9° C, 4.0° C and 4.8° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-48 (180-88291-4). The container labels list a sample collection time of 13:50, while the COC lists 13:55. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-46 (180-88291-7). The container labels lists a sample collection time of 15:00, while the COC lists 14:55. The time on the COC was used.

#### Anions

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6020: The post digestion spike % recovery associated with batch 400-435940 was outside of control limits. The following sample is impacted: (180-88200-C-1-B PDS ^5).

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435792 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
 SDG: PAC Ash

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88291-1	GWA-45	Water	03/27/19 11:30	03/29/19 08:50
180-88291-2	GWA-49	Water	03/27/19 12:35	03/29/19 08:50
180-88291-3	GWA-21	Water	03/27/19 13:33	03/29/19 08:50
180-88291-4	GWA-48	Water	03/27/19 13:55	03/29/19 08:50
180-88291-5	GWA-47	Water	03/27/19 14:05	03/29/19 08:50
180-88291-6	GWA-22	Water	03/27/19 14:29	03/29/19 08:50
180-88291-7	GWA-46	Water	03/27/19 14:55	03/29/19 08:50
180-88291-8	GWC-51	Water	03/27/19 15:29	03/29/19 08:50
180-88291-9	FB-1 (PA)	Water	03/27/19 13:30	03/29/19 08:50
180-88291-10	FD-1 (PA)	Water	03/27/19 00:00	03/29/19 08:50
180-88291-11	EB-1 (PA)	Water	03/27/19 15:15	03/29/19 08:50
180-88348-1	GWC-50	Water	03/28/19 09:40	03/30/19 10:00
180-88348-2	GWC-53	Water	03/28/19 09:48	03/30/19 10:00
180-88348-3	GWC-29	Water	03/28/19 10:30	03/30/19 10:00
180-88348-4	GWC-52	Water	03/28/19 10:43	03/30/19 10:00
180-88348-5	FB-2 (PA)	Water	03/28/19 09:45	03/30/19 10:00
180-88348-6	FD-2 (PA)	Water	03/28/19 00:00	03/30/19 10:00
180-88348-7	EB-2 (PA)	Water	03/28/19 11:00	03/30/19 10:00

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-88291-1**

**Date Collected: 03/27/19 11:30**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 12:34	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:51	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-88291-2**

**Date Collected: 03/27/19 12:35**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:37	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-21**

**Lab Sample ID: 180-88291-3**

**Date Collected: 03/27/19 13:33**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:53	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:58	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-88291-4**

**Date Collected: 03/27/19 13:55**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:09	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-47**

**Lab Sample ID: 180-88291-5**

**Date Collected: 03/27/19 14:05**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-22**

**Lab Sample ID: 180-88291-6**

**Date Collected: 03/27/19 14:29**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-46**

**Lab Sample ID: 180-88291-7**

**Date Collected: 03/27/19 14:55**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:56	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-51**

**Lab Sample ID: 180-88291-8**

**Date Collected: 03/27/19 15:29**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:46	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: FB-1 (PA)**

**Lab Sample ID: 180-88291-9**

**Date Collected: 03/27/19 13:30**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:14	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Client Sample ID: FD-1 (PA)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 16:31	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

## Client Sample ID: EB-1 (PA)

Date Collected: 03/27/19 15:15

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:31	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

## Client Sample ID: GWC-50

Date Collected: 03/28/19 09:40

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:28	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:42	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-53**  
**Date Collected: 03/28/19 09:48**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 06:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:46	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

**Client Sample ID: GWC-29**  
**Date Collected: 03/28/19 10:30**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:44	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:50	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

**Client Sample ID: GWC-52**  
**Date Collected: 03/28/19 10:43**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:51	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Client Sample ID: FB-2 (PA)

Date Collected: 03/28/19 09:45

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

## Client Sample ID: FD-2 (PA)

Date Collected: 03/28/19 00:00

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 10:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

## Client Sample ID: EB-2 (PA)

Date Collected: 03/28/19 11:00

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:35	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274732	04/03/19 12:07	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001  
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-88291-1**

Date Collected: 03/27/19 11:30

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.71	mg/L			04/01/19 12:34	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 12:34	1
Sulfate	140		1.0	0.38	mg/L			04/01/19 12:34	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:51	5
Barium	0.057		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:51	5
Boron	0.74		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
Calcium	39		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
Cobalt	0.00083	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:51	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:51	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:51	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:51	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:51	5
Vanadium	0.0023	J B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:51	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:51	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-88291-2**

Date Collected: 03/27/19 12:35

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 13:37	1
Fluoride	0.037	J	0.20	0.026	mg/L			04/01/19 13:37	1
Sulfate	0.56	J	1.0	0.38	mg/L			04/01/19 13:37	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:54	5
Barium	0.019		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:54	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
Calcium	15		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:54	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-49**  
Date Collected: 03/27/19 12:35  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0056</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:54	5
<b>Vanadium</b>	<b>0.021</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:54	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:54	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-21**  
Date Collected: 03/27/19 13:33  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.9</b>		1.0	0.71	mg/L			04/01/19 13:53	1
<b>Fluoride</b>	<b>0.035</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:53	1
<b>Sulfate</b>	<b>0.81</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 13:53	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:58	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Calcium</b>	<b>9.5</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Chromium</b>	<b>0.0030</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:58	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:58	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:58	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Vanadium</b>	<b>0.0072</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:58	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:58	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-21**  
Date Collected: 03/27/19 13:33  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-3**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-48**  
Date Collected: 03/27/19 13:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 14:09	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 14:09	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 14:09	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:02	5
Barium	0.013		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Calcium	13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:02	5
Chromium	0.0051		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:02	5
Vanadium	0.022	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:02	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-47**  
Date Collected: 03/27/19 14:05  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			04/01/19 14:24	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-47**  
Date Collected: 03/27/19 14:05  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Fluoride</b>	<b>0.041</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 14:24	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:06	5
<b>Barium</b>	<b>0.026</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
<b>Calcium</b>	<b>11</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:06	5
<b>Chromium</b>	<b>0.0081</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:06	5
<b>Vanadium</b>	<b>0.012</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:06	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>94</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-22**  
Date Collected: 03/27/19 14:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.0</b>		1.0	0.71	mg/L			04/01/19 14:40	1
<b>Fluoride</b>	<b>0.036</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 14:40	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:10	5
<b>Barium</b>	<b>0.022</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
<b>Calcium</b>	<b>7.1</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:10	5
<b>Chromium</b>	<b>0.0078</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:10	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-22**  
Date Collected: 03/27/19 14:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:10	5
<b>Vanadium</b>	<b>0.0071</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:10	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>76</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-46**  
Date Collected: 03/27/19 14:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.7</b>		1.0	0.71	mg/L			04/01/19 14:56	1
<b>Fluoride</b>	<b>0.033</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 14:56	1
<b>Sulfate</b>	<b>0.52</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 14:56	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Barium</b>	<b>0.021</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Calcium</b>	<b>6.1</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Chromium</b>	<b>0.0048</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Vanadium</b>	<b>0.0072</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:09	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-46**  
Date Collected: 03/27/19 14:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-51**  
Date Collected: 03/27/19 15:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.71	mg/L			04/01/19 15:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:46	1
Sulfate	2.7		1.0	0.38	mg/L			04/01/19 15:46	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:18	5
Barium	0.011		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Calcium	7.0		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:18	5
Nickel	0.0024	J	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:18	5
Vanadium	0.0087	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:18	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:10	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FB-1 (PA)**  
Date Collected: 03/27/19 13:30  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 15:14	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:14	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 15:14	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FB-1 (PA)**

**Lab Sample ID: 180-88291-9**

Date Collected: 03/27/19 13:30

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:22	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:22	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:22	5
<b>Vanadium</b>	<b>0.0036</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:22	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FD-1 (PA)**

**Lab Sample ID: 180-88291-10**

Date Collected: 03/27/19 00:00

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.9</b>		1.0	0.71	mg/L			04/01/19 16:31	1
<b>Fluoride</b>	<b>0.050</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 16:31	1
<b>Sulfate</b>	<b>1.1</b>		1.0	0.38	mg/L			04/01/19 16:31	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:26	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Calcium</b>	<b>9.6</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Chromium</b>	<b>0.0028</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:26	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FD-1 (PA)**

**Lab Sample ID: 180-88291-10**

Date Collected: 03/27/19 00:00

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0066	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: EB-1 (PA)**

**Lab Sample ID: 180-88291-11**

Date Collected: 03/27/19 15:15

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 15:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 15:30	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:31	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:31	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:31	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:31	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:31	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:31	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:31	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:31	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:31	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:31	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:31	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:31	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-50**  
Date Collected: 03/28/19 09:40  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/02/19 07:28	1
Fluoride	0.042	J	0.20	0.026	mg/L			04/02/19 07:28	1
Sulfate	0.38	J	1.0	0.38	mg/L			04/02/19 07:28	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:42	5
Barium	0.012		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:42	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Calcium	7.2		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:42	5
Chromium	0.0043		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:42	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:42	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:42	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:42	5
Vanadium	0.0053		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:42	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:42	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-53**  
Date Collected: 03/28/19 09:48  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/02/19 06:40	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 06:40	1
Sulfate	170		1.0	0.38	mg/L			04/02/19 06:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:46	5
Barium	0.045		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:46	5
Boron	0.97		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Calcium	18		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cobalt	0.011		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:46	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-53**  
Date Collected: 03/28/19 09:48  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Nickel</b>	<b>0.0069</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Vanadium</b>	<b>0.0041</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:46	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Zinc</b>	<b>0.013</b>	<b>J</b>	0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:46	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>280</b>		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-29**  
Date Collected: 03/28/19 10:30  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.8</b>		1.0	0.71	mg/L			04/02/19 07:44	1
<b>Fluoride</b>	<b>0.033</b>	<b>J</b>	0.20	0.026	mg/L			04/02/19 07:44	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			04/02/19 07:44	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Barium</b>	<b>0.017</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:50	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Calcium</b>	<b>11</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Nickel</b>	<b>0.0038</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Vanadium</b>	<b>0.0079</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:50	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:50	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-88348-3**

Date Collected: 03/28/19 10:30

Matrix: Water

Date Received: 03/30/19 10:00

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-88348-4**

Date Collected: 03/28/19 10:43

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.71	mg/L			04/02/19 09:51	1
Fluoride	0.039	J	0.20	0.026	mg/L			04/02/19 09:51	1
Sulfate	29		1.0	0.38	mg/L			04/02/19 09:51	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:14	5
Barium	0.014		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Calcium	15		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:14	5
Chromium	0.019		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:14	5
Vanadium	0.010		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: FB-2 (PA)**

**Lab Sample ID: 180-88348-5**

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/02/19 09:19	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FB-2 (PA)**

**Lab Sample ID: 180-88348-5**

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:19	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:19	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:18	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:18	5
<b>Vanadium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:18	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: FD-2 (PA)**

**Lab Sample ID: 180-88348-6**

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11</b>		1.0	0.71	mg/L			04/02/19 10:07	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 10:07	1
<b>Sulfate</b>	<b>160</b>		1.0	0.38	mg/L			04/02/19 10:07	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Barium</b>	<b>0.050</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Boron</b>	<b>0.99</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Calcium</b>	<b>20</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Cobalt</b>	<b>0.012</b>		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:22	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FD-2 (PA)**

**Lab Sample ID: 180-88348-6**

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:22	5
Nickel	<b>0.0074</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:22	5
Vanadium	<b>0.0029</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Zinc	<b>0.014 J</b>		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:22	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<b>280</b>		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: EB-2 (PA)**

**Lab Sample ID: 180-88348-7**

Date Collected: 03/28/19 11:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 09:35	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:35	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:26	5
Vanadium	<b>0.0034</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:16	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: EB-2 (PA)**

**Lab Sample ID: 180-88348-7**

**Date Collected: 03/28/19 11:00**

**Matrix: Water**

**Date Received: 03/30/19 10:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

1

2

3

4

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13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-274458/41**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 14:59	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:59	1

**Lab Sample ID: LCS 180-274458/38**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

**Lab Sample ID: 180-88291-8 MS**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWC-51**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.0		25.0	31.2		mg/L		97	80 - 120
Fluoride	<0.026		1.25	1.21		mg/L		97	80 - 120
Sulfate	2.7		25.0	24.3		mg/L		86	80 - 120

**Lab Sample ID: 180-88291-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWC-51**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.0		25.0	31.0		mg/L		96	80 - 120	0	20
Fluoride	<0.026		1.25	1.18		mg/L		94	80 - 120	3	20
Sulfate	2.7		25.0	24.2		mg/L		86	80 - 120	0	20

**Lab Sample ID: MB 180-274459/6**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

**Lab Sample ID: LCS 180-274459/5**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-274532/6**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 05:41	1

**Lab Sample ID: LCS 180-274532/5**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	25.2		mg/L		101	90 - 110

**Lab Sample ID: 180-88348-2 MS**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		25.0	38.1		mg/L		106	80 - 120
Fluoride	<0.026		1.25	1.30		mg/L		104	80 - 120
Sulfate	170		25.0	193	4	mg/L		94	80 - 120

**Lab Sample ID: 180-88348-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		25.0	35.5		mg/L		96	80 - 120	7	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	7	20
Sulfate	170		25.0	178	4	mg/L		35	80 - 120	8	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:19	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:19	5

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:19	5
Vanadium	0.00311		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:19	5

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 17:15	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 17:15	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 17:15	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 17:15	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 17:15	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 17:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 17:15	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 17:15	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 17:15	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 17:15	5

**Lab Sample ID: LCS 400-435792/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0521		mg/L		104	80 - 120
Barium	0.0500	0.0508		mg/L		102	80 - 120
Boron	0.100	0.105		mg/L		105	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	5.00	4.89		mg/L		98	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120
Cobalt	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0478		mg/L		96	80 - 120
Antimony	0.0500	0.0445		mg/L		89	80 - 120
Selenium	0.0500	0.0491		mg/L		98	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120
Nickel	0.0500	0.0504		mg/L		101	80 - 120
Vanadium	0.0500	0.0496		mg/L		99	80 - 120
Silver	0.0500	0.0507		mg/L		101	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 400-435792/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0500	0.0510		mg/L		102	80 - 120
Zinc	0.0500	0.0516		mg/L		103	80 - 120

**Lab Sample ID: MB 400-435838/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435838**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 17:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 17:19	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 17:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 17:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 17:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 17:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 17:19	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 17:19	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 17:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 17:19	5

**Lab Sample ID: LCS 400-435838/2-A**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435838**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0506		mg/L		101	80 - 120
Barium	0.0500	0.0482		mg/L		96	80 - 120
Boron	0.100	0.0983		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	5.00	4.77		mg/L		95	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Cobalt	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0532		mg/L		106	80 - 120
Antimony	0.0500	0.0516		mg/L		103	80 - 120
Selenium	0.0500	0.0466		mg/L		93	80 - 120
Thallium	0.0100	0.00992		mg/L		99	80 - 120
Nickel	0.0500	0.0498		mg/L		100	80 - 120
Vanadium	0.0500	0.0491		mg/L		98	80 - 120
Silver	0.0500	0.0544		mg/L		109	80 - 120
Copper	0.0500	0.0497		mg/L		99	80 - 120
Zinc	0.0500	0.0475		mg/L		95	80 - 120

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435616/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:44	1

Lab Sample ID: LCS 400-435616/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 180-88291-1 MS  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: GWA-45  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00218		mg/L		108	80 - 120

Lab Sample ID: 180-88291-1 MSD  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: GWA-45  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00213		mg/L		106	80 - 120	2	20

Lab Sample ID: MB 400-435663/14-A  
Matrix: Water  
Analysis Batch: 436068

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:18	04/05/19 12:58	1

Lab Sample ID: LCS 400-435663/15-A  
Matrix: Water  
Analysis Batch: 436068

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274516/2  
Matrix: Water  
Analysis Batch: 274516

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-274516/1**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L		104	80 - 120

**Lab Sample ID: MB 180-274717/2**  
**Matrix: Water**  
**Analysis Batch: 274717**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

**Lab Sample ID: LCS 180-274717/1**  
**Matrix: Water**  
**Analysis Batch: 274717**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	246		mg/L		81	80 - 120

**Lab Sample ID: MB 180-274732/2**  
**Matrix: Water**  
**Analysis Batch: 274732**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

**Lab Sample ID: LCS 180-274732/1**  
**Matrix: Water**  
**Analysis Batch: 274732**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	278		mg/L		91	80 - 120

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## HPLC/IC

### Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-8	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-9	FB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-10	FD-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-11	EB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/38	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MS	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MSD	GWC-51	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-88291-2	GWA-49	Total/NA	Water	EPA 300.0 R2.1	
180-88291-3	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-88291-4	GWA-48	Total/NA	Water	EPA 300.0 R2.1	
180-88291-5	GWA-47	Total/NA	Water	EPA 300.0 R2.1	
180-88291-6	GWA-22	Total/NA	Water	EPA 300.0 R2.1	
180-88291-7	GWA-46	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-3	GWC-29	Total/NA	Water	EPA 300.0 R2.1	
180-88348-4	GWC-52	Total/NA	Water	EPA 300.0 R2.1	
180-88348-5	FB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-6	FD-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-7	EB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274532/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274532/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MS	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MSD	GWC-53	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 435616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	
180-88291-2	GWA-49	Total/NA	Water	7470A	
180-88291-3	GWA-21	Total/NA	Water	7470A	
180-88291-4	GWA-48	Total/NA	Water	7470A	
180-88291-5	GWA-47	Total/NA	Water	7470A	
180-88291-6	GWA-22	Total/NA	Water	7470A	
180-88291-7	GWA-46	Total/NA	Water	7470A	
180-88291-8	GWC-51	Total/NA	Water	7470A	
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Metals (Continued)

### Prep Batch: 435616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	

### Prep Batch: 435663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	
180-88348-2	GWC-53	Total/NA	Water	7470A	
180-88348-3	GWC-29	Total/NA	Water	7470A	
180-88348-4	GWC-52	Total/NA	Water	7470A	
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	435616
180-88291-2	GWA-49	Total/NA	Water	7470A	435616
180-88291-3	GWA-21	Total/NA	Water	7470A	435616
180-88291-4	GWA-48	Total/NA	Water	7470A	435616
180-88291-5	GWA-47	Total/NA	Water	7470A	435616
180-88291-6	GWA-22	Total/NA	Water	7470A	435616
180-88291-7	GWA-46	Total/NA	Water	7470A	435616
180-88291-8	GWC-51	Total/NA	Water	7470A	435616
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	435616
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	435616
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	435616
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	435616
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	435616
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	435616
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	435616

### Prep Batch: 435792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	3005A	
180-88291-2	GWA-49	Total Recoverable	Water	3005A	
180-88291-3	GWA-21	Total Recoverable	Water	3005A	
180-88291-4	GWA-48	Total Recoverable	Water	3005A	
180-88291-5	GWA-47	Total Recoverable	Water	3005A	
180-88291-6	GWA-22	Total Recoverable	Water	3005A	
180-88291-7	GWA-46	Total Recoverable	Water	3005A	
180-88291-8	GWC-51	Total Recoverable	Water	3005A	
180-88291-9	FB-1 (PA)	Total Recoverable	Water	3005A	
180-88291-10	FD-1 (PA)	Total Recoverable	Water	3005A	
180-88291-11	EB-1 (PA)	Total Recoverable	Water	3005A	
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Metals

### Prep Batch: 435838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	3005A	
180-88348-2	GWC-53	Total Recoverable	Water	3005A	
180-88348-3	GWC-29	Total Recoverable	Water	3005A	
180-88348-4	GWC-52	Total Recoverable	Water	3005A	
180-88348-5	FB-2 (PA)	Total Recoverable	Water	3005A	
180-88348-6	FD-2 (PA)	Total Recoverable	Water	3005A	
180-88348-7	EB-2 (PA)	Total Recoverable	Water	3005A	
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	6020	435792
180-88291-2	GWA-49	Total Recoverable	Water	6020	435792
180-88291-3	GWA-21	Total Recoverable	Water	6020	435792
180-88291-4	GWA-48	Total Recoverable	Water	6020	435792
180-88291-5	GWA-47	Total Recoverable	Water	6020	435792
180-88291-6	GWA-22	Total Recoverable	Water	6020	435792
180-88291-7	GWA-46	Total Recoverable	Water	6020	435792
180-88291-8	GWC-51	Total Recoverable	Water	6020	435792
180-88291-9	FB-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-10	FD-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-11	EB-1 (PA)	Total Recoverable	Water	6020	435792
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	6020	435792

### Analysis Batch: 436068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	435663
180-88348-2	GWC-53	Total/NA	Water	7470A	435663
180-88348-3	GWC-29	Total/NA	Water	7470A	435663
180-88348-4	GWC-52	Total/NA	Water	7470A	435663
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	435663
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	435663
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	435663
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	435663
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	435663

### Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	6020	435838
180-88348-2	GWC-53	Total Recoverable	Water	6020	435838
180-88348-3	GWC-29	Total Recoverable	Water	6020	435838
180-88348-4	GWC-52	Total Recoverable	Water	6020	435838
180-88348-5	FB-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-6	FD-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-7	EB-2 (PA)	Total Recoverable	Water	6020	435838
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	6020	435838
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	6020	435838

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## General Chemistry

### Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	SM 2540C	
180-88291-2	GWA-49	Total/NA	Water	SM 2540C	
180-88291-3	GWA-21	Total/NA	Water	SM 2540C	
180-88291-4	GWA-48	Total/NA	Water	SM 2540C	
180-88291-5	GWA-47	Total/NA	Water	SM 2540C	
180-88291-6	GWA-22	Total/NA	Water	SM 2540C	
180-88291-7	GWA-46	Total/NA	Water	SM 2540C	
180-88291-8	GWC-51	Total/NA	Water	SM 2540C	
180-88291-9	FB-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-10	FD-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-11	EB-1 (PA)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	SM 2540C	
180-88348-2	GWC-53	Total/NA	Water	SM 2540C	
180-88348-3	GWC-29	Total/NA	Water	SM 2540C	
180-88348-4	GWC-52	Total/NA	Water	SM 2540C	
180-88348-5	FB-2 (PA)	Total/NA	Water	SM 2540C	
180-88348-6	FD-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274717/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274717/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-7	EB-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274732/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274732/1	Lab Control Sample	Total/NA	Water	SM 2540C	

**TestAmerica Pittsburgh**

301 Alpha Drive  
 RIDC Park  
 Pittsburgh, PA 15238-2907  
 phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>	<b>Project Manager: Dawn Prell</b>	<b>Site Contact: Karim Minkara</b>	<b>Date: 3/28/19</b>	<b>COC No:</b>	
Joju Abraham	Tel/Fax: 248-536-5445	<b>Lab Contact: Veronica Bortot</b>	<b>Carrier:</b>	2 of 2 COCs	
Southern Company	<b>Analysis Turnaround Time</b>			<b>Sampler:</b>	
241 Ralph McGill Blvd SE B10185	<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS	Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn Cl, F, SO4, TDS		<b>For Lab Use Only:</b>	
Atlanta, GA 30308	TAT if different from Below 3-5 days			<input type="checkbox"/> 2 weeks	Walk-in Client:
JAbraham@southernco.com	<input type="checkbox"/> 1 week			<input type="checkbox"/> 2 days	Lab Sampling:
Project Name: CCR - Plant Scherer PAC Ash Cell	<input type="checkbox"/> 2 days			<input type="checkbox"/> 1 day	Job / SDG No.:
Site: Georgia					
P O # 18019884					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWA-45	3/27/2019	11:30	G	Water	2		X	X	
GWA-49	3/27/2019	12:35	G	Water	2		X	X	
GWA-21	3/27/2019	13:33	G	Water	2		X	X	
GWA-48	3/27/2019	13:55	G	Water	2		X	X	
GWA-47	3/27/2019	14:05	G	Water	2		X	X	
GWA-22	3/27/2019	14:29	G	Water	2		X	X	
GWA-46	3/27/2019	14:55	G	Water	2		X	X	
GWC-51	3/27/2019	15:49	G	Water	2		X	X	
FB-1 (PA)	3/27/2019	13:30	G	Water	2		X	X	
FD-1 (PA)	3/27/2019	--	G	Water	2		X	X	
EB-1 (PA)	3/27/2019	15:15	G	Water	2		X	X	

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <i>Chris Towell</i>	Company: <i>Calder</i>	Date/Time: <i>3-28-19 7:59</i>	Received by: <i>Elaine Cook</i>	Company: <i>COG/Vermon</i>	Date/Time: <i>3-28-19 8:00</i>
Relinquished by: <i>Elaine Cook</i>	Company: <i>Calder</i>	Date/Time: <i>3/28/19 10:00</i>	Received by: <i>Elaine Cook</i>	Company: <i>PA</i>	Date/Time: <i>10:00</i>
Relinquished by: <i>Elaine Cook</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 16:10</i>	Received in Laboratory by: <i>Elaine Cook</i>	Company: <i>JADITH</i>	Date/Time: <i>3-29-19 8:50</i>



Page 40 of 52

4/15/2019





TestAmerica Pittsburgh

301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238-2907  
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com	<b>Project Manager: Dawn Prell</b> Tel/Fax: 248-536-5445	<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot	<b>Date: 3/29/19</b> Carrier:	<b>COC No:</b> 1 of 1 COCs
<b>Analysis Turnaround Time</b> <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below 3-5 days <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>For Lab Use Only:</b> Walk-in Client: Lab Sampling: Job / SDG No.:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWC-50	3/28/2019	9:40	G	Water	2		X	X	
GWC-53	3/28/2019	9:48	G	Water	2		X	X	
GWC-29	3/28/2019	10:30	G	Water	2		X	X	
GWC-52	3/28/2019	10:43	G	Water	2		X	X	
FB-2(PA)	3/28/2019	09:45	G	Water	2		X	X	
FD-2 (PA)	3/28/2019	--	G	Water	2		X	X	
EB-2 (PA)	3/28/2019	11:00	G	Water	2		X	X	
				Water	2		X	X	
				Water	2		X	X	
				Water	2		X	X	
				Water	2		X	X	



**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Chris Tidwell</i>	Company: <i>Coalder</i>	Date/Time: <i>3-29-19 @H10</i>	Received by: <i>[Signature]</i>	Company: <i>TGA</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/29/19</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____

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4/15/2019





Package  
US Airbill

FedEx Tracking Number 8116 7091 8535

Q200

Express Package Servi

301 Alpha Dr  
RIDC Park  
Pittsburgh

FedEx First Overnight

FedEx Standard Overnight

Declared value limit

For

Special Handling and Deli

Signature Delivery

No Signature Required

One box must be opened

Yes No

Payment Bill to

Sender

Total Packages Total Weight

392645  
TESTING  
RT 97  
15:00  
8535  
03-29  
A

180-88291 Waybill

FRI - 29 MAR AA  
STANDARD OVERNIGHT

15238  
PA-US  
PIT

GCA

corrected temp  
ermometer ID

7.9 °C  
10

Initials T

WI-SR-001 effective 11/8/18

MGEA 553C1/45D3/0C8

644



**FedEx** Package  
Express US Airbill

FedEx Tracking Number  
8116 7091 8524

Form ID No. 0200

4 Express Package Service \* To net

Next Business Day

- FedEx First Overnight  
Business Day delivery. Monday through Friday. Saturday delivery is not available. Delivery is subject to carrier's discretion.
- FedEx Priority Overnight  
Business Day delivery. Monday through Friday. Saturday delivery is not available. Delivery is subject to carrier's discretion.
- FedEx Standard Overnight  
Business Day delivery. Monday through Friday. Saturday delivery is not available. Delivery is subject to carrier's discretion.

5 Packaging  
 Fragile  
 Hazardous  
 Restricted  
 Signature Required

6 Special Handling and Delivery Signature  
 Saturday Delivery  
 Signature Required  
 Signature Required  
 Signature Required

7 Payment Bill to:  
Sender  
Recipient  
Third Party

Does this shipment contain dangerous goods?  
No  Yes  As per attached Shipper's Declaration  
Restrictions apply for dangerous goods - see the current FedEx Service Guide

Total Packages Total Weight  
Enter FedEx Acct. No. or I.D. No. Recipient Third Party

Your liability is limited to USD300 unless you declare a higher value. See the current FedEx Service Guide for details. ©2012-2015 FedEx. PRINTED IN U.S.A. R90

1 From  
Date \_\_\_\_\_  
Sender's Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

2 Your Internal Billing Reference \_\_\_\_\_

3 To  
Recipient's Name Sample Control Phone 412.963.7058  
Company TA Pittsburgh  
Address 301 Alpha Dr. City Pittsburgh State PA ZIP 15238  
Address RIDE Park  
City Pittsburgh State PA ZIP 15238

**FRI - 29 MAR AA**  
**STANDARD OVERNIGHT**

**FedEx**  
TRK# **8116 7091 8524**

**15238**  
PA-US  
PIT

**NA AGCA**



Uncorrected temp Thermometer ID  
CF 0 Initials JB  
4.0 / 10 °C

PT-WI-SR-001 effective 11/8/18  
429154 28MAR19 M5EA 553C1/4603/RCBA





merica

FR IN ENVIRONMENTAL TESTING



ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
3500 MCDONOUGH DRIVE  
MORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 29MAR19  
ACTWGT: 59.20 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

TO: **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: **GOLDER**



1 of 3  
TRK# 0201 4651 0081 0450  
## MASTER ##

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**VO AGCA**

Uncorrected temp  
Thermometer ID

15238  
PA-US PIT

CF 0 Initials TS

PT-WL-SR-001 effective 11/8/18



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



TestAmv  
THE LEADER IN ENVIRONMENTAL TESTING

03:30

12:00

5

RT 639

ORIGIN ID: MULA (578) 966-9991

SHIP DATE: 29MAR19  
ACTWTG: 53.20 LB  
CAD: 859116/CAFE3211

BILL RECEIPT

ORIGIN ID: MULA (578) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30054  
UNITED STATES US

TO SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 983-7058  
REF: GOLDER



SATURDAY 12:00P  
PRIORITY OVERNIGHT

12 013

MPS# 4651 0081 0460  
Mstr# 4651 0681 0450

XO AGCA

0281

15238  
PIT  
PA-US

Uncorrected temp 3.1 °C  
Thermometer ID 10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 29MAR19  
ACTWGT: 53.20 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: **GOLDER**



FedEx Express **E**

3 of 3  
MPS# 4651 0081 0471  
0263  
Mstr# 4651 0081 0450

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

0201

**XO AGCA**

15238  
PA-US PIT

Uncorrected temp 4.8 °C  
Thermometer ID 10  
CF 0 Initials JS



PT-JW-SR-001 effective 11/8/18





**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sampler: Bortot, Veronica	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 180-358762.1
Client Contact: Shipping/Receiving				Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):			Job #: 180-88291-1
Address: 3355 McLemore Drive, City: Pensacola		Due Date Requested: 4/4/2019		<b>Analysis Requested</b>			<b>Preservation Codes:</b> A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: FL, 32514		TAT Requested (days):					
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		PO #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_PreP 6020/3005A (MOD) Appendix III & IV			Total Number of containers
Email:		WO #:					
Project Name: CCR - Plant Scherer		Project #: 18019884		Special Instructions/Note:			
Site: CCR Plant Scherer		SSOW#:					
<b>Sample Identification - Client ID (Lab ID)</b>				<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>
Preservation Code:							
GWA-45 (180-88291-1)				3/27/19	11:30 Eastern		Water
GWA-49 (180-88291-2)				3/27/19	12:35 Eastern	X	Water
GWA-21 (180-88291-3)				3/27/19	13:33 Eastern	X	Water
GWA-48 (180-88291-4)				3/27/19	13:55 Eastern	X	Water
GWA-47 (180-88291-5)				3/27/19	14:05 Eastern	X	Water
GWA-22 (180-88291-6)				3/27/19	14:29 Eastern	X	Water
GWA-46 (180-88291-7)				3/27/19	14:55 Eastern	X	Water
GWC-51 (180-88291-8)				3/27/19	15:29 Eastern	X	Water
FB-1 (PA) (180-88291-9)				3/27/19	13:30 Eastern	X	Water
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>							
<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 4/11/19 1700		Company: <i>[Signature]</i>		Date/Time: 4.2.19 0859	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c			

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4/15/2019





**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
 Pittsburgh, PA 15238  
 Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sampler:		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-358762.2			
Client Contact: Shipping/Receiving				Phone:		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 2 of 2			
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):						Job #: 180-88291-1			
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/4/2019		<b>Analysis Requested</b>						<b>Preservation Codes:</b> A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)  Other:	
TAT Requested (days):		PO #:		WO #:									
Project Name: CCR - Plant Scherer				Project #: 18019884		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Site: CCR Plant Scherer				SSOW#:		7470A/7470A_Prep		6020/3005A (MOD) Appendix III & IV					
<b>Sample Identification - Client ID (Lab ID)</b>			<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>					<b>Special Instructions/Note:</b>		
FD-1 (PA) (180-88291-10)			3/27/19	Eastern		Water	X	X			1		
EB-1 (PA) (180-88291-11)			3/27/19	15:15 Eastern		Water	X	X			1		
Preservation Code:													

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>							
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°C, 13.5°C, 13.2°C							

Ver: 01/16/2019



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88291**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88291**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 12:51 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88348**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88348**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 12:57 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**ANALYTICAL RESULTS**  
**SURFACE WATER**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88433-1

Laboratory Sample Delivery Group: Surface Water  
Client Project/Site: CCR - Plant Scherer

**For:**

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/29/2019 6:54:29 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Job ID: 180-88433-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-88433-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/3/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.1° C.

#### Receipt Exceptions

Limited sample volume was received; TDS will be analyzed first with minimal volume so that all the analysis can be run.: SWC-5 (180-88433-4).

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.8, 6020: The post digestion spike % recovery associated with batch 400-436932 was outside of control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

Method(s) 9014, SM 4500 CN E: After the cyanide run had completed, it was noticed that the second point in the curve had surpassed the plus/minus 20% recovery threshold (-21.76). The results are reported as samples were analyzed on the last day of holding time . SWA-2 (180-88433-1), SWA-3 (180-88433-2) and SWC-7 (180-88433-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
 SDG: Surface Water

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88433-1	SWA-2	Water	04/01/19 15:33	04/03/19 09:40
180-88433-2	SWA-3	Water	04/01/19 15:15	04/03/19 09:40
180-88433-3	SWC-4	Water	04/01/19 14:24	04/03/19 09:40
180-88433-4	SWC-5	Water	04/01/19 14:10	04/03/19 09:40
180-88433-5	SWC-6	Water	04/01/19 14:47	04/03/19 09:40
180-88433-6	SWC-7	Water	04/01/19 14:37	04/03/19 09:40
180-88433-7	SWC-8	Water	04/01/19 15:05	04/03/19 09:40



# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
EPA 410.4	COD	MCAWW	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	TAL PIT
SM 4500CN E	Total Cyanide	SM	TAL PIT
SM 5310C	Total Organic Carbon	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
410.4	COD	MCAWW	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PEN
SM 4500 CN C	Cyanide, Distillation	SM	TAL PIT

**Protocol References:**

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWA-2**  
**Date Collected: 04/01/19 15:33**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:14	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:17	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:03	JAP	TAL PEN
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10S		1			276193	04/18/19 14:51	JAS	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275344	04/10/19 08:57	JMS	TAL PIT
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL1		1			275848	04/15/19 16:47	JAS	TAL PIT
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			275163	04/09/19 00:46	CLL	TAL PIT

**Client Sample ID: SWA-3**  
**Date Collected: 04/01/19 15:15**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:30	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:21	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:05	JAP	TAL PEN
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10S		1			276193	04/18/19 14:52	JAS	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL1		1			275848	04/15/19 16:52	JAS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWA-3**  
**Date Collected: 04/01/19 15:15**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1			275163	04/09/19 01:04	CLL	TAL PIT

**Client Sample ID: SWC-4**  
**Date Collected: 04/01/19 14:24**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT

**Client Sample ID: SWC-5**  
**Date Collected: 04/01/19 14:10**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 14:02	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:30	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT

**Client Sample ID: SWC-6**  
**Date Collected: 04/01/19 14:47**  
**Date Received: 04/03/19 09:40**

**Lab Sample ID: 180-88433-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 14:17	CMR	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-6**

**Lab Sample ID: 180-88433-5**

Date Collected: 04/01/19 14:47

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:33	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:15	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-88433-6**

Date Collected: 04/01/19 14:37

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			275670	04/13/19 14:33	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:37	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:19	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4		1			276193	04/18/19 14:53	JAS	TAL PIT
Instrument ID: GENESYS10S										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E		1			275848	04/15/19 16:54	JAS	TAL PIT
Instrument ID: SEAL1										
Total/NA	Analysis	SM 5310C		1			275163	04/09/19 01:22	CLL	TAL PIT
Instrument ID: TOC1030										

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-88433-7**

Date Collected: 04/01/19 15:05

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			275670	04/13/19 15:21	CMR	TAL PIT
Instrument ID: CHICS2100B										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-88433-7**

**Date Collected: 04/01/19 15:05**

**Matrix: Water**

**Date Received: 04/03/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:41	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:21	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Prep

JAS = Joshua Schmidt

Batch Type: Analysis

AVS = Abbey Smith

CLL = Cheryl Loheyde

CMR = Carl Reagle

JAS = Joshua Schmidt

JMS = Jessica Scalise

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWA-2**  
Date Collected: 04/01/19 15:33  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-1**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/13/19 13:14	1
Fluoride	0.028	J	0.20	0.026	mg/L			04/13/19 13:14	1
Sulfate	200		1.0	0.38	mg/L			04/13/19 13:14	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:17	5
Barium	0.070		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:17	5
Boron	1.2		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:17	5
Calcium	35		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:17	5
Cobalt	0.0054		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:17	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:17	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:17	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:17	5
Vanadium	0.0030		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:17	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:17	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:17	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:17	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:03	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	19		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:51	1
Total Dissolved Solids	400		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:47	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			04/09/19 00:46	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4	HF	0.1	0.1	SU			04/10/19 08:57	1

**Client Sample ID: SWA-3**  
Date Collected: 04/01/19 15:15  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-2**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			04/13/19 13:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 13:30	1
Sulfate	88		1.0	0.38	mg/L			04/13/19 13:30	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:21	5
Barium	0.044		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:21	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWA-3**  
Date Collected: 04/01/19 15:15  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-2**  
Matrix: Water

### Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Boron</b>	<b>0.59</b>		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:21	5
<b>Calcium</b>	<b>13</b>		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:21	5
<b>Cobalt</b>	<b>0.0041</b>		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:21	5
<b>Vanadium</b>	<b>0.0037</b>		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:21	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:21	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:05	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chemical Oxygen Demand</b>	<b>15</b>		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:52	1
<b>Total Dissolved Solids</b>	<b>210</b>		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:52	1
<b>Total Organic Carbon - Duplicates</b>	<b>0.67</b>	<b>J</b>	1.0	0.51	mg/L			04/09/19 01:04	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.2</b>	<b>HF</b>	0.1	0.1	SU			04/10/19 09:01	1

**Client Sample ID: SWC-4**  
Date Collected: 04/01/19 14:24  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-3**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>8.1</b>		1.0	0.71	mg/L			04/13/19 13:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 13:46	1
<b>Sulfate</b>	<b>110</b>		1.0	0.38	mg/L			04/13/19 13:46	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:26	5
<b>Barium</b>	<b>0.051</b>		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:26	5
<b>Boron</b>	<b>0.63</b>		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:26	5
<b>Calcium</b>	<b>22</b>		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:26	5
<b>Cobalt</b>	<b>0.0020</b>	<b>J</b>	0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:26	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-4**  
Date Collected: 04/01/19 14:24  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-3**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:26	5
<b>Vanadium</b>	<b>0.0044</b>		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>250</b>		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.6</b>	<b>HF</b>	0.1	0.1	SU			04/10/19 09:01	1

**Client Sample ID: SWC-5**  
Date Collected: 04/01/19 14:10  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>16</b>		1.0	0.71	mg/L			04/13/19 14:02	1
<b>Fluoride</b>	<b>0.12</b>	<b>J</b>	0.20	0.026	mg/L			04/13/19 14:02	1
<b>Sulfate</b>	<b>63</b>		1.0	0.38	mg/L			04/13/19 14:02	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Barium</b>	<b>0.032</b>		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Boron</b>	<b>0.061</b>		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Calcium</b>	<b>37</b>		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Chromium</b>	<b>0.0035</b>		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Selenium</b>	<b>0.0035</b>		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:30	5
<b>Vanadium</b>	<b>0.0087</b>		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:30	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:30	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-5**  
Date Collected: 04/01/19 14:10  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-4**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>260</b>		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.5</b>	<b>HF</b>	0.1	0.1	SU			04/10/19 09:01	1

**Client Sample ID: SWC-6**  
Date Collected: 04/01/19 14:47  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.3</b>		1.0	0.71	mg/L			04/13/19 14:17	1
<b>Fluoride</b>	<b>0.037</b>	<b>J</b>	0.20	0.026	mg/L			04/13/19 14:17	1
<b>Sulfate</b>	<b>1.3</b>		1.0	0.38	mg/L			04/13/19 14:17	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0010</b>	<b>J</b>	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:33	5
<b>Barium</b>	<b>0.032</b>		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:33	5
Boron	<0.021		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:33	5
<b>Calcium</b>	<b>10</b>		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:33	5
<b>Cobalt</b>	<b>0.0032</b>		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:33	5
<b>Chromium</b>	<b>0.0013</b>	<b>J</b>	0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:33	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:33	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:33	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:33	5
<b>Vanadium</b>	<b>0.0081</b>		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:33	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:33	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:33	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:33	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.7</b>	<b>HF</b>	0.1	0.1	SU			04/10/19 09:01	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-88433-6**

Date Collected: 04/01/19 14:37

Matrix: Water

Date Received: 04/03/19 09:40

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.71	mg/L			04/13/19 14:33	1
Fluoride	0.081	J	0.20	0.026	mg/L			04/13/19 14:33	1
Sulfate	87		1.0	0.38	mg/L			04/13/19 14:33	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:37	5
Barium	0.058		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:37	5
Boron	0.51		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:37	5
Calcium	23		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:37	5
Cobalt	0.00043	J	0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:37	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:37	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:37	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:37	5
Vanadium	0.0072		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:37	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:37	5
Copper	0.0023	J	0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:37	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:37	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:53	1
Total Dissolved Solids	230		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:54	1
Total Organic Carbon - Duplicates	1.7		1.0	0.51	mg/L			04/09/19 01:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8	HF	0.1	0.1	SU			04/10/19 09:01	1

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-88433-7**

Date Collected: 04/01/19 15:05

Matrix: Water

Date Received: 04/03/19 09:40

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			04/13/19 15:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 15:21	1
Sulfate	140		1.0	0.38	mg/L			04/13/19 15:21	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00081	J	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:41	5
Barium	0.061		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:41	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

**Client Sample ID: SWC-8**  
Date Collected: 04/01/19 15:05  
Date Received: 04/03/19 09:40

**Lab Sample ID: 180-88433-7**  
Matrix: Water

### Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Boron</b>	<b>0.87</b>		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:41	5
<b>Calcium</b>	<b>26</b>		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:41	5
<b>Cobalt</b>	<b>0.0049</b>		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:41	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:41	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:41	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:41	5
<b>Vanadium</b>	<b>0.0056</b>		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:41	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:41	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:41	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:41	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:21	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>300</b>		10	10	mg/L			04/05/19 13:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.4</b>	<b>HF</b>	0.1	0.1	SU			04/10/19 09:01	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-275670/5**  
**Matrix: Water**  
**Analysis Batch: 275670**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/19 07:25	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 07:25	1
Sulfate	<0.38		1.0	0.38	mg/L			04/13/19 07:25	1

**Lab Sample ID: LCS 180-275670/6**  
**Matrix: Water**  
**Analysis Batch: 275670**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.4		mg/L		102	90 - 110
Fluoride	1.25	1.14		mg/L		92	90 - 110
Sulfate	25.0	24.9		mg/L		100	90 - 110

**Lab Sample ID: 180-88433-3 MS**  
**Matrix: Water**  
**Analysis Batch: 275670**

**Client Sample ID: SWC-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.1		25.0	33.0		mg/L		100	80 - 120
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120
Sulfate	110		25.0	128	4	mg/L		83	80 - 120

**Lab Sample ID: 180-88433-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 275670**

**Client Sample ID: SWC-4**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.1		25.0	32.8		mg/L		99	80 - 120	1	20
Fluoride	<0.026		1.25	1.17		mg/L		94	80 - 120	1	20
Sulfate	110		25.0	127	4	mg/L		77	80 - 120	1	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-436825/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436932**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 436825**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 09:23	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 09:23	5
Boron	<0.021		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 09:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 09:23	5
Calcium	<0.13		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 09:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 09:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 09:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 09:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 09:23	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 09:23	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 09:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 09:23	5

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-436825/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436932**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 436825**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 09:23	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 09:23	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 09:23	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 09:23	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 09:23	5

**Lab Sample ID: LCS 400-436825/2-A**  
**Matrix: Water**  
**Analysis Batch: 436932**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 436825**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0501		mg/L		100	80 - 120
Barium	0.0500	0.0506		mg/L		101	80 - 120
Boron	0.100	0.108		mg/L		108	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Calcium	5.00	4.74		mg/L		95	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Cobalt	0.0500	0.0488		mg/L		98	80 - 120
Chromium	0.0500	0.0472		mg/L		94	80 - 120
Lead	0.0500	0.0507		mg/L		101	80 - 120
Antimony	0.0500	0.0430		mg/L		86	80 - 120
Selenium	0.0500	0.0479		mg/L		96	80 - 120
Thallium	0.0100	0.00993		mg/L		99	80 - 120
Nickel	0.0500	0.0495		mg/L		99	80 - 120
Vanadium	0.0500	0.0471		mg/L		94	80 - 120
Silver	0.0500	0.0505		mg/L		101	80 - 120
Copper	0.0500	0.0483		mg/L		97	80 - 120
Zinc	0.0500	0.0503		mg/L		101	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 400-436430/14-A**  
**Matrix: Water**  
**Analysis Batch: 436767**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 436430**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 09:46	1

**Lab Sample ID: LCS 400-436430/15-A**  
**Matrix: Water**  
**Analysis Batch: 436767**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 436430**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000960		mg/L		95	80 - 120



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Method: EPA 410.4 - COD

Lab Sample ID: MB 180-276185/14-A  
Matrix: Water  
Analysis Batch: 276193

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 276185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:38	1

Lab Sample ID: LCS 180-276185/13-A  
Matrix: Water  
Analysis Batch: 276193

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 276185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	100		mg/L		100	90 - 110

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274973/2  
Matrix: Water  
Analysis Batch: 274973

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/05/19 13:12	1

Lab Sample ID: LCS 180-274973/1  
Matrix: Water  
Analysis Batch: 274973

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	296		mg/L		97	80 - 120

Lab Sample ID: 180-88433-7 DU  
Matrix: Water  
Analysis Batch: 274973

Client Sample ID: SWC-8  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		293		mg/L		4	10

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-275344/1  
Matrix: Water  
Analysis Batch: 275344

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: LCS 180-275345/1  
Matrix: Water  
Analysis Batch: 275345

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 180-88433-6 DU  
Matrix: Water  
Analysis Batch: 275345

Client Sample ID: SWC-7  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8	HF	7.8		SU		0.6	2

## Method: SM 4500CN E - Total Cyanide

Lab Sample ID: MB 180-275771/4-A  
Matrix: Water  
Analysis Batch: 275848

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:36	1

Lab Sample ID: MB 180-275771/4-A  
Matrix: Water  
Analysis Batch: 275914

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/16/19 10:57	1

Lab Sample ID: HLCS 180-275771/2-A  
Matrix: Water  
Analysis Batch: 275848

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.250	0.255		mg/L		102	90 - 110

Lab Sample ID: LCS 180-275771/3-A  
Matrix: Water  
Analysis Batch: 275848

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.200	0.193		mg/L		96	90 - 110

Lab Sample ID: LCS 180-275771/3-A  
Matrix: Water  
Analysis Batch: 275914

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.200	0.200		mg/L		100	90 - 110

Lab Sample ID: LLCS 180-275771/1-A  
Matrix: Water  
Analysis Batch: 275848

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 275771

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.0500	0.0456		mg/L		91	90 - 110

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
 SDG: Surface Water

## Method: SM 4500CN E - Total Cyanide (Continued)

**Lab Sample ID: LLCS 180-275771/1-A**  
**Matrix: Water**  
**Analysis Batch: 275914**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 275771**  
**%Rec.**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0525		mg/L		105	90 - 110

## Method: SM 5310C - Total Organic Carbon

**Lab Sample ID: MB 180-275163/36**  
**Matrix: Water**  
**Analysis Batch: 275163**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/19 22:21	1

**Lab Sample ID: LCS 180-275163/34**  
**Matrix: Water**  
**Analysis Batch: 275163**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	20.0		mg/L		100	85 - 115

**Lab Sample ID: LCSD 180-275163/35**  
**Matrix: Water**  
**Analysis Batch: 275163**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.8		mg/L		104	85 - 115	4	20

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## HPLC/IC

### Analysis Batch: 275670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-88433-2	SWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88433-4	SWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88433-5	SWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-88433-6	SWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-88433-7	SWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-275670/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-275670/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3 MS	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3 MSD	SWC-4	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 436430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	7470A	
180-88433-2	SWA-3	Total/NA	Water	7470A	
180-88433-3	SWC-4	Total/NA	Water	7470A	
180-88433-4	SWC-5	Total/NA	Water	7470A	
180-88433-5	SWC-6	Total/NA	Water	7470A	
180-88433-6	SWC-7	Total/NA	Water	7470A	
180-88433-7	SWC-8	Total/NA	Water	7470A	
MB 400-436430/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-436430/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 436767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	7470A	436430
180-88433-2	SWA-3	Total/NA	Water	7470A	436430
180-88433-3	SWC-4	Total/NA	Water	7470A	436430
180-88433-4	SWC-5	Total/NA	Water	7470A	436430
180-88433-5	SWC-6	Total/NA	Water	7470A	436430
180-88433-6	SWC-7	Total/NA	Water	7470A	436430
180-88433-7	SWC-8	Total/NA	Water	7470A	436430
MB 400-436430/14-A	Method Blank	Total/NA	Water	7470A	436430
LCS 400-436430/15-A	Lab Control Sample	Total/NA	Water	7470A	436430

### Prep Batch: 436825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total Recoverable	Water	3005A	
180-88433-2	SWA-3	Total Recoverable	Water	3005A	
180-88433-3	SWC-4	Total Recoverable	Water	3005A	
180-88433-4	SWC-5	Total Recoverable	Water	3005A	
180-88433-5	SWC-6	Total Recoverable	Water	3005A	
180-88433-6	SWC-7	Total Recoverable	Water	3005A	
180-88433-7	SWC-8	Total Recoverable	Water	3005A	
MB 400-436825/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-436825/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## Metals

### Analysis Batch: 436932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total Recoverable	Water	6020	436825
180-88433-2	SWA-3	Total Recoverable	Water	6020	436825
180-88433-3	SWC-4	Total Recoverable	Water	6020	436825
180-88433-4	SWC-5	Total Recoverable	Water	6020	436825
180-88433-5	SWC-6	Total Recoverable	Water	6020	436825
180-88433-6	SWC-7	Total Recoverable	Water	6020	436825
180-88433-7	SWC-8	Total Recoverable	Water	6020	436825
MB 400-436825/1-A ^5	Method Blank	Total Recoverable	Water	6020	436825
LCS 400-436825/2-A	Lab Control Sample	Total Recoverable	Water	6020	436825

## General Chemistry

### Analysis Batch: 274973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 2540C	
180-88433-2	SWA-3	Total/NA	Water	SM 2540C	
180-88433-3	SWC-4	Total/NA	Water	SM 2540C	
180-88433-4	SWC-5	Total/NA	Water	SM 2540C	
180-88433-5	SWC-6	Total/NA	Water	SM 2540C	
180-88433-6	SWC-7	Total/NA	Water	SM 2540C	
180-88433-7	SWC-8	Total/NA	Water	SM 2540C	
MB 180-274973/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274973/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-88433-7 DU	SWC-8	Total/NA	Water	SM 2540C	

### Analysis Batch: 275163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 5310C	
180-88433-2	SWA-3	Total/NA	Water	SM 5310C	
180-88433-6	SWC-7	Total/NA	Water	SM 5310C	
MB 180-275163/36	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-275163/34	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-275163/35	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

### Analysis Batch: 275344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500 H+ B	
LCS 180-275344/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 275345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-2	SWA-3	Total/NA	Water	SM 4500 H+ B	
180-88433-3	SWC-4	Total/NA	Water	SM 4500 H+ B	
180-88433-4	SWC-5	Total/NA	Water	SM 4500 H+ B	
180-88433-5	SWC-6	Total/NA	Water	SM 4500 H+ B	
180-88433-6	SWC-7	Total/NA	Water	SM 4500 H+ B	
180-88433-7	SWC-8	Total/NA	Water	SM 4500 H+ B	
LCS 180-275345/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-88433-6 DU	SWC-7	Total/NA	Water	SM 4500 H+ B	



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1  
SDG: Surface Water

## General Chemistry

### Prep Batch: 275771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500 CN C	
180-88433-2	SWA-3	Total/NA	Water	SM 4500 CN C	
180-88433-6	SWC-7	Total/NA	Water	SM 4500 CN C	
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-275771/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

### Analysis Batch: 275848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500CN E	275771
180-88433-2	SWA-3	Total/NA	Water	SM 4500CN E	275771
180-88433-6	SWC-7	Total/NA	Water	SM 4500CN E	275771
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500CN E	275771
HLCS 180-275771/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771

### Analysis Batch: 275914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500CN E	275771
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771

### Prep Batch: 276185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	410.4	
180-88433-2	SWA-3	Total/NA	Water	410.4	
180-88433-6	SWC-7	Total/NA	Water	410.4	
MB 180-276185/14-A	Method Blank	Total/NA	Water	410.4	
LCS 180-276185/13-A	Lab Control Sample	Total/NA	Water	410.4	

### Analysis Batch: 276193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	EPA 410.4	276185
180-88433-2	SWA-3	Total/NA	Water	EPA 410.4	276185
180-88433-6	SWC-7	Total/NA	Water	EPA 410.4	276185
MB 180-276185/14-A	Method Blank	Total/NA	Water	EPA 410.4	276185
LCS 180-276185/13-A	Lab Control Sample	Total/NA	Water	EPA 410.4	276185

# Chain of Custody Record

<b>Client Information</b>		Sampler: Karim Minkara		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 400-68569-27833.1							
Client Contact: Joju Abraham		Phone: 470-715-3225		E-Mail: veronica.bortot@testamericainc.com				Page: Page 1 of 1							
Company: Southern Company				<b>Analysis Requested</b>				Job #:							
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:								Preservation Codes:					
City: Atlanta		TAT Requested (days): 3 - 5 days						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA							
State, Zip: GA, 30308								M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Phone:		PO #: SCS10347656						Other:							
Email: JAbraham@southernco.com		WO #:						Special Instructions/Note: Was not provided with trip blanks							
Project Name: CCR - Plant Scherer		Project #: 18019884													
Site: Surface Water		SSOW#:													
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type (C=Comp, G=grab)</b>		<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>		<b>Field Filtered Sample (Yes or No)</b>		<b>Perform MS/MSD (Yes or No)</b>		<b>Total Number of containers</b>	
										<b>Preservation Code:</b>		N		B	
SWA-2		4/1/19		1533		G		Water		N		X X X X X X X		7	
SWA-3		4/1/19		1515		G		Water		N		X X X X X X X		7	
SWC-4		4/1/19		1424		G		Water		N		X X X X X		2	
SWC-5		4/1/19		1410		G		Water		N		X X X X X		2	
SWC-6		4/1/19		1447		G		Water		N		X X X X X		2	
SWC-7		4/1/19		1437		G		Water		N		X X X X X X X		7	
SWC-8		4/1/19		1505		G		Water		N		X X X X X		2	



180-88433 Chain of Custody

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if )</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> A: _____                   Morris: _____			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-2-19 7:55		Company: Golder		Received by: <i>Maive Cook 07:58</i>	
Relinquished by: <i>Maive Cook</i>		Date/Time: 4/2/19 09:30		Company: <i>Comin</i>		Received by: <i>Ly 2</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 4/2/19 16:16		Company: <i>TA</i>		Received by: <i>[Signature]</i>	
Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No: <i>1616</i>		Cooler Temperature(s) °C and Other Remarks: <i>9.40</i>			





STANDARD OVERNIGHT Master 4651 0081 0894  
TRACK# 4651 0081 0894

# TestAmerica

MENTAL TESTING

THE LEADER IN ENVIRON

SHIP DATE: 02APR19  
ACTWGT: 69.30 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 McDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

TO SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238

(412) 963-7068  
REF: SOUTHERN CO.



180-88433 Waybill

4651 0081 0910

Master# 4651 0881 0894

0201

15238  
PIT

PA-US

# NA AGCA



1.2 / 10 °C

Uncorrected temp  
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

TRACK# 4651 0081 0910

# TestAmerica

MENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 02APR19  
ACTWGT: 69.30 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
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TO SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238

(412) 963-7068  
REF: SOUTHERN CO.



WED - 03 APR 3:00P  
STANDARD OVERNIGHT

3 of 3  
1651 0081 0910

Master# 4651 0081 0894

0201

15238  
PIT

PA-US

# NA AGCA



2.1 / 10 °C

Uncorrected temp  
Thermometer ID

CF 0 Initials

PT-WI-SR-001 effective 11/8/18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



**Eurofins TestAmerica, Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>				Sampler: Bortot, Veronica	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 180-359238.1	
Client Contact: Shipping/Receiving				Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):			Job #: 180-88433-1	
Address: 3355 McLemore Drive,		Due Date Requested: 4/15/2019		<b>Analysis Requested</b>				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)  Other:
City: Pensacola		TAT Requested (days):						
State, Zip: FL, 32514		PO #:		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A_Prep	6020/3006A (MOD) Appendix III & IV	
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		WO #:						
Email:		Project #: 18019884		Total Number of containers				
Project Name: CCR - Plant Scherer		SSOW#:						
Site: CCR Plant Scherer								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)			Special Instructions/Note:
SWA-2 (180-88433-1)		4/1/19	15:33 Eastern		Water	X	X	1
SWA-3 (180-88433-2)		4/1/19	15:15 Eastern		Water	X	X	1
SWC-4 (180-88433-3)		4/1/19	14:24 Eastern		Water	X	X	1
SWC-5 (180-88433-4)		4/1/19	14:10 Eastern		Water	X	X	1
SWC-6 (180-88433-5)		4/1/19	14:47 Eastern		Water	X	X	1
SWC-7 (180-88433-6)		4/1/19	14:37 Eastern		Water	X	X	1
SWC-8 (180-88433-7)		4/1/19	15:05 Eastern		Water	X	X	1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4/15/19 1200	Company: <i>[Signature]</i>	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time: 4-6-19 0827	Company: TAPEN
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.6°C, 3.0°C, 3.2°C 1B7			



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88433-1  
SDG Number: Surface Water

**Login Number: 88433**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88433-1  
SDG Number: Surface Water

**Login Number: 88433**  
**List Number: 2**  
**Creator: Conrady, Hank W**

**List Source: Eurofins TestAmerica, Pensacola**  
**List Creation: 04/06/19 12:58 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C 2.6°C 3.2°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**

**EFFLUENT**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88437-1  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/15/2019 4:13:56 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416

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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

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**Job ID: 180-88437-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

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**Job Narrative**  
**180-88437-1**

## Comments

No additional comments.

## Receipt

The samples were received on 4/3/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.1° C.

## Metals

Method(s) 245.1, 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-436242 and analytical batch 400-436463 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7470A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EFFLUENT (180-88437-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Pittsburgh

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88437-1	EFFLUENT	Water	04/01/19 12:55	04/03/19 09:40

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001





# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

**Client Sample ID: EFFLUENT**

**Lab Sample ID: 180-88437-1**

**Date Collected: 04/01/19 12:55**

**Matrix: Water**

**Date Received: 04/03/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436360	04/09/19 11:00	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436562	04/09/19 23:45	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436242	04/08/19 12:56	JAP	TAL PEN
Total/NA	Analysis	7470A		20			436463	04/09/19 14:54	JAP	TAL PEN
Instrument ID: HYDRA AA2										

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

**Analyst References:**

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

**Client Sample ID: EFFLUENT**

**Lab Sample ID: 180-88437-1**

Date Collected: 04/01/19 12:55

Matrix: Water

Date Received: 04/03/19 09:40

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033		0.0013	0.00046	mg/L		04/09/19 11:00	04/09/19 23:45	5
Barium	0.43		0.0025	0.00049	mg/L		04/09/19 11:00	04/09/19 23:45	5
Beryllium	0.0029		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 23:45	5
Cadmium	0.0038		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 23:45	5
Cobalt	0.026		0.0025	0.00040	mg/L		04/09/19 11:00	04/09/19 23:45	5
Chromium	0.12		0.0025	0.0011	mg/L		04/09/19 11:00	04/09/19 23:45	5
Lead	0.031		0.0013	0.00035	mg/L		04/09/19 11:00	04/09/19 23:45	5
Antimony	0.0083		0.0025	0.0010	mg/L		04/09/19 11:00	04/09/19 23:45	5
Selenium	0.076		0.0013	0.00071	mg/L		04/09/19 11:00	04/09/19 23:45	5
Thallium	0.00021	J	0.00050	0.000085	mg/L		04/09/19 11:00	04/09/19 23:45	5
Vanadium	0.048		0.0025	0.0014	mg/L		04/09/19 11:00	04/09/19 23:45	5
Zinc	0.29		0.020	0.0065	mg/L		04/09/19 11:00	04/09/19 23:45	5
Copper	0.18		0.0025	0.0021	mg/L		04/09/19 11:00	04/09/19 23:45	5
Nickel	0.16		0.0025	0.0018	mg/L		04/09/19 11:00	04/09/19 23:45	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.0040	0.0014	mg/L		04/08/19 12:56	04/09/19 14:54	20

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-436360/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436562**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 436360**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/09/19 11:00	04/09/19 21:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/09/19 11:00	04/09/19 21:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 21:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 21:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/09/19 11:00	04/09/19 21:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/09/19 11:00	04/09/19 21:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/09/19 11:00	04/09/19 21:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/09/19 11:00	04/09/19 21:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/09/19 11:00	04/09/19 21:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/09/19 11:00	04/09/19 21:02	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/09/19 11:00	04/09/19 21:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/09/19 11:00	04/09/19 21:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/09/19 11:00	04/09/19 21:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/09/19 11:00	04/09/19 21:02	5

**Lab Sample ID: LCS 400-436360/2-A**  
**Matrix: Water**  
**Analysis Batch: 436562**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 436360**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0489		mg/L		98	80 - 120
Barium	0.0500	0.0468		mg/L		94	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Cobalt	0.0500	0.0508		mg/L		102	80 - 120
Chromium	0.0500	0.0491		mg/L		98	80 - 120
Lead	0.0500	0.0496		mg/L		99	80 - 120
Antimony	0.0500	0.0484		mg/L		97	80 - 120
Selenium	0.0500	0.0478		mg/L		96	80 - 120
Thallium	0.0100	0.00966		mg/L		97	80 - 120
Vanadium	0.0500	0.0478		mg/L		96	80 - 120
Zinc	0.0500	0.0486		mg/L		97	80 - 120
Copper	0.0500	0.0503		mg/L		101	80 - 120
Nickel	0.0500	0.0503		mg/L		101	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 400-436242/14-A**  
**Matrix: Water**  
**Analysis Batch: 436463**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 436242**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/08/19 12:55	04/09/19 14:23	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 400-436242/15-A  
Matrix: Water  
Analysis Batch: 436463

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 436242  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00114		mg/L		114	80 - 120

- 1
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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

## Metals

### Prep Batch: 436242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total/NA	Water	7470A	
MB 400-436242/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-436242/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 436360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total Recoverable	Water	3005A	
MB 400-436360/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-436360/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 436463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total/NA	Water	7470A	436242
MB 400-436242/14-A	Method Blank	Total/NA	Water	7470A	436242
LCS 400-436242/15-A	Lab Control Sample	Total/NA	Water	7470A	436242

### Analysis Batch: 436562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total Recoverable	Water	6020	436360
MB 400-436360/1-A ^5	Method Blank	Total Recoverable	Water	6020	436360
LCS 400-436360/2-A	Lab Control Sample	Total Recoverable	Water	6020	436360



### Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

4/15/2019

COC No 400-68569-27833 1	Page Page 1 of 1	Lab PM Bortol, Veronica	E-Mail veronica.bortol@testamericainc.com	Client Information Client Contact Joju Abraham 470-715-3225	Southern Company
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Job #:	Analysis Requested	Due Date Requested:	Southern Company
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Address: 241 Ralph McGill Blvd SE B10185 Atlanta State, Zip: GA, 30308	City: Atlanta TAT Requested (days): 3 - 5 days	Phone: PO #: SCS10347656	Email: Jabraham@southernco.com Project #: 18019884 SSOW#:
--	---	--------------------------------	---

Sample Identification	Sample Matrix (Water, Solid, O-wastestuff, B-tissue, A-Alt)	Sample Type (Comp, Grab)	Sample Time	Sample Date	Effluent
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Sample Date	Sample Time	Sample Date	Sample Time	Sample Date	Sample Time
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Sample Identification	Sample Matrix	Sample Type	Sample Time	Sample Date	Sample Time	Sample Date	Sample Time	Sample Date
				4/1/19	1255	G	Water	N
								X
Total Number of containers								
Special Instructions/Note:								
1 X								
Sampled from Unit 4								



180-88437 Chain of Custody

<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/OC Requirements: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
--	---

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
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Relinquished by:	Date/Time:	Company:	Relinquished by:	Date/Time:	Company:
	4/2-4/755		Blaine Cook	4/2/19	09:30
				4/2/19	10:10
				4/2/19	09:30
Relinquished by:	Date/Time:	Company:	Relinquished by:	Date/Time:	Company:

Cooler Temperatures (C and Other Remarks):	Custody Seal No. <input type="checkbox"/> Yes <input type="checkbox"/> No
--	---



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TRACK: 4651 0081 0910

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: NLA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 McDONOUGH DRIVE  
MCDONOUGH, GA 30093  
UNITED STATES US

SHIP DATE: 02APR19  
ACTWT: 69.30 LB  
CND: 859116/CAFE321

BILL RECIPIENT

**SAMPLE RECEIVING**  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238  
(412) 963-7068  
REF: SOUTHERN CO.



3 of 3  
1651 0081 0910  
4651 0081 0894  
**NA AGCA**

WED - 03 APR 3:00P  
STANDARD OVERNIGHT  
0201

PA-US PIT 15238

Uncorrected temp  
Thermometer ID

CF 0 Initials

21/10 °C



PT-WI-SR-001 effective 11/8/18

SHIP STANDARD OVERNIGHT Master 4651 0081 0894  
TRACK: 4651 0081 0910

# TestAmerica

THE LEADER IN ENVIRON

ORIGIN ID: NLA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 McDONOUGH DRIVE  
MCDONOUGH, GA 30093  
UNITED STATES US

SHIP DATE: 02APR19  
ACTWT: 69.30 LB  
CND: 859116/CAFE3211

BILL RECIPIENT

**SAMPLE RECEIVING**  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238  
(412) 963-7068  
REF: SOUTHERN CO.



3 of 3  
1651 0081 0909  
4651 0081 0894  
**NA AGCA**

WED - 03 APR 3:00P  
STANDARD OVERNIGHT  
0201

PA-US PIT 15238

Uncorrected temp  
Thermometer ID

CF 0 Initials

1.2/10 °C



PT-WI-SR-001 effective 11/8/18





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88437-1

**Login Number: 88437**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88437-1

**Login Number: 88437**  
**List Number: 2**  
**Creator: Conrady, Hank W**

**List Source: Eurofins TestAmerica, Pensacola**  
**List Creation: 04/06/19 12:58 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C 3.2°C 2.6°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





**APPENDIX A**

# FIELD DATA FORMS

**FIELD DATA FORMS**

**CELL 1**

Product Name: Low-Flow System

Date: 2019-03-26 10:46:55

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 25 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWA-15  
Well diameter 2 in  
Well Total Depth 29.59 ft  
Screen Length 10 ft  
Depth to Water 9.87 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.12 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:30:26	300.07	17.56	5.78	52.48	1.39	10.11	0.34	76.10
Last 5	10:35:26	600.02	17.22	5.45	52.65	3.41	10.12	0.26	68.03
Last 5	10:40:26	900.02	17.48	5.41	53.22	1.96	10.13	0.22	65.60
Last 5	10:45:26	1200.02	17.68	5.41	53.60	2.04	10.13	0.20	63.96
Last 5									
Variance 0			-0.34	-0.33	0.17			-0.08	-8.08
Variance 1			0.26	-0.04	0.57			-0.03	-2.43
Variance 2			0.20	0.00	0.38			-0.02	-1.63

Notes

Sampled GWA-15 at 1045

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 11:23:29

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 53.00 ft

Pump placement from TOC 53.00 ft

Well Information:

Well ID GWA-16  
Well diameter 2 in  
Well Total Depth 57.93 ft  
Screen Length 10 ft  
Depth to Water 30.43 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4515614 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.92 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:00:45	300.03	18.78	6.38	101.65	5.75	30.83	5.96	118.05
Last 5	11:05:45	600.02	18.52	6.41	102.38	3.38	30.84	5.90	118.51
Last 5	11:10:45	900.01	18.79	6.40	102.30	3.01	30.84	5.82	122.00
Last 5	11:15:45	1200.01	18.80	6.42	102.80	2.71	30.84	5.79	126.63
Last 5	11:20:45	1500.00	18.79	6.42	103.27	2.07	30.84	5.77	136.33
Variance 0			0.27	-0.01	-0.08			-0.08	3.49
Variance 1			0.02	0.01	0.50			-0.03	4.63
Variance 2			-0.02	0.00	0.47			-0.02	9.70

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 10:07:00

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 41.76 ft

Pump placement from TOC 41.76 ft

Well Information:

Well ID GWA-17  
Well diameter 2 in  
Well Total Depth 46.76 ft  
Screen Length 10 ft  
Depth to Water 30.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4013925 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.8 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:43:04	300.08	18.88	6.16	74.29	9.08	31.35	6.77	94.84
Last 5	09:48:04	600.02	18.90	6.13	76.55	7.39	31.40	6.79	100.29
Last 5	09:53:04	900.01	18.82	6.13	77.91	6.37	31.40	6.83	104.85
Last 5	09:58:04	1200.01	18.96	6.14	79.23	3.45	31.40	6.86	108.77
Last 5									
Variance 0			0.03	-0.03	2.26			0.02	5.45
Variance 1			-0.09	-0.00	1.36			0.04	4.57
Variance 2			0.15	0.01	1.32			0.03	3.92

Notes

SmartTroll disconnected. Final readings in part 2

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-26 10:31:47

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 41.76 ft

Pump placement from TOC 41.76 ft

Well Information:

Well ID GWA-17  
Well diameter 2 in  
Well Total Depth 46.76 ft  
Screen Length 10 ft  
Depth to Water 30.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4013925 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.8 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:18:16	300.03	18.74	6.14	79.03	4.23	31.37	6.91	91.41
Last 5	10:23:16	600.02	18.96	6.13	79.68	4.21	31.41	6.89	101.67
Last 5	10:28:16	900.01	18.73	6.12	78.93	3.53	31.38	6.88	110.46
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.22	-0.01	0.65			-0.02	10.26
Variance 2			-0.23	-0.01	-0.74			-0.01	8.79

Notes

Part 2 after smarttroll reconnected

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 12:14:36

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-1  
Well diameter 2 in  
Well Total Depth 38.72 ft  
Screen Length 10 ft  
Depth to Water 6.64 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.237293 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.44 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:57:32	300.03	17.82	6.39	158.54	1.89	6.97	5.43	88.12
Last 5	12:02:32	600.02	17.41	6.50	159.89	0.48	6.99	5.52	84.64
Last 5	12:07:32	900.02	17.07	6.53	158.91	0.62	7.00	5.52	83.65
Last 5	12:12:32	1200.02	17.24	6.54	157.66	0.39	7.01	5.44	83.62
Last 5									
Variance 0			-0.41	0.11	1.35			0.09	-3.48
Variance 1			-0.34	0.03	-0.98			-0.00	-0.99
Variance 2			0.18	0.01	-1.25			-0.08	-0.03

Notes

Sampled GWC-1 at 1210

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 13:07:53

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 54 ft

Pump placement from TOC 54 ft

Well Information:

Well ID GWC-2  
Well diameter 2 in  
Well Total Depth 58.74 ft  
Screen Length 10 ft  
Depth to Water 11.03 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.3310249 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 21.36 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:46:26	300.02	18.35	6.63	146.55	0.51	11.98	4.07	91.15
Last 5	12:51:26	600.02	17.94	6.49	148.32	0.56	12.39	4.06	90.99
Last 5	12:56:26	900.02	19.29	6.45	148.80	0.66	12.64	3.94	91.10
Last 5	13:01:26	1200.02	19.19	6.43	150.14	0.46	12.76	3.86	91.91
Last 5	13:06:26	1500.01	18.75	6.44	148.76	0.71	12.81	3.80	93.59
Variance 0			1.34	-0.04	0.48			-0.12	0.11
Variance 1			-0.10	-0.01	1.34			-0.08	0.81
Variance 2			-0.44	0.01	-1.38			-0.06	1.68

Notes

Sampled GWC-2 @ 1305

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 16:42:30

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 45 ft

Pump placement from TOC 45 ft

Well Information:

Well ID GWC-3  
Well diameter 2 in  
Well Total Depth 50.16 ft  
Screen Length 10 ft  
Depth to Water 28.14 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.415854 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3 in  
Total Volume Pumped 13.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:20:04	1499.99	17.83	6.03	97.95	6.96	28.39	5.62	390.53
Last 5	16:25:04	1800.98	17.83	6.02	98.01	5.61	28.41	5.60	388.64
Last 5	16:30:04	2100.97	17.83	6.04	98.27	4.84	28.41	5.57	388.54
Last 5	16:35:04	2400.96	17.86	6.04	98.29	4.65	28.42	5.56	380.41
Last 5	16:40:04	2700.95	17.83	6.02	98.46	4.09	28.39	5.55	378.63
Variance 0			0.00	0.02	0.26			-0.03	-0.10
Variance 1			0.03	-0.00	0.02			-0.01	-8.13
Variance 2			-0.03	-0.02	0.17			-0.02	-1.78

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 14:26:24

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 38.41 ft

Pump placement from TOC 38.41 ft

Well Information:

Well ID GWC-4  
Well diameter 2 in  
Well Total Depth 43.41 ft  
Screen Length 10 ft  
Depth to Water 28.60 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.3864401 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.08 in  
Total Volume Pumped 9.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:03:05	1800.00	17.99	6.33	148.92	13.66	29.43	4.47	127.64
Last 5	14:08:05	2100.00	17.98	6.33	149.16	12.39	29.44	4.53	126.99
Last 5	14:13:05	2399.99	18.00	6.33	149.34	10.76	29.44	4.59	126.50
Last 5	14:18:05	2699.99	18.02	6.33	149.32	6.74	29.44	4.60	126.23
Last 5	14:23:05	2999.98	18.12	6.34	149.21	--	--	4.62	125.44
Variance 0			0.01	-0.00	0.18			0.06	-0.49
Variance 1			0.03	-0.00	-0.01			0.01	-0.26
Variance 2			0.09	0.01	-0.11			0.02	-0.80

Notes

FD-1(LF) sampled here

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-27 09:52:03

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-5  
Well diameter 2 in  
Well Total Depth 34.16 ft  
Screen Length 10 ft  
Depth to Water 16.98 ft

Pumping Information:

Final Pumping Rate 140 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.8 in  
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:34:12	600.05	16.63	5.77	913.90	5.75	17.12	3.26	329.43
Last 5	09:39:12	900.00	16.67	5.78	913.08	2.69	17.13	3.23	350.27
Last 5	09:44:12	1199.99	16.83	5.78	916.16	2.41	17.12	3.23	385.87
Last 5	09:49:12	1499.99	16.94	5.78	913.48	1.85	17.13	3.17	435.95
Last 5									
Variance 0			0.04	0.01	-0.82			-0.03	20.85
Variance 1			0.16	0.00	3.08			-0.00	35.60
Variance 2			0.11	0.00	-2.69			-0.05	50.07

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:19:47

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth 48.5 ft  
Screen Length 10 ft  
Depth to Water 35.57 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.4069272 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.6 in  
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:00:03	300.05	18.81	6.25	210.16	6.25	35.62	6.41	685.28
Last 5	15:05:03	600.01	18.59	6.26	202.86	4.22	35.59	6.38	681.50
Last 5	15:10:03	900.00	18.46	6.26	198.86	4.02	35.60	6.39	672.27
Last 5	15:15:03	1199.99	18.35	6.25	199.89	4.63	35.62	6.41	661.27
Last 5									
Variance 0			-0.22	0.01	-7.30			-0.03	-3.78
Variance 1			-0.13	0.00	-3.99			0.01	-9.24
Variance 2			-0.10	-0.01	1.02			0.02	-11.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 11:07:14

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 53 ft

Pump placement from TOC 53 ft

Well Information:

Well ID GWC-7  
Well diameter 2 in  
Well Total Depth 58.72 ft  
Screen Length 10 ft  
Depth to Water 40.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4515614 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.16 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:50:30	300.06	17.59	6.43	158.68	5.86	40.68	6.78	93.28
Last 5	10:55:30	600.02	17.77	6.39	158.93	5.29	40.72	6.16	84.42
Last 5	11:00:30	900.02	17.65	6.38	158.84	3.85	40.72	6.10	82.92
Last 5	11:05:30	1200.02	17.74	6.38	158.86	3.66	40.72	6.08	82.92
Last 5									
Variance 0			0.17	-0.04	0.25			-0.63	-8.87
Variance 1			-0.11	-0.01	-0.09			-0.06	-1.50
Variance 2			0.09	-0.00	0.02			-0.02	-0.00

Notes

Sampled GWC-7 at 1105. FB-2(LF) here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 10:18:31

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 42.50 ft

Pump placement from TOC 42.50 ft

Well Information:

Well ID GWC-8A  
Well diameter 2 in  
Well Total Depth 47.50 ft  
Screen Length 10 ft  
Depth to Water 22.12 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.2796955 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.9 in  
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:56:15	300.06	18.50	6.69	499.21	0.25	22.36	0.43	60.04
Last 5	10:01:15	600.02	18.39	6.68	496.85	0.25	22.37	0.35	53.73
Last 5	10:06:15	900.01	18.52	6.68	497.63	0.21	22.36	0.32	48.30
Last 5	10:11:15	1200.01	18.70	6.68	495.06	0.18	22.36	0.31	44.89
Last 5	10:16:15	1500.00	18.74	6.69	493.51	0.33	22.36	0.28	44.34
Variance 0			0.13	0.00	0.79			-0.04	-5.43
Variance 1			0.18	0.00	-2.57			-0.00	-3.40
Variance 2			0.05	0.01	-1.55			-0.03	-0.56

Notes

FD-2(LF) also sampled here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 12:31:13

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 15 ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWC-9  
Well diameter 2 in  
Well Total Depth 20.25 ft  
Screen Length 10 ft  
Depth to Water 6.65 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1569514 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6.48 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:14:02	300.05	15.86	6.77	209.84	2.18	7.12	2.63	815.73
Last 5	12:19:02	600.01	15.73	6.72	211.33	2.14	7.20	2.45	859.47
Last 5	12:24:02	900.00	15.69	6.70	211.57	1.16	7.20	2.34	881.81
Last 5	12:29:02	1199.99	15.76	6.70	211.00	1.22	7.19	2.28	901.07
Last 5									
Variance 0			-0.13	-0.04	1.50			-0.18	43.74
Variance 1			-0.04	-0.03	0.24			-0.11	22.34
Variance 2			0.08	-0.00	-0.58			-0.06	19.26

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-27 11:45:48

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 35 ft

Pump placement from TOC 35 ft

Well Information:

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 40.63 ft  
Screen Length 10 ft  
Depth to Water 9.71 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.2462198 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.64 in  
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:27:57	300.05	16.76	6.57	209.13	2.55	9.00	3.95	726.04
Last 5	11:32:57	600.01	16.98	6.55	209.11	1.57	9.91	3.76	745.48
Last 5	11:37:57	900.00	17.16	6.54	206.09	1.09	9.92	3.56	762.10
Last 5	11:42:57	1199.99	17.34	6.53	203.87	0.99	9.93	3.42	776.94
Last 5									
Variance 0			0.22	-0.02	-0.02			-0.18	19.44
Variance 1			0.18	-0.01	-3.02			-0.21	16.62
Variance 2			0.18	-0.01	-2.21			-0.13	14.83

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 10:54:02

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-11  
Well diameter 2 in  
Well Total Depth 34.59 ft  
Screen Length 10 ft  
Depth to Water 16.8 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.2239027 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.36 in  
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:35:19	300.06	17.08	6.25	146.38	0.64	16.82	1.27	645.47
Last 5	10:40:19	600.01	17.12	6.23	145.31	0.56	16.83	1.16	668.44
Last 5	10:45:19	900.00	17.11	6.22	146.14	1.02	16.82	1.12	691.90
Last 5	10:50:19	1200.00	17.14	6.22	145.50	0.86	16.83	1.16	709.47
Last 5									
Variance 0			0.04	-0.01	-1.07			-0.11	22.98
Variance 1			-0.01	-0.01	0.83			-0.04	23.45
Variance 2			0.03	0.00	-0.64			0.05	17.57

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:53:19

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-12  
Well diameter 2 in  
Well Total Depth 37.82 ft  
Screen Length 10 ft  
Depth to Water 23.05 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.237293 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.48 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:36:16	300.02	18.22	5.53	21.41	0.47	23.32	4.05	91.75
Last 5	15:41:16	600.02	17.68	5.27	21.56	0.90	23.34	3.91	92.97
Last 5	15:46:16	900.02	17.62	5.25	21.57	0.68	23.34	4.00	94.63
Last 5	15:51:16	1200.02	17.56	5.25	21.82	0.57	23.34	4.08	95.92
Last 5									
Variance 0			-0.54	-0.26	0.15			-0.13	1.22
Variance 1			-0.07	-0.02	0.01			0.09	1.66
Variance 2			-0.06	0.00	0.25			0.07	1.29

Notes

Sampled GWC-12 at 1550

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:02:04

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 39 ft

Pump placement from TOC 39 ft

Well Information:

Well ID GWC-13  
Well diameter 2 in  
Well Total Depth 44.2 ft  
Screen Length 10 ft  
Depth to Water 28.61 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.2640735 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.08 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Stabilization									
Last 5	14:40:12	300.03	20.84	6.04	64.81	0.81	28.70	4.60	102.60
Last 5	14:45:12	600.02	19.37	5.89	67.36	0.78	28.70	4.72	97.22
Last 5	14:50:12	900.03	19.24	5.89	67.39	1.16	28.70	4.55	97.12
Last 5	14:55:12	1200.02	18.93	5.89	68.04	0.82	28.70	4.54	97.80
Last 5	15:00:14	1502.02	18.52	5.89	67.74	1.53	28.70	4.77	98.72
Variance 0			-0.13	-0.00	0.03			-0.16	-0.11
Variance 1			-0.31	0.00	0.64			-0.01	0.68
Variance 2			-0.40	-0.00	-0.30			0.23	0.92

Notes

Sampled GWC-13 at 1500

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 13:56:19

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-14  
Well diameter 2 in  
Well Total Depth 27.5 ft  
Screen Length 10 ft  
Depth to Water 11.84 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.96 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:39:34	300.03	18.01	5.77	62.08	0.39	11.92	1.81	78.54
Last 5	13:44:34	600.02	17.66	5.65	62.66	0.58	11.92	1.75	78.87
Last 5	13:49:34	900.02	17.72	5.64	62.89	0.54	11.92	1.70	79.76
Last 5	13:54:34	1200.02	17.67	5.63	63.30	0.49	11.92	1.66	80.94
Last 5									
Variance 0			-0.35	-0.12	0.58			-0.06	0.33
Variance 1			0.06	-0.01	0.24			-0.05	0.89
Variance 2			-0.05	-0.01	0.41			-0.04	1.18

Notes

Sampled GWC-14 at 1355

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-26 11:52:31

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 66 ft

Pump placement from TOC 66 ft

Well Information:

Well ID GWC-18  
Well diameter 2 in  
Well Total Depth 71.25 ft  
Screen Length 10 ft  
Depth to Water 33.2 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.5095859 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6.48 in  
Total Volume Pumped 8.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:30:07	2099.97	18.52	6.37	128.48	6.26	33.75	6.11	468.81
Last 5	11:35:07	2399.96	18.41	6.38	128.49	5.06	33.76	6.13	500.17
Last 5	11:40:07	2699.95	18.38	6.37	128.02	4.13	33.73	6.14	528.90
Last 5	11:45:20	3012.96	18.95	6.37	127.82	3.84	33.73	6.06	561.37
Last 5	11:50:20	3312.94	18.95	6.38	127.31	2.85	33.74	6.06	586.88
Variance 0			-0.04	-0.00	-0.47			0.01	28.73
Variance 1			0.57	-0.01	-0.20			-0.08	32.48
Variance 2			0.00	0.01	-0.52			-0.01	25.51

Notes

FB-1

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 10:03:14

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth 62.75 ft  
Screen Length 10 ft  
Depth to Water 31.8 ft

Pumping Information:

Final Pumping Rate 120 mL/min  
Total System Volume 0.4738785 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.8 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:40:32	300.09	17.65	6.43	148.38	1.93	32.35	7.34	278.46
Last 5	09:45:32	600.01	17.57	6.35	146.62	2.00	32.46	7.30	294.62
Last 5	09:50:32	900.00	17.90	6.34	146.56	1.69	32.45	7.17	304.79
Last 5	09:55:32	1199.99	17.78	6.33	146.67	1.53	32.50	7.08	314.17
Last 5	10:00:33	1501.99	18.12	6.35	146.78	1.21	32.45	6.63	320.32
Variance 0			0.34	-0.01	-0.06			-0.13	10.17
Variance 1			-0.12	-0.01	0.11			-0.09	9.39
Variance 2			0.34	0.01	0.11			-0.45	6.14

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:29:19

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 67.70 ft

Pump placement from TOC 67.70 ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 72.70 ft  
Screen Length 10 ft  
Depth to Water 37.54 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5171737 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.32 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:07:51	300.03	18.79	6.58	118.60	19.73	37.90	6.85	122.97
Last 5	15:12:51	600.02	18.52	6.54	118.77	13.72	37.90	6.97	122.39
Last 5	15:17:51	900.01	18.37	6.54	118.84	6.63	37.87	7.09	121.46
Last 5	15:22:51	1200.01	18.26	6.53	118.88	4.43	37.90	7.17	121.07
Last 5	15:27:51	1500.01	18.21	6.52	118.83	3.70	37.90	7.23	120.68
Variance 0			-0.15	-0.01	0.07			0.12	-0.93
Variance 1			-0.11	-0.01	0.04			0.09	-0.40
Variance 2			-0.05	-0.00	-0.06			0.06	-0.39

Notes

Grab Samples

**FIELD DATA FORMS**

# PAC ASH CELL

Product Name: Low-Flow System

Date: 2019-03-27 13:36:26

Project Information:

Operator Name J Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWA-21  
Well diameter 2 in  
Well Total Depth 20.6 ft  
Screen Length 10 ft  
Depth to Water 3.01 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.56 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:23:57	300.02	17.21	5.98	144.67	1.41	3.35	2.41	952.32
Last 5	13:28:57	600.01	17.38	5.97	143.67	1.17	3.37	2.40	964.55
Last 5	13:33:57	900.00	17.47	5.97	142.86	1.08	3.39	2.43	969.51
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.18	-0.01	-1.00			-0.01	12.23
Variance 2			0.09	0.00	-0.81			0.03	4.96

Notes

FD-1 PA

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-27 14:31:46

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 37 ft

Pump placement from TOC 37 ft

Well Information:

Well ID GWA-22  
Well diameter 2 in  
Well Total Depth 42.5 ft  
Screen Length 10 ft  
Depth to Water 21.54 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.2551467 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.28 in  
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:14:08	300.02	19.70	6.03	97.28	3.34	21.95	4.48	988.43
Last 5	14:19:08	600.01	19.60	6.03	97.70	2.26	21.98	4.40	983.02
Last 5	14:24:08	900.00	19.58	6.03	97.99	1.86	21.98	4.38	971.17
Last 5	14:29:08	1200.00	19.57	6.04	97.90	1.79	21.98	4.36	958.57
Last 5									
Variance 0			-0.11	0.00	0.42			-0.07	-5.41
Variance 1			-0.01	0.00	0.28			-0.02	-11.85
Variance 2			-0.01	0.00	-0.09			-0.02	-12.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 11:33:56

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 31 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWA-45  
Well diameter 2 in  
Well Total Depth 36.0 ft  
Screen Length 10 ft  
Depth to Water 12.99 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 8.04 in  
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:10:22	600.02	17.22	6.58	416.85	6.38	13.66	1.58	48.53
Last 5	11:15:22	900.01	17.13	6.46	418.29	3.14	13.66	1.48	50.20
Last 5	11:20:22	1200.01	17.25	6.38	417.15	4.04	13.66	1.34	52.22
Last 5	11:25:22	1500.00	17.31	6.34	418.08	2.87	13.66	1.30	54.21
Last 5	11:30:22	1800.00	17.40	6.31	415.86	2.80	13.66	1.25	56.46
Variance 0			0.12	-0.08	-1.14			-0.14	2.03
Variance 1			0.06	-0.05	0.94			-0.04	1.98
Variance 2			0.09	-0.03	-2.22			-0.05	2.25

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 15:01:16

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID GWA-46  
Well diameter 2 in  
Well Total Depth 47 ft  
Screen Length 10 ft  
Depth to Water 30.26 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4024638 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 8.5 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:39:33	300.03	19.32	6.10	76.84	5.31	30.92	2.50	69.47
Last 5	14:44:32	600.02	19.36	6.04	76.94	4.70	30.93	2.43	73.13
Last 5	14:49:32	900.02	19.43	6.00	76.90	3.94	30.95	2.41	77.29
Last 5	14:54:32	1200.01	19.21	5.97	76.90	2.65	30.97	2.39	80.86
Last 5	14:59:32	1500.01	19.23	5.95	76.73	2.65	30.97	2.37	84.35
Variance 0			0.07	-0.04	-0.04			-0.02	4.17
Variance 1			-0.22	-0.03	-0.01			-0.02	3.56
Variance 2			0.02	-0.02	-0.17			-0.01	3.49

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 14:06:12

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 51 ft

Pump placement from TOC 51 ft

Well Information:

Well ID GWA-47  
Well diameter 2 in  
Well Total Depth 56.55 ft  
Screen Length 10 ft  
Depth to Water 38.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4426346 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 17.64 in  
Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:43:21	5102.02	18.81	6.52	122.82	7.03	40.32	3.66	541.71
Last 5	13:48:21	5402.02	18.79	6.52	123.03	6.79	40.32	3.65	557.37
Last 5	13:53:21	5702.02	18.66	6.53	122.68	5.84	40.32	3.66	571.87
Last 5	13:58:21	6002.02	18.79	6.53	122.78	5.17	40.32	3.64	589.07
Last 5	14:03:36	6317.02	18.84	6.52	122.38	4.92	40.32	3.63	602.17
Variance 0			-0.13	0.00	-0.35			0.00	14.50
Variance 1			0.13	-0.00	0.10			-0.02	17.20
Variance 2			0.04	-0.00	-0.40			-0.01	13.10

Notes

Sampled GWA-47 at 1405. FB-1 (PA) here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 13:55:12

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 68.92 ft

Pump placement from TOC 68.92 ft

Well Information:

Well ID GWA-48  
Well diameter 2 in  
Well Total Depth 73.92 ft  
Screen Length 10 ft  
Depth to Water 36.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.7926192 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 36.48 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:32:39	300.03	18.63	7.07	133.00	0.91	39.61	4.34	59.70
Last 5	13:37:39	600.02	19.14	6.95	133.07	0.31	39.30	4.68	60.74
Last 5	13:42:39	900.02	19.05	6.91	133.09	1.89	39.15	4.45	60.72
Last 5	13:47:39	1200.01	19.14	6.87	133.06	1.47	39.15	4.63	61.83
Last 5	13:52:39	1500.00	19.16	6.86	133.13	1.34	39.15	4.73	61.03
Variance 0			-0.09	-0.04	0.02			-0.23	-0.02
Variance 1			0.09	-0.04	-0.03			0.18	1.11
Variance 2			0.02	-0.01	0.07			0.10	-0.81

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-27 12:34:13

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 465016  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 36.0 ft

Pump placement from TOC 36.0 ft

Well Information:

Well ID GWA-49  
Well diameter 2 in  
Well Total Depth 41.0 ft  
Screen Length 10 ft  
Depth to Water 8.76 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2506832 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 11.64 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:11:35	300.03	18.82	6.92	156.74	3.04	9.35	7.00	48.82
Last 5	12:16:35	600.02	18.43	6.93	156.72	1.17	9.42	6.99	48.83
Last 5	12:21:35	900.01	18.53	6.92	156.94	1.22	9.44	6.97	49.90
Last 5	12:26:35	1200.01	18.48	6.91	156.54	1.31	9.43	6.95	51.13
Last 5	12:31:35	1500.00	18.52	6.91	157.29	0.72	9.43	6.95	52.37
Variance 0			0.10	-0.02	0.22			-0.02	1.07
Variance 1			-0.05	-0.00	-0.41			-0.02	1.23
Variance 2			0.03	-0.01	0.75			0.00	1.24

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 10:35:36

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 22.0 ft

Pump placement from TOC 22.0 ft

Well Information:

Well ID GWC-29  
Well diameter 2 in  
Well Total Depth 27.00 ft  
Screen Length 10 ft  
Depth to Water 5.36 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2 in  
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:14:04	300.03	15.35	5.93	138.98	0.29	5.52	0.30	110.62
Last 5	10:19:04	600.02	15.30	5.94	139.86	0.49	5.52	0.25	111.36
Last 5	10:24:04	900.02	15.49	5.94	139.46	0.47	5.53	0.23	113.66
Last 5	10:29:04	1200.02	15.62	5.95	139.86	0.53	5.53	0.22	116.82
Last 5	10:34:04	1500.02	15.57	5.95	140.04	0.73	5.53	0.21	120.36
Variance 0			0.18	0.01	-0.40			-0.02	2.30
Variance 1			0.13	0.00	0.40			-0.01	3.16
Variance 2			-0.04	0.00	0.18			-0.02	3.53

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 09:45:37

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type Polyethylene  
Tubing Diameter .170 in  
Tubing Length 31.0 ft

Pump placement from TOC 31.0 ft

Well Information:

Well ID GWC-50  
Well diameter 2 in  
Well Total Depth 36.30 ft  
Screen Length 10 ft  
Depth to Water 8.30 ft

Pumping Information:

Final Pumping Rate 190 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:22:44	300.06	13.24	5.54	89.44	0.57	8.63	0.62	110.44
Last 5	09:27:44	600.02	14.05	5.64	85.66	0.44	8.65	0.47	105.04
Last 5	09:32:44	900.02	14.34	5.68	85.00	0.84	8.65	0.41	101.74
Last 5	09:37:44	1200.02	14.85	5.69	84.49	1.93	8.65	0.38	100.50
Last 5	09:42:44	1500.02	15.05	5.71	84.36	0.74	8.65	0.39	99.57
Variance 0			0.28	0.04	-0.65			-0.06	-3.30
Variance 1			0.52	0.01	-0.51			-0.03	-1.24
Variance 2			0.20	0.02	-0.13			0.00	-0.92

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 15:51:55

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 20 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWC-51  
Well diameter 2 in  
Well Total Depth 26.8 ft  
Screen Length 10 ft  
Depth to Water 8.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1792685 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:29:25	900.05	20.10	6.00	106.57	7.40	8.61	0.19	952.03
Last 5	15:34:25	1200.00	20.11	5.99	106.90	6.32	8.61	0.19	939.25
Last 5	15:39:25	1499.99	20.06	5.95	105.17	4.47	8.61	0.14	896.83
Last 5	15:44:25	1799.98	19.84	5.94	104.83	4.79	8.61	0.13	782.12
Last 5	15:49:25	2099.97	19.77	5.94	104.53	3.81	8.61	0.14	637.73
Variance 0			-0.05	-0.04	-1.73			-0.05	-42.42
Variance 1			-0.22	-0.01	-0.34			-0.01	-114.71
Variance 2			-0.08	0.00	-0.30			0.01	-144.39

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 10:45:56

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 27.5 ft

Pump placement from TOC 27.5 ft

Well Information:

Well ID GWC-52  
Well diameter 2 in  
Well Total Depth 32.8 ft  
Screen Length 10 ft  
Depth to Water 8.95 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.2127441 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.76 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:23:53	300.04	17.13	6.71	224.34	1.04	9.17	1.12	261.76
Last 5	10:28:53	600.02	17.49	6.70	224.71	0.89	9.19	0.47	227.33
Last 5	10:33:53	900.00	17.65	6.70	224.30	0.80	9.18	0.25	205.64
Last 5	10:38:53	1200.00	17.84	6.71	224.75	0.69	9.18	0.17	193.60
Last 5	10:43:53	1499.99	18.01	6.71	223.62	0.83	9.18	0.15	188.76
Variance 0			0.16	-0.00	-0.41			-0.22	-21.69
Variance 1			0.19	0.01	0.45			-0.08	-12.04
Variance 2			0.17	0.00	-1.12			-0.02	-4.84

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2019-03-28 09:51:09

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 364455  
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 27.5 ft

Pump placement from TOC 27.5 ft

Well Information:

Well ID GWC-53  
Well diameter 2 in  
Well Total Depth 32.8 ft  
Screen Length 10 ft  
Depth to Water 9.44 ft

Pumping Information:

Final Pumping Rate 180 mL/min  
Total System Volume 0.2127441 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.92 in  
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:28:13	300.03	13.98	6.18	508.42	0.64	9.83	0.56	284.36
Last 5	09:33:13	600.01	14.39	5.78	503.55	0.77	9.84	0.48	272.78
Last 5	09:38:13	900.01	14.56	5.71	504.18	0.88	9.84	0.43	268.84
Last 5	09:43:13	1200.00	14.73	5.67	506.99	0.71	9.85	0.36	264.63
Last 5	09:48:13	1499.99	14.83	5.67	503.88	0.61	9.85	0.36	261.71
Variance 0			0.17	-0.07	0.63			-0.05	-3.94
Variance 1			0.17	-0.04	2.81			-0.07	-4.21
Variance 2			0.11	-0.00	-3.11			-0.00	-2.92

Notes

FD-2 pa

Grab Samples

**APPENDIX A**

# DATA VALIDATION SUMMARIES

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates Inc. Project Manager: Dawn Prell  
 Project Name: SCS Plant Scherer Project Number: 166235018  
 Validator: Carolyn Powrozek Validation Date: 04/30/2019  
 Reviewed by: Julie Lehrman Review Date: 05/16/2019  
 Laboratory: TestAmerica Pittsburgh SDG #: 180-88203-1  
 Analytical Method (type and no.): Total Metals via USEPA SW-846 Method 6020; Total Mercury via USEPA SW-846 Method 7470A; Anions (Chloride, Fluoride, Sulfate) via USEPA 300.0; Total Dissolved Solids (TDS) via SM 2540C  
 Matrix:  Air  Soil/Sed.  Water  Waste  Other \_\_\_\_\_

**Work Plan or QAPP reference:** Not applicable

**Applicable Data Validation Guidance:** Southern Company Services, Inc. Standard Operating Procedure for Level 2A Verification of Coal Combustion Residuals Data (November 2017)

### Field/COC Information

	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grab _____
e) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FB, EB, FD _____
f) Field parameters collected (note types)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
g) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
h) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
i) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
j) Was the sample cooler temperature within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

### Laboratory Case Narrative

a) Does the laboratory narrative indicate deficiencies?    \_\_\_\_\_

Note Deficiencies:

- LCS or LCSD is outside acceptance limits
- MS, MSD: The analyte present in the original sample is greater than 4 times the MS concentration; therefore, control limits are not applicable
- MS and/or MSD recovery is outside acceptance limits

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 1 _____
f) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
b) Were analytes detected in the field blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
c) Were analytes detected in the equipment blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
e) Were analytes detected in the storage blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Laboratory Control Sample	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were the proper compounds included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Per SOP, See Note 3 _____
Matrix Spike/Matrix Spike Duplicate	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
b) Was MSD accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
c) Were MS/MSD precision criteria met (20%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Table 1 _____
b) Were field dup. precision criteria met (20%)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 5 _____
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	180-88290-8 DU = FD-2(LF) _____
d) Were lab dup. precision criteria met (%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
ICP Serial Dilution (SD)	YES	NO	NA	COMMENTS
a) Was a ICP SD analyzed once per SDG?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Data not provided in Level II report
b) Was the ICP SD criteria met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lab narrative did not identify SD deficiencies

### Comments/Notes:

1. Metals via method 6020 were analyzed at a dilution factor of 5 to bring sample concentrations within the instrument calibration range. The guidelines do not require qualification based on dilution, but the end user is alerted that the sensitivity of non-detect results should be considered as part of determining data usability. Since the reporting limits were not raised, qualifiers are not necessary for this SDG.
2. Target analytes were detected in the equipment and field blanks as shown in the table below. When contamination was found in more than one blank associated with a given sample, the blank with the highest concentration was used to qualify the results.

Following the Validation SOP for inorganic parameters, when associated detected sample results were below 5x the blank concentration and below the RL, the results were qualified as non-detect (U) and the MDL was raised to the sample result. When the detected sample results were below 5x the blank concentration and above the RL, the results were qualified as non-detect (U) and both the MDL and RL were raised to the sample result. When the associated sample results were greater than 5x the blank concentration, qualification was not required.

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

SDG	Sample Name	Blank Type	Method	Analyte	Blank Result	RL	Units	Dilution
180-88203-1	EB-1 (LF)	Equipment	6020	Vanadium	0.0025	0.0025	mg/L	5
180-88203-1	EB-2 (LF)	Equipment	6020	Vanadium	0.0024 J	0.0025	mg/L	5
180-88203-1	FB-1 (LF)	Field	6020	Vanadium	0.0026	0.0025	mg/L	5
180-88203-1	FB-2 (LF)	Field	6020	Vanadium	<b>0.0033</b>	0.0025	mg/L	5

3. Lab noted LCS recoveries were outside QC criteria. However, following the SOP, the recoveries were within QC criteria, as shown in the table below. Therefore, no qualifications were necessary.

Sample Name	Parameter	Analyte	LCS Recovery (%)	Lab Recovery Criteria (%)	SOP Recovery Criteria (%)
400-435839/2-A	Metals	Silver	122	80-120	70-130

4. The laboratory flagged certain matrix spike recoveries in the metals analysis. In addition, MS/MSD recoveries were outside QC criteria, as shown in the table below for project-specific samples only. Following the Validation SOP, any qualifications resulting from MS/MSD deficiencies were applied to samples analyzed in the same batch. When the initial sample result exceeded 4x the added spike concentration, no qualification was required. When MS/MSD recoveries are above the upper limits, then detected sample results were J+ qualified. No qualification necessary for "non-detect results".

Parent Sample Name	Method	Analyte	MS/MSD Recovery (%)	RPD (%)	QC Limits (%)
180-88290-1 (GWC-5)	6020	Boron	<b>134</b> / 125	2	75-125 / 20
180-88290-1 (GWC-5)	6020	Calcium*	116 / <b>370</b>	14	75-125 / 20

\*Initial sample concentration exceeded 4x the matrix spike added

5. Field duplicate RPDs were above the QC criteria, as shown in the table below. RPDs were calculated for non-detect results using reporting limits. Following Guidelines for inorganics, when the both the primary and field duplicate results were greater than 5x the RL and the RPD was greater than QC criteria, associated results were qualified as estimated (J). **When either sample result was less than 5x the RL and the difference between the results was less than the RL, qualification was not required.** When the difference between the results was greater than the RL, associated results were qualified as estimated (J/UJ).

Primary/FD Sample ID	Analyte	RPD (%)	Primary / FD Result	Primary/Field Duplicate RL	Units	Difference > RL (Yes/No)	Qualifier (Yes/No)
GWC-4 /FD-1 (LF)	Cobalt	54	0.00096 / 0.00055	0.0025	mg/L	No	No
GWC-4 /FD-1 (LF)	Copper	47	0.0039 / 0.0024	0.0025	mg/L	No	No
GWC-4 /FD-1 (LF)	Nickel	40	0.0036 / 0.0024	0.0025	mg/L	No	No
GWC-8A /FD-2 (LF)	Arsenic	36	0.0012 / 0.00083	0.0013	mg/L	No	No

Data Qualification: See Table 1.



TABLE 1

**Qualifier Summary Table  
SCS Plant Scherer**

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>New MDL/MDC</i>	<i>Qualifier</i>	<i>Reason</i>
180-88203-1	GWA-16	Vanadium	-	0.007	0.007	U	field and equipment blank contamination
180-88203-1	GWA-17	Vanadium	-	0.0051	0.0051	U	field and equipment blank contamination
180-88203-1	GWC-2	Vanadium	-	0.016	0.016	U	field and equipment blank contamination
180-88203-1	GWC-3	Vanadium	-	0.0076	0.0076	U	field and equipment blank contamination
180-88203-1	GWC-4	Vanadium	-	0.011	0.011	U	field and equipment blank contamination
180-88203-1	GWC-6	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	GWC-12	Vanadium	-	0.0029	0.0029	U	field and equipment blank contamination
180-88203-1	GWC-13	Vanadium	-	0.0041	0.0041	U	field and equipment blank contamination
180-88203-1	GWC-14	Vanadium	-	0.0034	0.0034	U	field and equipment blank contamination
180-88203-1	GWC-18	Vanadium	-	0.0094	0.0094	U	field and equipment blank contamination
180-88203-1	GWC-19	Vanadium	-	0.0094	0.0094	U	field and equipment blank contamination
180-88203-1	FD-1 (LF)	Vanadium	-	0.01	0.01	U	field and equipment blank contamination
180-88203-1	GWC-5	Vanadium	-	-	0.0024	U	field and equipment blank contamination
180-88203-1	GWC-7	Vanadium	-	0.013	0.013	U	field and equipment blank contamination
180-88203-1	GWC-8A	Vanadium	-	0.003	0.003	U	field and equipment blank contamination
180-88203-1	GWC-10	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	GWC-11	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	FD-2 (LF)	Vanadium	-	0.0035	0.0035	U	field and equipment blank contamination
180-88203-1	GWC-5	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	GWC-8A	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	GWC-9	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	FD-2 (LF)	Boron	-	-	-	J+	MS/MSD outside criteria

**Abbreviations:**

MDC : Minimum Detectable Concentration  
MDL: Method Detection Limit  
MS/MSD: Matrix Spike/Matrix Spike Duplicate  
RL : Reporting limit  
SDG : Sample delivery group

**Qualifiers:**

J+ : Estimated result, biased high  
U : Non-detect result

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates Inc. Project Manager: Dawn Prell  
 Project Name: SCS Plant Scherer Project Number: 166235018  
 Validator: Carolyn Powrozek Validation Date: 04/30/2019  
 Reviewed by: Julie Lehrman Review Date: 05/16/2019  
 Laboratory: TestAmerica Pittsburgh SDG #: 180-88291-1  
 Analytical Method (type and no.): Total Metals via USEPA SW-846 Method 6020; Total Mercury via USEPA SW-846 Method 7470A; Anions (Chloride, Fluoride, Sulfate) via USEPA 300.0; Total Dissolved Solids (TDS) via SM 2540C  
 Matrix:  Air  Soil/Sed.  Water  Waste  Other \_\_\_\_\_

**Work Plan or QAPP reference:** Not applicable

**Applicable Data Validation Guidance:** Southern Company Services, Inc. Standard Operating Procedure for Level 2A Verification of Coal Combustion Residuals Data (November 2017)

**Field/COC Information**

	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grab _____
e) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FB, EB, FD _____
f) Field parameters collected (note types)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
g) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
h) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
i) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
j) Was the sample cooler temperature within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Laboratory Case Narrative**

a) Does the laboratory narrative indicate deficiencies?    \_\_\_\_\_

Note Deficiencies:

- MS, MSD: The analyte present in the original sample is greater than 4 times the MS concentration; therefore, control limits are not applicable (4)
- Compound was found in the blank and sample (B)

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

d) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 1 _____
f) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<b>Blanks</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were analytes detected in the method blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
b) Were analytes detected in the field blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
c) Were analytes detected in the equipment blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
e) Were analytes detected in the storage blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
<b>Laboratory Control Sample</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were the proper compounds included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Matrix Spike/Matrix Spike Duplicate</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Was MS accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 3 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
b) Was MSD accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 3 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
c) Were MS/MSD precision criteria met (20%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>Duplicates</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Table 1 _____
b) Were field dup. precision criteria met (20%)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4 _____
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
d) Were lab dup. precision criteria met (%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
<b>ICP Serial Dilution (SD)</b>	<b>YES</b>	<b>NO</b>	<b>NA</b>	<b>COMMENTS</b>
a) Was a ICP SD analyzed once per SDG?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Data not provided in Level II report
b) Was the ICP SD criteria met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lab narrative did not identify SD deficiencies

### Comments/Notes:

- Metals via method 6020 were analyzed at a dilution factor of 5 to bring sample concentrations within the instrument calibration range. The guidelines do not require qualification based on dilution, but the end user is alerted that the sensitivity of non-detect results should be considered as part of determining data usability. Since the reporting limits were not raised, qualifiers are not necessary for this SDG.
- Target analytes were detected in the equipment and field blanks as shown in the table below. When contamination was found in more than one blank associated with a given sample, the blank with the highest concentration was used to qualify the results.

Following the Validation SOP for inorganic parameters, when associated detected sample results were below 5x the blank concentration and below the RL, the results were qualified as non-detect (U) and the MDL was raised to the sample result. When the detected sample results were below 5x the blank concentration and above the RL, the results were qualified as non-detect

## QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

(U) and both the MDL and RL were raised to the sample result. When the associated sample results were greater than 5x the blank concentration, qualification was not required.

SDG	Sample Name	Blank Type	Method	Analyte	Blank Result	RL	Units	Dilution
180-88291-1	MB400-435792/1-A^5	Method	6020	Vanadium	<b>0.00311</b>	0.0025	mg/L	5
180-88291-1	FB-1 (PA)	Field	6020	Vanadium	<b>0.0036</b>	0.0025	mg/L	5
180-88291-1	FB-2 (PA)	Field	6020	Vanadium	0.0024	0.0025	mg/L	5
180-88291-1	EB-2 (PA)	Equipment	6020	Vanadium	0.0034	0.0025	mg/L	5

3. The laboratory flagged certain matrix spike recoveries in the metals analysis as not meeting QC limits. Recoveries outside QC criteria are shown in the table below for project-specific samples. Following the Validation SOP, any qualifications resulting from MS/MSD deficiencies were applied to samples analyzed in the same batch. When the initial sample result exceeded 4x the added spike concentration, no qualification was required.

Parent Sample Name	Method	Analyte	MS/MSD Recovery (%)	RPD (%)	QC Limits (%)
180-88348-2 (GWC-53)	6020	Sulfate*	<b>94 / 35</b>	8	80-120 / 20

\*Initial sample concentration exceeded 4x the matrix spike added

4. Field duplicate RPDs were above the QC criteria, as shown in the table below. RPDs were calculated for non-detect results using reporting limits. Following Guidelines for inorganics, when the both the primary and field duplicate results were greater than 5x the RL and the RPD was greater than QC criteria, associated results were qualified as estimated (J). **When either sample result was less than 5x the RL and the difference between the results was less than the RL, qualification was not required.** When the difference between the results was greater than the RL, associated results were qualified as estimated (J/UJ).

Primary/FD Sample ID	Analyte	RPD (%)	Primary / FD Result	Primary/Field Duplicate RL	Units	Difference > RL (Yes/No)	Qualifier (Yes/No)
GWA-21 /FD-1 (PA)	Fluoride	35	0.0035 J / 0.05 J	0.2	mg/L	No	<b>No</b>
GWA-21 /FD-1 (PA)	Sulfate	30	0.81 J / 1.1	1	mg/L	No	<b>No</b>
GWC-53 /FD-2 (PA)	Vanadium	34	0.0041 / 0.0029	0.0025	mg/L	No	<b>No</b>

**Data Qualification:** See Table 1.

**Definitions:**

SDG: Sample Delivery Group

COC: Chain of Custody

LCS: Laboratory Control Sample

MS/MSD: Matrix Spike/Matrix Spike Duplicate

MDL: Method Detection Limit

%R: Percent Recovery

QC: Quality Control

QAPP: Quality Assurance Project Plan

QC: Quality Control

RPD: Relative Percent Difference

CRDL: Contract Required Quantitation Limit

CRQL: Reporting Limit

TABLE 1

**Qualifier Summary Table  
SCS Plant Scherer**

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>New MDL/MDC</i>	<i>Qualifier</i>	<i>Reason</i>
180-88291-1	GWA-45	Vanadium	-	-	0.0023	U	method, field and equipment blank contamination
180-88291-1	GWA-21	Vanadium	-	0.0072	0.0072	U	method, field and equipment blank contamination
180-88291-1	GWA-47	Vanadium	-	0.012	0.012	U	method, field and equipment blank contamination
180-88291-1	GWA-22	Vanadium	-	0.0071	0.0071	U	method, field and equipment blank contamination
180-88291-1	GWA-46	Vanadium	-	0.0072	0.0072	U	method, field and equipment blank contamination
180-88291-1	GWA-51	Vanadium	-	0.0087	0.0087	U	method, field and equipment blank contamination
180-88291-1	FD-1 (PA)	Vanadium	-	0.0066	0.0066	U	method, field and equipment blank contamination
180-88291-1	GWC-50	Vanadium	-	0.0053	0.0053	U	field and equipment blank contamination
180-88291-1	GWC-53	Vanadium	-	0.0041	0.0041	U	field and equipment blank contamination
180-88291-1	GWC-29	Vanadium	-	0.0079	0.0079	U	field and equipment blank contamination
180-88291-1	GWC-52	Vanadium	-	0.01	0.01	U	field and equipment blank contamination
180-88291-1	FD-2 (PA)	Vanadium	-	0.0029	0.0029	U	field and equipment blank contamination

**Abbreviations:**

MDC : Minimum Detectable Concentration  
MDL: Method Detection Limit  
RL : Reporting limit  
SDG : Sample delivery group

**Qualifiers:**

U : Non-detect result



**APPENDIX A**

**2nd SEMI-ANNUAL 2019  
ANALYTICAL RESULTS, FIELD DATA FORMS &  
DATA VALIDATION SUMMARIES**

**ANALYTICAL RESULTS**

**CELL 1**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95563-1  
Laboratory Sample Delivery Group: Cell 1 LF  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 11:45:52 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

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**Job ID: 180-95563-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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## Narrative

### Job Narrative 180-95563-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/12/2019 9:00 AM, 9/13/2019 9:00 AM and 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.4° C, 1.9° C, 3.1° C and 3.4° C.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Methods 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-292548 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-292548 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
 SDG: Cell 1 LF

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95563-1	GWC-1	Water	09/10/19 13:40	09/12/19 09:00	
180-95563-2	GWC-2	Water	09/10/19 15:00	09/12/19 09:00	
180-95563-3	GWC-3	Water	09/10/19 12:17	09/12/19 09:00	
180-95563-4	GWC-4	Water	09/10/19 15:45	09/12/19 09:00	
180-95563-5	GWA-15	Water	09/10/19 12:00	09/12/19 09:00	
180-95563-6	GWA-16	Water	09/10/19 14:23	09/12/19 09:00	
180-95563-7	GWA-17	Water	09/10/19 15:35	09/12/19 09:00	
180-95563-8	EB-1(LF)	Water	09/10/19 16:40	09/12/19 09:00	
180-95563-9	FB-1(LF)	Water	09/10/19 15:44	09/12/19 09:00	
180-95563-10	FD-1(LF)	Water	09/10/19 00:00	09/12/19 09:00	
180-95639-1	GWC-5	Water	09/11/19 09:35	09/13/19 09:00	
180-95639-2	GWC-6	Water	09/11/19 10:50	09/13/19 09:00	
180-95639-3	GWC-7	Water	09/11/19 11:53	09/13/19 09:00	
180-95639-4	GWC-8A	Water	09/11/19 10:55	09/13/19 09:00	
180-95639-5	GWC-9	Water	09/11/19 13:00	09/13/19 09:00	
180-95639-6	GWC-10	Water	09/11/19 15:50	09/13/19 09:00	
180-95639-7	GWC-11	Water	09/11/19 14:30	09/13/19 09:00	
180-95639-8	GWC-12	Water	09/11/19 13:00	09/13/19 09:00	
180-95639-9	GWC-13	Water	09/11/19 14:12	09/13/19 09:00	
180-95639-10	GWC-14	Water	09/11/19 14:35	09/13/19 09:00	
180-95639-11	GWC-18	Water	09/11/19 13:12	09/13/19 09:00	
180-95639-12	FD-2(LF)	Water	09/11/19 00:00	09/13/19 09:00	
180-95639-13	FB-2(LF)	Water	09/11/19 10:00	09/13/19 09:00	
180-95639-14	EB-2(LF)	Water	09/11/19 16:40	09/13/19 09:00	
180-95737-1	GWC-19	Water	09/12/19 09:45	09/14/19 09:45	
180-95737-2	GWC-20	Water	09/12/19 11:10	09/14/19 09:45	

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-1**  
**Date Collected: 09/10/19 13:40**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:18	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 21:58	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:33	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

**Client Sample ID: GWC-2**  
**Date Collected: 09/10/19 15:00**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:09	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:34	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

**Client Sample ID: GWC-3**  
**Date Collected: 09/10/19 12:17**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:12	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:35	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-4**  
**Date Collected: 09/10/19 15:45**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 22:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:15	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:36	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291320	09/14/19 09:05	AVS	TAL PIT

**Client Sample ID: GWA-15**  
**Date Collected: 09/10/19 12:00**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 22:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:19	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291320	09/14/19 09:05	AVS	TAL PIT

**Client Sample ID: GWA-16**  
**Date Collected: 09/10/19 14:23**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 23:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:05	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:41	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-17**

**Lab Sample ID: 180-95563-7**

**Date Collected: 09/10/19 15:35**

**Matrix: Water**

**Date Received: 09/12/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 23:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:08	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:42	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: EB-1(LF)**

**Lab Sample ID: 180-95563-8**

**Date Collected: 09/10/19 16:40**

**Matrix: Water**

**Date Received: 09/12/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:03	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:12	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:18	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: FB-1(LF)**

**Lab Sample ID: 180-95563-9**

**Date Collected: 09/10/19 15:44**

**Matrix: Water**

**Date Received: 09/12/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:17	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:15	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:18	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:44	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

**Date Collected: 09/10/19 00:00**

**Matrix: Water**

**Date Received: 09/12/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:32	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:18	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:45	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95639-1**

**Date Collected: 09/11/19 09:35**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 09:57	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:17	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:07	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:31	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-6**

**Lab Sample ID: 180-95639-2**

**Date Collected: 09/11/19 10:50**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 10:13	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:20	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:10	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:38	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-6**  
**Date Collected: 09/11/19 10:50**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-7**  
**Date Collected: 09/11/19 11:53**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:00	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:24	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:13	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-8A**  
**Date Collected: 09/11/19 10:55**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:16	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:27	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:17	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:41	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-9**  
**Date Collected: 09/11/19 13:00**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:32	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:30	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:20	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:42	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-10**  
**Date Collected: 09/11/19 15:50**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:48	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:34	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:23	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-11**  
**Date Collected: 09/11/19 14:30**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 12:04	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:37	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:27	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-11**  
**Date Collected: 09/11/19 14:30**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:44	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Client Sample ID: GWC-12**  
**Date Collected: 09/11/19 13:00**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			291680	09/18/19 12:19	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292548	09/24/19 16:41	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292716	09/25/19 15:30	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:46	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Client Sample ID: GWC-13**  
**Date Collected: 09/11/19 14:12**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			291680	09/18/19 12:35	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292548	09/24/19 16:44	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292716	09/25/19 15:34	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:47	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-14**

**Lab Sample ID: 180-95639-10**

**Date Collected: 09/11/19 14:35**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 13:23	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:48	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:44	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:48	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-18**

**Lab Sample ID: 180-95639-11**

**Date Collected: 09/11/19 13:12**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 14:10	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:58	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:47	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:53	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

**Date Collected: 09/11/19 00:00**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 14:26	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:30	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:54	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

**Date Collected: 09/11/19 00:00**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: FB-2(LF)**

**Lab Sample ID: 180-95639-13**

**Date Collected: 09/11/19 10:00**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			294038	10/08/19 05:49	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:33	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:55	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: EB-2(LF)**

**Lab Sample ID: 180-95639-14**

**Date Collected: 09/11/19 16:40**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292035	09/20/19 22:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:37	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:56	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

**Date Collected: 09/12/19 09:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 17:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:46	WTR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

**Date Collected: 09/12/19 09:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:38	RJR	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Client Sample ID: GWC-20**

**Lab Sample ID: 180-95737-2**

**Date Collected: 09/12/19 11:10**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			292203	09/22/19 18:22	CMR	TAL PIT
		Instrument ID: CHICS2000								
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293025	09/27/19 17:49	WTR	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:39	RJR	TAL PIT
		Instrument ID: HGZ								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: TAL PIT

Batch Type: Prep

KAK = Kayla Kalamasz

MWW = Margaret Wanyoike

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

MJH = Matthew Hartman

PM = Paloma Hoelzle

RJR = Ron Rosenbaum

RSK = Robert Kurtz

WTR = Bill Reinheimer

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-1**  
Date Collected: 09/10/19 13:40  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			09/16/19 21:18	1
Fluoride	0.077	J	0.10	0.026	mg/L			09/16/19 21:18	1
Sulfate	0.69	J	1.0	0.38	mg/L			09/16/19 21:18	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 21:58	1
Arsenic	0.00033	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 21:58	1
Barium	0.046		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 21:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 21:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 21:58	1
Chromium	0.018		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 21:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 21:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 21:58	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 21:58	1
Nickel	0.00065	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 21:58	1
Vanadium	0.020		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 21:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 21:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 21:58	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 21:58	1
Calcium	17		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 21:58	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 21:58	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-2**  
Date Collected: 09/10/19 15:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			09/16/19 21:33	1
Fluoride	0.048	J	0.10	0.026	mg/L			09/16/19 21:33	1
Sulfate	0.63	J	1.0	0.38	mg/L			09/16/19 21:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00042	J	0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:09	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:09	1
Barium	0.047		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:09	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:09	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-2**  
Date Collected: 09/10/19 15:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-2**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.014</b>		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Cobalt</b>	<b>0.00015</b>	<b>J</b>	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:09	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:09	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:09	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Nickel</b>	<b>0.0022</b>		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Vanadium</b>	<b>0.018</b>		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:09	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Zinc</b>	<b>0.0040</b>	<b>J</b>	0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Calcium</b>	<b>18</b>		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:09	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:09	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>140</b>		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-3**  
Date Collected: 09/10/19 12:17  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			09/16/19 21:48	1
<b>Fluoride</b>	<b>0.058</b>	<b>J</b>	0.10	0.026	mg/L			09/16/19 21:48	1
<b>Sulfate</b>	<b>0.70</b>	<b>J</b>	1.0	0.38	mg/L			09/16/19 21:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Arsenic</b>	<b>0.00032</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Barium</b>	<b>0.014</b>		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Chromium</b>	<b>0.0092</b>		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Cobalt</b>	<b>0.00028</b>	<b>J</b>	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:12	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Nickel</b>	<b>0.0016</b>		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Vanadium</b>	<b>0.0078</b>		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Copper</b>	<b>0.0011</b>	<b>J</b>	0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:12	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-3**  
Date Collected: 09/10/19 12:17  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-3**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0069		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:12	1
Calcium	6.6		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:12	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:12	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-4**  
Date Collected: 09/10/19 15:45  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			09/16/19 22:33	1
Fluoride	0.097	J	0.10	0.026	mg/L			09/16/19 22:33	1
Sulfate	1.7		1.0	0.38	mg/L			09/16/19 22:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:15	1
Arsenic	0.00032	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:15	1
Barium	0.037		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:15	1
Chromium	0.0067		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:15	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:15	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:15	1
Nickel	0.00079	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:15	1
Vanadium	0.0086		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:15	1
Copper	0.0017	J	0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:15	1
Zinc	0.0060		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:15	1
Calcium	12		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:15	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			09/14/19 09:05	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-15**  
Date Collected: 09/10/19 12:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		1.0	0.71	mg/L			09/16/19 22:48	1
Fluoride	<0.026		0.10	0.026	mg/L			09/16/19 22:48	1
Sulfate	0.65	J	1.0	0.38	mg/L			09/16/19 22:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:19	1
Arsenic	0.00032	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:19	1
Barium	0.011		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:19	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:19	1
Chromium	0.0023	J	0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Cobalt	0.0012	J	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:19	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:19	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:19	1
Nickel	0.00081	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:19	1
Vanadium	0.0022		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:19	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:19	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:19	1
Zinc	0.0060		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:19	1
Calcium	4.8		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:19	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:19	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			09/14/19 09:05	1

**Client Sample ID: GWA-16**  
Date Collected: 09/10/19 14:23  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			09/16/19 23:33	1
Fluoride	0.047	J	0.10	0.026	mg/L			09/16/19 23:33	1
Sulfate	<0.38		1.0	0.38	mg/L			09/16/19 23:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:05	1
Arsenic	0.00049	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:05	1
Barium	0.039	B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:05	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:05	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-16**  
Date Collected: 09/10/19 14:23  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-6**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0076		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Cobalt	0.00031	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:05	1
Lead	0.00016	J	0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:05	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Thallium	0.00021	J	0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:05	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:05	1
Nickel	0.00037	J	0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:05	1
Vanadium	0.010		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:05	1
Copper	0.00095	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:05	1
Zinc	0.0047	J	0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:05	1
Calcium	12		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:05	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:05	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	75		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: GWA-17**  
Date Collected: 09/10/19 15:35  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			09/16/19 23:48	1
Fluoride	0.046	J	0.10	0.026	mg/L			09/16/19 23:48	1
Sulfate	0.44	J	1.0	0.38	mg/L			09/16/19 23:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:08	1
Arsenic	0.00069	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:08	1
Barium	0.051	B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:08	1
Cadmium	0.00013	J	0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:08	1
Chromium	0.012		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Cobalt	0.00052	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:08	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:08	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Thallium	0.00023	J	0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:08	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:08	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:08	1
Vanadium	0.0091		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:08	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-17**  
Date Collected: 09/10/19 15:35  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-7**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0084		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:08	1
Calcium	7.5		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:08	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:08	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: EB-1(LF)**

Date Collected: 09/10/19 16:40  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-8**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/17/19 00:03	1
Fluoride	<0.026		0.10	0.026	mg/L			09/17/19 00:03	1
Sulfate	<0.38		1.0	0.38	mg/L			09/17/19 00:03	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:12	1
Arsenic	0.00049	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:12	1
Barium	0.0072	J B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:12	1
Chromium	0.0032		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Cobalt	0.000080	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:12	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:12	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:12	1
Vanadium	0.0022		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:12	1
Copper	0.00066	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:12	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:12	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:12	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:12	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:18	09/27/19 14:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FB-1(LF)**

**Lab Sample ID: 180-95563-9**

Date Collected: 09/10/19 15:44

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/17/19 00:17	1
Fluoride	<0.026		0.10	0.026	mg/L			09/17/19 00:17	1
Sulfate	<0.38		1.0	0.38	mg/L			09/17/19 00:17	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Barium</b>	<b>0.0053</b>	<b>J B</b>	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Chromium</b>	<b>0.0030</b>		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:15	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:15	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:15	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Copper</b>	<b>0.00067</b>	<b>J</b>	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:15	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:15	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:15	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:18	09/27/19 14:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

Date Collected: 09/10/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			09/17/19 00:32	1
<b>Fluoride</b>	<b>0.054</b>	<b>J</b>	0.10	0.026	mg/L			09/17/19 00:32	1
<b>Sulfate</b>	<b>0.70</b>	<b>J</b>	1.0	0.38	mg/L			09/17/19 00:32	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Barium</b>	<b>0.028</b>	<b>B</b>	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Cadmium</b>	<b>0.00024</b>	<b>J</b>	0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:18	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

Date Collected: 09/10/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0095		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Cobalt	0.00021	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:18	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:18	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:18	1
Nickel	0.00095	J	0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:18	1
Vanadium	0.0076		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:18	1
Copper	0.00092	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:18	1
Zinc	0.0046	J	0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:18	1
Calcium	7.0		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:18	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:18	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:19	09/27/19 14:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95639-1**

Date Collected: 09/11/19 09:35

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		1.0	0.71	mg/L			09/18/19 09:57	1
Fluoride	0.045	J	0.10	0.026	mg/L			09/18/19 09:57	1
Sulfate	130		1.0	0.38	mg/L			09/18/19 09:57	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:17	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:17	1
Barium	0.039		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:17	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:17	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:17	1
Chromium	0.0079		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Cobalt	0.000099	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:17	1
Selenium	0.0079		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Nickel	0.00070	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:17	1
Vanadium	0.0047		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:17	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:17	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:17	1
Zinc	0.0074		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:17	1
Calcium	46		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:17	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-5**  
Date Collected: 09/11/19 09:35  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-1**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.31		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:07	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-6**  
Date Collected: 09/11/19 10:50  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/18/19 10:13	1
Fluoride	0.058	J	0.10	0.026	mg/L			09/18/19 10:13	1
Sulfate	12		1.0	0.38	mg/L			09/18/19 10:13	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:20	1
Arsenic	0.00041	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:20	1
Barium	0.059		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:20	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:20	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:20	1
Chromium	0.0078		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Cobalt	0.000087	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:20	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Nickel	0.00099	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:20	1
Vanadium	0.012		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:20	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:20	1
Copper	0.00066	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:20	1
Zinc	0.0062		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:20	1
Calcium	19		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:20	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:10	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/16/19 11:39	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-95639-3**

Date Collected: 09/11/19 11:53

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			09/18/19 11:00	1
Fluoride	0.057	J	0.10	0.026	mg/L			09/18/19 11:00	1
Sulfate	0.52	J	1.0	0.38	mg/L			09/18/19 11:00	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:24	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:24	1
Barium	0.035		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:24	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:24	1
Chromium	0.013		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Cobalt	0.00016	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:24	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Nickel	0.00046	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:24	1
Vanadium	0.015		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:24	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:24	1
Copper	0.00086	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:24	1
Zinc	0.0074		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:24	1
Calcium	14		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:24	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:13	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-95639-4**

Date Collected: 09/11/19 10:55

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.71	mg/L			09/18/19 11:16	1
Fluoride	0.071	J	0.10	0.026	mg/L			09/18/19 11:16	1
Sulfate	32		1.0	0.38	mg/L			09/18/19 11:16	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:27	1
Arsenic	0.0010	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:27	1
Barium	0.022		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:27	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:27	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:27	1
Chromium	0.0052		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:27	1
Cobalt	0.00085	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:27	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-95639-4**

Date Collected: 09/11/19 10:55

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:27	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:27	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Nickel</b>	<b>0.0013</b>		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Vanadium</b>	<b>0.0042</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:27	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:27	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Zinc</b>	<b>0.0052</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Calcium</b>	<b>37</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Boron</b>	<b>0.21</b>		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:17	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>210</b>		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-95639-5**

Date Collected: 09/11/19 13:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.4</b>		1.0	0.71	mg/L			09/18/19 11:32	1
<b>Fluoride</b>	<b>0.067</b>	<b>J</b>	0.10	0.026	mg/L			09/18/19 11:32	1
<b>Sulfate</b>	<b>9.6</b>		1.0	0.38	mg/L			09/18/19 11:32	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Arsenic</b>	<b>0.00055</b>	<b>J</b>	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Barium</b>	<b>0.028</b>		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:30	1
Beryllium	<0.00018	<b>^</b>	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:30	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Chromium</b>	<b>0.012</b>		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:30	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:30	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Nickel</b>	<b>0.00063</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Vanadium</b>	<b>0.025</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:30	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Calcium</b>	<b>17</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Boron</b>	<b>0.083</b>		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:20	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-95639-5**

Date Collected: 09/11/19 13:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-95639-6**

Date Collected: 09/11/19 15:50

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			09/18/19 11:48	1
Fluoride	0.067	J	0.10	0.026	mg/L			09/18/19 11:48	1
Sulfate	1.8		1.0	0.38	mg/L			09/18/19 11:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:34	1
Arsenic	0.00055	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:34	1
Barium	0.033		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:34	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:34	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:34	1
Chromium	0.023		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:34	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Nickel	0.0016		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:34	1
Vanadium	0.017		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:34	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:34	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:34	1
Calcium	18		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:34	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:23	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-95639-7**

Date Collected: 09/11/19 14:30

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			09/18/19 12:04	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-11**  
Date Collected: 09/11/19 14:30  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.054	J	0.10	0.026	mg/L			09/18/19 12:04	1
Sulfate	0.63	J	1.0	0.38	mg/L			09/18/19 12:04	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:37	1
Arsenic	0.00045	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:37	1
Barium	0.017		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:37	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:37	1
Chromium	0.011		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:37	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Nickel	0.00066	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:37	1
Vanadium	0.015		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:37	1
Zinc	0.0072		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:37	1
Calcium	13		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:37	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:27	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-12**  
Date Collected: 09/11/19 13:00  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-8**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/18/19 12:19	1
Fluoride	0.039	J	0.10	0.026	mg/L			09/18/19 12:19	1
Sulfate	0.50	J	1.0	0.38	mg/L			09/18/19 12:19	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:41	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:41	1
Barium	0.017		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:41	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:41	1
Chromium	0.0036		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:41	1
Cobalt	0.00042	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:41	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-12**  
Date Collected: 09/11/19 13:00  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-8**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:41	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Nickel</b>	<b>0.00084</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Vanadium</b>	<b>0.0052</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:41	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:41	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Zinc</b>	<b>0.0065</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Calcium</b>	<b>0.94</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:41	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>14</b>		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-13**  
Date Collected: 09/11/19 14:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-9**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			09/18/19 12:35	1
<b>Fluoride</b>	<b>0.051</b>	<b>J</b>	0.10	0.026	mg/L			09/18/19 12:35	1
<b>Sulfate</b>	<b>0.81</b>	<b>J</b>	1.0	0.38	mg/L			09/18/19 12:35	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Arsenic</b>	<b>0.00042</b>	<b>J</b>	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Barium</b>	<b>0.035</b>		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:44	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:44	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Chromium</b>	<b>0.0075</b>		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:44	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:44	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:44	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Nickel</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Vanadium</b>	<b>0.0062</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:44	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:44	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Zinc</b>	<b>0.0085</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Calcium</b>	<b>7.0</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:44	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:34	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:47	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-13**  
Date Collected: 09/11/19 14:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-9**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-14**  
Date Collected: 09/11/19 14:35  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-10**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			09/18/19 13:23	1
Fluoride	0.045	J	0.10	0.026	mg/L			09/18/19 13:23	1
Sulfate	0.50	J	1.0	0.38	mg/L			09/18/19 13:23	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:48	1
Arsenic	0.00045	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:48	1
Barium	0.011		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:48	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:48	1
Chromium	0.0038		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:48	1
Vanadium	0.0062		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:48	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:48	1
Calcium	7.3		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:48	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:44	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:48	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-18**  
Date Collected: 09/11/19 13:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-11**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.71	mg/L			09/18/19 14:10	1
Fluoride	0.055	J	0.10	0.026	mg/L			09/18/19 14:10	1
Sulfate	0.61	J	1.0	0.38	mg/L			09/18/19 14:10	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-18**

**Lab Sample ID: 180-95639-11**

Date Collected: 09/11/19 13:12

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00039	J	0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:58	1
Arsenic	0.00043	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:58	1
Barium	0.035		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:58	1
Chromium	0.017		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Cobalt	0.00023	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Nickel	0.00048	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:58	1
Vanadium	0.011		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:58	1
Copper	0.00084	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:58	1
Zinc	0.0077		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:58	1
Calcium	10		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:58	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:47	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	77		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			09/18/19 14:26	1
Fluoride	0.058	J	0.10	0.026	mg/L			09/18/19 14:26	1
Sulfate	0.83	J	1.0	0.38	mg/L			09/18/19 14:26	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00042	J	0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:30	1
Arsenic	0.00062	J B	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:30	1
Barium	0.036		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:30	1
Beryllium	0.00067	J B	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:30	1
Cadmium	0.00014	J B	0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:30	1
Chromium	0.013		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Cobalt	0.00031	J B	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:30	1
Lead	0.00023	J B	0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:30	1
Selenium	0.0016	J	0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Thallium	0.00032		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Nickel	0.00082	J	0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:30	1
Vanadium	0.016		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0012	J	0.0020	0.00063	mg/L	-	09/19/19 12:36	09/20/19 17:30	1
Zinc	0.0054		0.0050	0.0032	mg/L	-	09/19/19 12:36	09/20/19 17:30	1
Calcium	15		0.25	0.13	mg/L	-	09/19/19 12:36	09/20/19 17:30	1
Boron	0.060		0.050	0.039	mg/L	-	09/19/19 12:36	09/20/19 17:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L	-	10/01/19 17:58	10/02/19 16:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99		10	10	mg/L	-		09/17/19 11:51	1

**Client Sample ID: FB-2(LF)**

**Lab Sample ID: 180-95639-13**

Date Collected: 09/11/19 10:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L	-		10/08/19 05:49	1
Fluoride	<0.026		0.10	0.026	mg/L	-		10/08/19 05:49	1
Sulfate	<0.38		1.0	0.38	mg/L	-		10/08/19 05:49	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Arsenic	0.00045	J B	0.0013	0.00032	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Barium	<0.0016		0.010	0.0016	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Beryllium	0.00035	J B	0.0025	0.00018	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Cadmium	<0.00013		0.0025	0.00013	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Chromium	0.0027		0.0025	0.0015	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Cobalt	0.00011	J B	0.0025	0.000075	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Lead	<0.00013		0.0010	0.00013	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Selenium	<0.0015		0.0025	0.0015	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Thallium	0.00015		0.00050	0.00015	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Nickel	<0.00034		0.0010	0.00034	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Vanadium	0.0021		0.0010	0.00099	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Silver	<0.00018		0.0010	0.00018	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Copper	<0.00063		0.0020	0.00063	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Zinc	0.0036	J	0.0050	0.0032	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Calcium	<0.13		0.25	0.13	mg/L	-	09/19/19 12:36	09/20/19 17:33	1
Boron	<0.039		0.050	0.039	mg/L	-	09/19/19 12:36	09/20/19 17:33	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L	-	10/01/19 17:58	10/02/19 16:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		10	10	mg/L	-		09/17/19 11:51	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: EB-2(LF)**

**Lab Sample ID: 180-95639-14**

Date Collected: 09/11/19 16:40

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 22:37	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 22:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 22:37	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Arsenic</b>	<b>0.00039</b>	<b>J B</b>	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:37	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Beryllium</b>	<b>0.00025</b>	<b>J B</b>	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Chromium</b>	<b>0.0029</b>		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Cobalt</b>	<b>0.000087</b>	<b>J B</b>	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:37	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Thallium</b>	<b>0.00015</b>		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:37	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:37	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:37	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:37	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

Date Collected: 09/12/19 09:45

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			09/22/19 17:37	1
<b>Fluoride</b>	<b>0.032</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 17:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 17:37	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:46	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Barium</b>	<b>0.026</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:46	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Chromium</b>	<b>0.012</b>		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Cobalt</b>	<b>0.00021</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:46	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-19**  
Date Collected: 09/12/19 09:45  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95737-1**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:46	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:46	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:46	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Nickel</b>	<b>0.0015</b>		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Vanadium</b>	<b>0.0083</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:46	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Zinc</b>	<b>0.0059</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:46	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>70</b>		10	10	mg/L			09/19/19 12:24	1

**Client Sample ID: GWC-20**  
Date Collected: 09/12/19 11:10  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95737-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.71	mg/L			09/22/19 18:22	1
<b>Fluoride</b>	<b>0.044</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 18:22	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 18:22	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:49	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Barium</b>	<b>0.035</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:49	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Chromium</b>	<b>0.011</b>		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Cobalt</b>	<b>0.00021</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:49	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:49	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:49	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Nickel</b>	<b>0.00097</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Vanadium</b>	<b>0.020</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:49	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Zinc</b>	<b>0.0065</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:49	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:39	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-20**  
**Date Collected: 09/12/19 11:10**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95737-2**  
**Matrix: Water**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			09/19/19 12:24	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-291418/56**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/16/19 21:04	1
Fluoride	<0.026		0.10	0.026	mg/L			09/16/19 21:04	1
Sulfate	<0.38		1.0	0.38	mg/L			09/16/19 21:04	1

**Lab Sample ID: LCS 180-291418/55**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.22		mg/L		97	90 - 110
Sulfate	25.0	23.9		mg/L		96	90 - 110

**Lab Sample ID: 180-95563-3 MS**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: GWC-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.5		25.0	28.6		mg/L		104	80 - 120
Fluoride	0.058	J	1.25	1.26		mg/L		97	80 - 120
Sulfate	0.70	J	25.0	26.0		mg/L		101	80 - 120

**Lab Sample ID: 180-95563-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: GWC-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		25.0	28.9		mg/L		106	80 - 120	1	20
Fluoride	0.058	J	1.25	1.27		mg/L		97	80 - 120	0	20
Sulfate	0.70	J	25.0	26.0		mg/L		101	80 - 120	0	20

**Lab Sample ID: MB 180-291680/6**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/18/19 04:37	1
Fluoride	<0.026		0.10	0.026	mg/L			09/18/19 04:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/18/19 04:37	1

**Lab Sample ID: LCS 180-291680/5**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.7		mg/L		103	90 - 110
Fluoride	1.25	1.22		mg/L		98	90 - 110
Sulfate	25.0	25.4		mg/L		102	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-95639-9 MS**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	25.6		mg/L		96	80 - 120
Fluoride	0.051	J	1.25	1.24		mg/L		95	80 - 120
Sulfate	0.81	J	25.0	25.1		mg/L		97	80 - 120

**Lab Sample ID: 180-95639-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	24.4		mg/L		92	80 - 120	5	20
Fluoride	0.051	J	1.25	1.17		mg/L		90	80 - 120	6	20
Sulfate	0.81	J	25.0	23.5		mg/L		91	80 - 120	6	20

**Lab Sample ID: MB 180-292035/18**  
**Matrix: Water**  
**Analysis Batch: 292035**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 14:59	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 14:59	1

**Lab Sample ID: LCS 180-292035/17**  
**Matrix: Water**  
**Analysis Batch: 292035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110
Fluoride	1.25	1.35		mg/L		108	90 - 110
Sulfate	25.0	25.5		mg/L		102	90 - 110

**Lab Sample ID: MB 180-292203/15**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 15:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:23	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 15:23	1

**Lab Sample ID: LCS 180-292203/5**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	24.4		mg/L		98	90 - 110



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-95737-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-19**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.2		mg/L		103	80 - 120
Fluoride	0.032	J	1.25	1.29		mg/L		101	80 - 120
Sulfate	<0.38		25.0	26.1		mg/L		104	80 - 120

**Lab Sample ID: 180-95737-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-19**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	26.3		mg/L		99	80 - 120	4	20
Fluoride	0.032	J	1.25	1.24		mg/L		97	80 - 120	4	20
Sulfate	<0.38		25.0	24.8		mg/L		99	80 - 120	5	20

**Lab Sample ID: MB 180-294038/6**  
**Matrix: Water**  
**Analysis Batch: 294038**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/08/19 04:56	1
Fluoride	<0.026		0.10	0.026	mg/L			10/08/19 04:56	1
Sulfate	<0.38		1.0	0.38	mg/L			10/08/19 04:56	1

**Lab Sample ID: LCS 180-294038/5**  
**Matrix: Water**  
**Analysis Batch: 294038**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.3		mg/L		97	90 - 110
Fluoride	1.25	1.26		mg/L		101	90 - 110
Sulfate	25.0	24.1		mg/L		96	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-291656/1-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 20:30	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 20:30	1
Barium	<0.0016		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 20:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 20:30	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 20:30	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 20:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 20:30	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 20:30	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 20:30	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291656/1-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 20:30	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 20:30	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 20:30	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 20:30	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 20:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 20:30	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 20:30	1

**Lab Sample ID: LCS 180-291656/2-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.277		mg/L		111	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.518		mg/L		104	80 - 120
Cadmium	0.500	0.544		mg/L		109	80 - 120
Chromium	0.500	0.562		mg/L		112	80 - 120
Cobalt	0.500	0.570		mg/L		114	80 - 120
Lead	0.500	0.541		mg/L		108	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.20		mg/L		120	80 - 120
Molybdenum	0.500	0.527		mg/L		105	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Copper	0.500	0.573		mg/L		115	80 - 120
Calcium	25.0	26.7		mg/L		107	80 - 120
Boron	1.25	1.17		mg/L		94	80 - 120
Nickel	0.500	0.565		mg/L		113	80 - 120
Vanadium	0.500	0.551		mg/L		110	80 - 120
Silver	0.250	0.267		mg/L		107	80 - 120
Zinc	0.250	0.298		mg/L		119	80 - 120

**Lab Sample ID: MB 180-291661/1-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 11:48	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 11:48	1
Barium	0.00356	J	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 11:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 11:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 11:48	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 11:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 11:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 11:48	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291661/1-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 11:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 11:48	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 11:48	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 11:48	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 11:48	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 11:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 11:48	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 11:48	1

**Lab Sample ID: LCS 180-291661/2-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.500	0.502		mg/L		100	80 - 120
Cadmium	0.500	0.530		mg/L		106	80 - 120
Chromium	0.500	0.563		mg/L		113	80 - 120
Cobalt	0.500	0.560		mg/L		112	80 - 120
Lead	0.500	0.556		mg/L		111	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.14		mg/L		114	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Copper	0.500	0.559		mg/L		112	80 - 120
Calcium	25.0	27.6		mg/L		110	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120
Nickel	0.500	0.560		mg/L		112	80 - 120
Vanadium	0.500	0.546		mg/L		109	80 - 120
Silver	0.250	0.265		mg/L		106	80 - 120
Zinc	0.250	0.231		mg/L		92	80 - 120

**Lab Sample ID: MB 180-291941/1-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:06	1
Arsenic	0.000586	J	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:06	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:06	1
Beryllium	0.000451	J	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:06	1
Cadmium	0.000245	J	0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:06	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:06	1
Cobalt	0.000243	J	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:06	1
Lead	0.000267	J	0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:06	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:06	1
Thallium	0.000510		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:06	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291941/1-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:06	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:06	1
Boron	0.0502		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:06	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:06	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:06	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:06	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:06	1

**Lab Sample ID: LCS 180-291941/2-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.281		mg/L		112	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.539		mg/L		108	80 - 120
Cadmium	0.500	0.544		mg/L		109	80 - 120
Chromium	0.500	0.533		mg/L		107	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Lead	0.500	0.565		mg/L		113	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.14		mg/L		114	80 - 120
Copper	0.500	0.526		mg/L		105	80 - 120
Calcium	25.0	27.4		mg/L		110	80 - 120
Boron	1.25	1.36		mg/L		109	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Vanadium	0.500	0.531		mg/L		106	80 - 120
Silver	0.250	0.271		mg/L		108	80 - 120
Zinc	0.250	0.269		mg/L		107	80 - 120

**Lab Sample ID: MB 180-291943/1-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 15:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 15:12	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 15:12	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 15:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 15:12	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 15:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 15:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 15:12	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 15:12	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 15:12	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291943/1-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 15:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 15:12	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 15:12	1

**Lab Sample ID: LCS 180-291943/2-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.267		mg/L		107	80 - 120
Arsenic	1.00	0.919		mg/L		92	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.525	^	mg/L		105	80 - 120
Cadmium	0.500	0.498		mg/L		100	80 - 120
Chromium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.465		mg/L		93	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.999		mg/L		100	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Copper	0.500	0.466		mg/L		93	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Nickel	0.500	0.466		mg/L		93	80 - 120
Vanadium	0.500	0.463		mg/L		93	80 - 120
Silver	0.250	0.254		mg/L		102	80 - 120
Zinc	0.250	0.269		mg/L		107	80 - 120

**Lab Sample ID: MB 180-292487/1-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 16:38	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 16:38	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 16:38	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 16:38	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:38	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:38	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-292487/2-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.526		mg/L		105	80 - 120
Selenium	1.00	1.08		mg/L		108	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120
Boron	1.25	1.18		mg/L		95	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Silver	0.250	0.253		mg/L		101	80 - 120
Zinc	0.250	0.289		mg/L		116	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-292677/1-A**  
**Matrix: Water**  
**Analysis Batch: 293023**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 292677**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:18	1

**Lab Sample ID: LCS 180-292677/2-A**  
**Matrix: Water**  
**Analysis Batch: 293023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 292677**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00211		mg/L		85	80 - 120

**Lab Sample ID: MB 180-293395/1-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:29	1

**Lab Sample ID: LCS 180-293395/2-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-95639-1 MS**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000957		mg/L		96	75 - 125

**Lab Sample ID: 180-95639-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000961		mg/L		96	75 - 125	0	20

**Lab Sample ID: MB 180-293530/1-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:26	1

**Lab Sample ID: LCS 180-293530/2-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-291269/2**  
**Matrix: Water**  
**Analysis Batch: 291269**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/13/19 12:59	1

**Lab Sample ID: LCS 180-291269/1**  
**Matrix: Water**  
**Analysis Batch: 291269**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	633	598		mg/L		94	80 - 120

**Lab Sample ID: MB 180-291320/2**  
**Matrix: Water**  
**Analysis Batch: 291320**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 09:05	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-291320/1**  
**Matrix: Water**  
**Analysis Batch: 291320**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	608		mg/L		96	80 - 120

**Lab Sample ID: MB 180-291355/2**  
**Matrix: Water**  
**Analysis Batch: 291355**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

**Lab Sample ID: LCS 180-291355/1**  
**Matrix: Water**  
**Analysis Batch: 291355**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	566		mg/L		89	80 - 120

**Lab Sample ID: MB 180-291463/2**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/16/19 11:39	1

**Lab Sample ID: LCS 180-291463/1**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	580		mg/L		92	80 - 120

**Lab Sample ID: 180-95639-1 DU**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	310		307		mg/L		0.6	10

**Lab Sample ID: 180-95639-4 DU**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: GWC-8A**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		223		mg/L		5	10

**Lab Sample ID: MB 180-291605/2**  
**Matrix: Water**  
**Analysis Batch: 291605**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/17/19 11:51	1

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# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
 SDG: Cell 1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: LCS 180-291605/1**  
**Matrix: Water**  
**Analysis Batch: 291605**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	532		mg/L		84	80 - 120

**Lab Sample ID: MB 180-291934/2**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:24	1

**Lab Sample ID: LCS 180-291934/1**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	542		mg/L		86	80 - 120

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## HPLC/IC

### Analysis Batch: 291418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-95563-2	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-95563-4	GWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-95563-5	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-95563-6	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-95563-7	GWA-17	Total/NA	Water	EPA 300.0 R2.1	
180-95563-8	EB-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
180-95563-9	FB-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
180-95563-10	FD-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-291418/56	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-291418/55	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3 MS	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3 MSD	GWC-3	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 291680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-95639-2	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-95639-3	GWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-95639-4	GWC-8A	Total/NA	Water	EPA 300.0 R2.1	
180-95639-5	GWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-95639-6	GWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-95639-7	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-95639-8	GWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-95639-10	GWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-95639-11	GWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-95639-12	FD-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-291680/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-291680/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9 MS	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9 MSD	GWC-13	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-14	EB-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292035/18	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292035/17	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-95737-2	GWC-20	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292203/15	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292203/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95737-1 MS	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-95737-1 MSD	GWC-19	Total/NA	Water	EPA 300.0 R2.1	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## HPLC/IC

### Analysis Batch: 294038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-13	FB-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-294038/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-294038/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 291656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total Recoverable	Water	3005A	
180-95563-2	GWC-2	Total Recoverable	Water	3005A	
180-95563-3	GWC-3	Total Recoverable	Water	3005A	
180-95563-4	GWC-4	Total Recoverable	Water	3005A	
180-95563-5	GWA-15	Total Recoverable	Water	3005A	
MB 180-291656/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291656/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total Recoverable	Water	3005A	
180-95563-7	GWA-17	Total Recoverable	Water	3005A	
180-95563-8	EB-1(LF)	Total Recoverable	Water	3005A	
180-95563-9	FB-1(LF)	Total Recoverable	Water	3005A	
180-95563-10	FD-1(LF)	Total Recoverable	Water	3005A	
MB 180-291661/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291661/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-12	FD-2(LF)	Total Recoverable	Water	3005A	
180-95639-13	FB-2(LF)	Total Recoverable	Water	3005A	
180-95639-14	EB-2(LF)	Total Recoverable	Water	3005A	
MB 180-291941/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291941/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	3005A	
180-95639-2	GWC-6	Total Recoverable	Water	3005A	
180-95639-3	GWC-7	Total Recoverable	Water	3005A	
180-95639-4	GWC-8A	Total Recoverable	Water	3005A	
180-95639-5	GWC-9	Total Recoverable	Water	3005A	
180-95639-6	GWC-10	Total Recoverable	Water	3005A	
180-95639-7	GWC-11	Total Recoverable	Water	3005A	
180-95639-8	GWC-12	Total Recoverable	Water	3005A	
180-95639-9	GWC-13	Total Recoverable	Water	3005A	
180-95639-10	GWC-14	Total Recoverable	Water	3005A	
180-95639-11	GWC-18	Total Recoverable	Water	3005A	
MB 180-291943/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291943/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals

### Analysis Batch: 292150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-12	FD-2(LF)	Total Recoverable	Water	EPA 6020	291941
180-95639-13	FB-2(LF)	Total Recoverable	Water	EPA 6020	291941
180-95639-14	EB-2(LF)	Total Recoverable	Water	EPA 6020	291941
MB 180-291941/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291941
LCS 180-291941/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291941

### Prep Batch: 292487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total Recoverable	Water	3005A	
180-95737-2	GWC-20	Total Recoverable	Water	3005A	
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 292548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	EPA 6020	291943
180-95639-2	GWC-6	Total Recoverable	Water	EPA 6020	291943
180-95639-3	GWC-7	Total Recoverable	Water	EPA 6020	291943
180-95639-4	GWC-8A	Total Recoverable	Water	EPA 6020	291943
180-95639-5	GWC-9	Total Recoverable	Water	EPA 6020	291943
180-95639-6	GWC-10	Total Recoverable	Water	EPA 6020	291943
180-95639-7	GWC-11	Total Recoverable	Water	EPA 6020	291943
180-95639-8	GWC-12	Total Recoverable	Water	EPA 6020	291943
180-95639-9	GWC-13	Total Recoverable	Water	EPA 6020	291943
180-95639-10	GWC-14	Total Recoverable	Water	EPA 6020	291943
180-95639-11	GWC-18	Total Recoverable	Water	EPA 6020	291943
MB 180-291943/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291943
LCS 180-291943/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291943

### Prep Batch: 292677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	7470A	
180-95563-2	GWC-2	Total/NA	Water	7470A	
180-95563-3	GWC-3	Total/NA	Water	7470A	
180-95563-4	GWC-4	Total/NA	Water	7470A	
180-95563-5	GWA-15	Total/NA	Water	7470A	
180-95563-6	GWA-16	Total/NA	Water	7470A	
180-95563-7	GWA-17	Total/NA	Water	7470A	
180-95563-8	EB-1(LF)	Total/NA	Water	7470A	
180-95563-9	FB-1(LF)	Total/NA	Water	7470A	
180-95563-10	FD-1(LF)	Total/NA	Water	7470A	
MB 180-292677/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-292677/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 292716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	EPA 6020	291943
180-95639-2	GWC-6	Total Recoverable	Water	EPA 6020	291943
180-95639-3	GWC-7	Total Recoverable	Water	EPA 6020	291943
180-95639-4	GWC-8A	Total Recoverable	Water	EPA 6020	291943
180-95639-5	GWC-9	Total Recoverable	Water	EPA 6020	291943

Eurofins TestAmerica, Pittsburgh



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals (Continued)

### Analysis Batch: 292716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-6	GWC-10	Total Recoverable	Water	EPA 6020	291943
180-95639-7	GWC-11	Total Recoverable	Water	EPA 6020	291943
180-95639-8	GWC-12	Total Recoverable	Water	EPA 6020	291943
180-95639-9	GWC-13	Total Recoverable	Water	EPA 6020	291943
180-95639-10	GWC-14	Total Recoverable	Water	EPA 6020	291943
180-95639-11	GWC-18	Total Recoverable	Water	EPA 6020	291943

### Analysis Batch: 292857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total Recoverable	Water	EPA 6020	291661
180-95563-7	GWA-17	Total Recoverable	Water	EPA 6020	291661
180-95563-8	EB-1(LF)	Total Recoverable	Water	EPA 6020	291661
180-95563-9	FB-1(LF)	Total Recoverable	Water	EPA 6020	291661
180-95563-10	FD-1(LF)	Total Recoverable	Water	EPA 6020	291661
MB 180-291661/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291661
LCS 180-291661/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291661

### Analysis Batch: 293023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	EPA 7470A	292677
180-95563-2	GWC-2	Total/NA	Water	EPA 7470A	292677
180-95563-3	GWC-3	Total/NA	Water	EPA 7470A	292677
180-95563-4	GWC-4	Total/NA	Water	EPA 7470A	292677
180-95563-5	GWA-15	Total/NA	Water	EPA 7470A	292677
180-95563-6	GWA-16	Total/NA	Water	EPA 7470A	292677
180-95563-7	GWA-17	Total/NA	Water	EPA 7470A	292677
180-95563-8	EB-1(LF)	Total/NA	Water	EPA 7470A	292677
180-95563-9	FB-1(LF)	Total/NA	Water	EPA 7470A	292677
180-95563-10	FD-1(LF)	Total/NA	Water	EPA 7470A	292677
MB 180-292677/1-A	Method Blank	Total/NA	Water	EPA 7470A	292677
LCS 180-292677/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	292677

### Analysis Batch: 293025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total Recoverable	Water	EPA 6020	292487
180-95737-2	GWC-20	Total Recoverable	Water	EPA 6020	292487
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292487
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292487

### Analysis Batch: 293231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total Recoverable	Water	EPA 6020	291656
180-95563-2	GWC-2	Total Recoverable	Water	EPA 6020	291656
180-95563-3	GWC-3	Total Recoverable	Water	EPA 6020	291656
180-95563-4	GWC-4	Total Recoverable	Water	EPA 6020	291656
180-95563-5	GWA-15	Total Recoverable	Water	EPA 6020	291656
MB 180-291656/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291656
LCS 180-291656/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291656

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals

### Prep Batch: 293395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	7470A	
180-95639-2	GWC-6	Total/NA	Water	7470A	
180-95639-3	GWC-7	Total/NA	Water	7470A	
180-95639-4	GWC-8A	Total/NA	Water	7470A	
180-95639-5	GWC-9	Total/NA	Water	7470A	
180-95639-6	GWC-10	Total/NA	Water	7470A	
180-95639-7	GWC-11	Total/NA	Water	7470A	
180-95639-8	GWC-12	Total/NA	Water	7470A	
180-95639-9	GWC-13	Total/NA	Water	7470A	
180-95639-10	GWC-14	Total/NA	Water	7470A	
180-95639-11	GWC-18	Total/NA	Water	7470A	
180-95639-12	FD-2(LF)	Total/NA	Water	7470A	
180-95639-13	FB-2(LF)	Total/NA	Water	7470A	
180-95639-14	EB-2(LF)	Total/NA	Water	7470A	
MB 180-293395/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95639-1 MS	GWC-5	Total/NA	Water	7470A	
180-95639-1 MSD	GWC-5	Total/NA	Water	7470A	

### Prep Batch: 293530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	7470A	
180-95737-2	GWC-20	Total/NA	Water	7470A	
MB 180-293530/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 293551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	EPA 7470A	293395
180-95639-2	GWC-6	Total/NA	Water	EPA 7470A	293395
180-95639-3	GWC-7	Total/NA	Water	EPA 7470A	293395
180-95639-4	GWC-8A	Total/NA	Water	EPA 7470A	293395
180-95639-5	GWC-9	Total/NA	Water	EPA 7470A	293395
180-95639-6	GWC-10	Total/NA	Water	EPA 7470A	293395
180-95639-7	GWC-11	Total/NA	Water	EPA 7470A	293395
180-95639-8	GWC-12	Total/NA	Water	EPA 7470A	293395
180-95639-9	GWC-13	Total/NA	Water	EPA 7470A	293395
180-95639-10	GWC-14	Total/NA	Water	EPA 7470A	293395
180-95639-11	GWC-18	Total/NA	Water	EPA 7470A	293395
180-95639-12	FD-2(LF)	Total/NA	Water	EPA 7470A	293395
180-95639-13	FB-2(LF)	Total/NA	Water	EPA 7470A	293395
180-95639-14	EB-2(LF)	Total/NA	Water	EPA 7470A	293395
MB 180-293395/1-A	Method Blank	Total/NA	Water	EPA 7470A	293395
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293395
180-95639-1 MS	GWC-5	Total/NA	Water	EPA 7470A	293395
180-95639-1 MSD	GWC-5	Total/NA	Water	EPA 7470A	293395

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	EPA 7470A	293530
180-95737-2	GWC-20	Total/NA	Water	EPA 7470A	293530

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals (Continued)

### Analysis Batch: 293683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-293530/1-A	Method Blank	Total/NA	Water	EPA 7470A	293530
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293530

## General Chemistry

### Analysis Batch: 291269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	SM 2540C	
180-95563-2	GWC-2	Total/NA	Water	SM 2540C	
180-95563-3	GWC-3	Total/NA	Water	SM 2540C	
MB 180-291269/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291269/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-4	GWC-4	Total/NA	Water	SM 2540C	
180-95563-5	GWA-15	Total/NA	Water	SM 2540C	
MB 180-291320/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291320/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total/NA	Water	SM 2540C	
180-95563-7	GWA-17	Total/NA	Water	SM 2540C	
180-95563-8	EB-1(LF)	Total/NA	Water	SM 2540C	
180-95563-9	FB-1(LF)	Total/NA	Water	SM 2540C	
180-95563-10	FD-1(LF)	Total/NA	Water	SM 2540C	
MB 180-291355/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291355/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	SM 2540C	
180-95639-2	GWC-6	Total/NA	Water	SM 2540C	
180-95639-3	GWC-7	Total/NA	Water	SM 2540C	
180-95639-4	GWC-8A	Total/NA	Water	SM 2540C	
180-95639-5	GWC-9	Total/NA	Water	SM 2540C	
MB 180-291463/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291463/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95639-1 DU	GWC-5	Total/NA	Water	SM 2540C	
180-95639-4 DU	GWC-8A	Total/NA	Water	SM 2540C	

### Analysis Batch: 291605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-6	GWC-10	Total/NA	Water	SM 2540C	
180-95639-7	GWC-11	Total/NA	Water	SM 2540C	
180-95639-8	GWC-12	Total/NA	Water	SM 2540C	
180-95639-9	GWC-13	Total/NA	Water	SM 2540C	
180-95639-10	GWC-14	Total/NA	Water	SM 2540C	
180-95639-11	GWC-18	Total/NA	Water	SM 2540C	
180-95639-12	FD-2(LF)	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## General Chemistry (Continued)

### Analysis Batch: 291605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-13	FB-2(LF)	Total/NA	Water	SM 2540C	
180-95639-14	EB-2(LF)	Total/NA	Water	SM 2540C	
MB 180-291605/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291605/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	SM 2540C	
180-95737-2	GWC-20	Total/NA	Water	SM 2540C	
MB 180-291934/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291934/1	Lab Control Sample	Total/NA	Water	SM 2540C	



Regulatory Program:  DW  NPDES  RCRA  Other:

**Client Contact**  
Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
JAbraham@southernco.com

**Project Name:** CCR - Plant Scherer Cell 1  
**Site:** Georgia  
**P O #** 18019884

**Project Manager:** Dawn Prell  
**Tel/Fax:** 248-536-5445

**Site Contact:** Karim Minkara  
**Lab Contact:** Veronica Bortot

**Date:** 9/11/2019  
**Carrier:**

**COC No.:** 1 of 1 COCs

**Sampler:**  
**For Lab Use Only:**  
**Walk-in Client:**  
**Lab Sampling:**  
**Job / SDG No.:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)		Perform MS / MSD (Y / N)		State Metals* 6020, 7470A: Appendix III Metals + Cl, F, SO4, TDS	Sample Specific Notes:
						Y	N	Y	N		
GWC-1	9/10/2019	1340	G	Water	2			X	X		
GWC-2	9/10/2019	1500	G	Water	2			X	X		
GWC-3	9/10/2019	1217	G	Water	2			X	X		
GWC-4	9/10/2019	1545	G	Water	2			X	X		
GWA-15	9/10/2019	1200	G	Water	2			X	X		
GWA-16	9/10/2019	1423	G	Water	2			X	X		
GWA-17	9/10/2019	1535	G	Water	2			X	X		
EB-1 (LF)	9/10/2019	1545	G	Water	2			X	X		
FB-1 (LF)	9/10/2019	1544	G	Water	2			X	X		
FD-1 (LF)	9/10/2019	--	G	Water	2			X	X		
						4	1				



**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
\*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

**Custody Seal No.:** \_\_\_\_\_  
**Relinquished by:** Kim M  
**Company:** Golic  
**Date/Time:** 4-11-19 7:50

**Received by:** Elaine Cook  
**Company:** Courier Now  
**Date/Time:** 9-11-19 09:49

**Relinquished by:** Elaine Cook  
**Company:** Courier Now  
**Date/Time:** 9-11-19 09:49

**Received by:** [Signature]  
**Company:** [Signature]  
**Date/Time:** 9-12-19 9:00

**Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019**





Regulatory Program:  DW  NPDES  RCRA  Other:

**Client Contact**  
Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
j.abraham@southernco.com

**Project Name:** CCR - Plant Scherer Cell 1  
**Site:** Georgia  
**P O #** 18019884

**Project Manager:** Dawn Prell  
**Tel/Fax:** 248-536-5445

**Analysis Turnaround Time**  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact:** Karim Minkara  
**Lab Contact:** Veronica Bortot

**Date:** 9/12/2019  
**Carrier:**

**COC No.:** 1 of 1 COCs

**Sampler:**  
**For Lab Use Only:**  
**Walk-in Client:**  
**Lab Sampling:**  
**Job / SDG No.:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:
						6020, 7470A: Appendix III Metals	C1, F, SO4, TDS	6020, 7470A: Appendix III Metals	C1, F, SO4, TDS	
GWC-5	9/11/2019	935	G	Water	2	X	X	X	X	
GWC-6	9/11/2019	1050	G	Water	2	X	X	X	X	
GWC-7	9/11/2019	1153	G	Water	2	X	X	X	X	
GWC-8A	9/11/2019	1055	G	Water	2	X	X	X	X	
GWC-9	9/11/2019	1300	G	Water	2	X	X	X	X	
GWC-10	9/11/2019	1550	G	Water	2	X	X	X	X	
GWC-11	9/11/2019	1430	G	Water	2	X	X	X	X	
GWC-12	9/11/2019	1300	G	Water	2	X	X	X	X	
GWC-13	9/11/2019	1412	G	Water	2	X	X	X	X	
GWC-14	9/11/2019	1435	G	Water	2	X	X	X	X	
GWC-18	9/11/2019	1312	G	Water	2	X	X	X	X	
FD-2 (LF)	9/11/2019	--	G	Water	2	X	X	X	X	
FB-2 (LF)	9/11/2019	1000	G	Water	2	X	X	X	X	
EB-2 (LF)	9/11/2019	1640	G	Water	2	X	X	X	X	
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other						4	1			

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
\*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

**Relinquished by:** *mm* **Company:** *Goldr* **Date/Time:** 9-12-19 7:45  
**Relinquished by:** *Blaine Cook* **Company:** *Cowier Now* **Date/Time:** 9-12-19 0939  
**Relinquished by:** *Blaine Cook* **Company:** *Blaine Cook* **Date/Time:** 9-13-19

**Custody Seal No.:** \_\_\_\_\_ **Therm ID No.:** \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ **Company:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ **Company:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_  
**Relinquished by:** \_\_\_\_\_ **Company:** \_\_\_\_\_ **Date/Time:** \_\_\_\_\_

**Form No. CA-C-WI-002, Rev. 4.20, dated 7/28/2019**





Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
j.abraham@southernco.com  
Project Name: CCR - Plant Scherer Cell 1  
Site: Georgia  
P O # 18019884

Site Contact: Karim Minkara  
Lab Contact: Veronica Bortot

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Date: 9/13/2019  
Carrier:

COC No.: 1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		State Metals*	CI, P, SO4, TDS	Sample Specific Notes:
						Y	N	Y	N			
GWC-19	9/12/2019	945	G	Water	2	X		X				
GWC-20	9/12/2019	1110	G	Water	2	X		X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_

Possible Hazard Identification: \_\_\_\_\_

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-hazard  Flammable  Skin Irritant

Poison B  Unknown

Special Instructions/QC Requirements & Comments: \_\_\_\_\_

\*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Therm ID No.: \_\_\_\_\_

Received by: \_\_\_\_\_ Company: 9-13-19  
Received by: Debra Wilson Company: AP, ITT  
Received in Laboratory by: \_\_\_\_\_

Custody Seal No.: \_\_\_\_\_

Relinquished by: J. C. C. Company: Golder  
Relinquished by: J. C. C. Company: 9-13-19  
Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Barcode: 180-95737 Chain of Custody



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95563**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95639**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95737**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**

# PAC ASH CELL

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95743-1

Laboratory Sample Delivery Group: PAC Ash Cell  
Client Project/Site: CCR - Plant Scherer

**For:**

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 1:58:04 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416





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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

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**Job ID: 180-95743-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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## Narrative

### Job Narrative 180-95743-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 3.4° C and 15.5° C.

#### Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: GWA-49 (180-95743-6), GWC-29 (180-95743-7), GWC-51 (180-95743-8), EB-1(PA) (180-95743-11), EB-2(PA) (180-95743-12), FD-1(PA) (180-95743-13), GWA-45 (180-95743-14) and FB-2(PA) (180-95743-17). There is a missing cooler from this shipment. The following samples were received 9/17/19.

The following samples were received at the laboratory outside the required temperature criteria: GWA-49 (180-95743-6), GWC-29 (180-95743-7), GWC-51 (180-95743-8), EB-1(PA) (180-95743-11), EB-2(PA) (180-95743-12), FD-1(PA) (180-95743-13), GWA-45 (180-95743-14) and FB-2(PA) (180-95743-17). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95743-1	GWA-21	Water	09/12/19 14:15	09/14/19 09:45	
180-95743-2	GWA-22	Water	09/12/19 13:10	09/14/19 09:45	
180-95743-3	GWA-47	Water	09/12/19 13:49	09/14/19 09:45	
180-95743-4	GWA-46	Water	09/12/19 15:17	09/14/19 09:45	
180-95743-5	GWA-48	Water	09/12/19 11:52	09/14/19 09:45	
180-95743-6	GWA-49	Water	09/12/19 13:55	09/14/19 09:45	
180-95743-7	GWC-29	Water	09/12/19 15:50	09/14/19 09:45	
180-95743-8	GWC-51	Water	09/12/19 14:50	09/14/19 09:45	
180-95743-9	GWC-52	Water	09/12/19 16:00	09/14/19 09:45	
180-95743-10	FB-1(PA)	Water	09/12/19 15:14	09/14/19 09:45	
180-95743-11	EB-1(PA)	Water	09/12/19 16:45	09/14/19 09:45	
180-95743-12	EB-2(PA)	Water	09/12/19 16:50	09/14/19 09:45	
180-95743-13	FD-1(PA)	Water	09/12/19 00:00	09/14/19 09:45	
180-95743-14	GWA-45	Water	09/12/19 09:08	09/14/19 09:45	
180-95743-15	GWC-53	Water	09/12/19 09:25	09/14/19 09:45	
180-95743-16	GWC-50	Water	09/12/19 10:40	09/14/19 09:45	
180-95743-17	FB-2(PA)	Water	09/12/19 08:58	09/14/19 09:45	
180-95743-18	FD-2(PA)	Water	09/12/19 00:00	09/14/19 09:45	

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-21**

**Date Collected: 09/12/19 14:15**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 19:53	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:21	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:57	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-22**

**Date Collected: 09/12/19 13:10**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:10	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:24	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-47**

**Date Collected: 09/12/19 13:49**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:25	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:28	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:01	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-46**

**Lab Sample ID: 180-95743-4**

**Date Collected: 09/12/19 15:17**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:41	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:31	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:04	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-95743-5**

**Date Collected: 09/12/19 11:52**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:56	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:05	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

**Date Collected: 09/12/19 13:55**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:11	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:45	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:06	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-95743-7**

**Date Collected: 09/12/19 15:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:26	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:48	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:06	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-51**

**Lab Sample ID: 180-95743-8**

**Date Collected: 09/12/19 14:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:42	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:51	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:07	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-95743-9**

**Date Collected: 09/12/19 16:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:57	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:55	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:08	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

**Date Collected: 09/12/19 15:14**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 23:12	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:58	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:09	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: EB-1(PA)**

**Lab Sample ID: 180-95743-11**

**Date Collected: 09/12/19 16:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 23:58	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:01	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:10	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: EB-2(PA)**

**Lab Sample ID: 180-95743-12**

**Date Collected: 09/12/19 16:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 00:14	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:05	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:11	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 00:29	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:08	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:12	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-95743-14**

**Date Collected: 09/12/19 09:08**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:15	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:15	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:12	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:15	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-53**

**Lab Sample ID: 180-95743-15**

**Date Collected: 09/12/19 09:25**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:30	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:16	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-53**

**Date Collected: 09/12/19 09:25**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-15**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: GWC-50**

**Date Collected: 09/12/19 10:40**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-16**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:45	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:25	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:17	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: FB-2(PA)**

**Date Collected: 09/12/19 08:58**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-17**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 02:01	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:28	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:18	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: FD-2(PA)**

**Date Collected: 09/12/19 00:00**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-18**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 02:16	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:45	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:32	RSK	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-2(PA)**

**Lab Sample ID: 180-95743-18**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:19	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

## Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

MJH = Matthew Hartman

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-21**  
Date Collected: 09/12/19 14:15  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.71	mg/L			09/22/19 19:53	1
Fluoride	0.040	J	0.10	0.026	mg/L			09/22/19 19:53	1
Sulfate	1.3		1.0	0.38	mg/L			09/22/19 19:53	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:21	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:21	1
Barium	0.025		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:21	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:21	1
Chromium	0.0047	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Cobalt	0.00040	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:21	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Nickel	0.00097	J	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:21	1
Vanadium	0.0031		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:21	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:21	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:21	1
Zinc	0.0046	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:21	1
Calcium	8.8		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:21	1
Boron	0.053		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:21	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 13:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-22**  
Date Collected: 09/12/19 13:10  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.71	mg/L			09/22/19 21:10	1
Fluoride	0.043	J	0.10	0.026	mg/L			09/22/19 21:10	1
Sulfate	0.38	J	1.0	0.38	mg/L			09/22/19 21:10	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:24	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:24	1
Barium	0.023		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:24	1
Chromium	0.0092	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:24	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-22**

**Lab Sample ID: 180-95743-2**

Date Collected: 09/12/19 13:10

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:24	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Vanadium</b>	<b>0.0025</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:24	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:24	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Zinc</b>	<b>0.0085</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Calcium</b>	<b>6.1</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:24	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:24	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>72</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-47**

**Lab Sample ID: 180-95743-3**

Date Collected: 09/12/19 13:49

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.4</b>		1.0	0.71	mg/L			09/22/19 21:25	1
<b>Fluoride</b>	<b>0.041</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 21:25	1
<b>Sulfate</b>	<b>0.40</b>	<b>J</b>	1.0	0.38	mg/L			09/22/19 21:25	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:28	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Barium</b>	<b>0.028</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:28	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Chromium</b>	<b>0.0088</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:28	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:28	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:28	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Vanadium</b>	<b>0.0075</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:28	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Zinc</b>	<b>0.0049</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:28	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:28	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-47**

**Lab Sample ID: 180-95743-3**

Date Collected: 09/12/19 13:49

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-46**

**Lab Sample ID: 180-95743-4**

Date Collected: 09/12/19 15:17

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			09/22/19 21:41	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 21:41	1
Sulfate	0.61	J	1.0	0.38	mg/L			09/22/19 21:41	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:31	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:31	1
Barium	0.022		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:31	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:31	1
Chromium	0.0051	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Cobalt	0.000095	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:31	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Nickel	0.00040	J	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:31	1
Vanadium	0.0033		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:31	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:31	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:31	1
Zinc	0.0091	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:31	1
Calcium	5.7		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:31	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:31	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-95743-5**

Date Collected: 09/12/19 11:52

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			09/22/19 21:56	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-95743-5**

Date Collected: 09/12/19 11:52

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.044	J	0.10	0.026	mg/L			09/22/19 21:56	1
Sulfate	1.2		1.0	0.38	mg/L			09/22/19 21:56	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:41	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:41	1
Barium	0.016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:41	1
Chromium	0.0085	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:41	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:41	1
Vanadium	0.019		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:41	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:41	1
Copper	0.00083	J	0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:41	1
Zinc	0.0048	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:41	1
Calcium	13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:41	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:41	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

Date Collected: 09/12/19 13:55

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/22/19 22:11	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/22/19 22:11	1
Sulfate	0.77	J	1.0	0.38	mg/L			09/22/19 22:11	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:45	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:45	1
Barium	0.022		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:45	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:45	1
Chromium	0.0075	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:45	1
Cobalt	0.00017	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:45	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

Date Collected: 09/12/19 13:55

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:45	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Nickel</b>	<b>0.00043</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Vanadium</b>	<b>0.020</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:45	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:45	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Zinc</b>	<b>0.0041</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:45	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:45	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-95743-7**

Date Collected: 09/12/19 15:50

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.0</b>		1.0	0.71	mg/L			09/22/19 22:26	1
<b>Fluoride</b>	<b>0.042</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 22:26	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			09/22/19 22:26	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:48	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Barium</b>	<b>0.019</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Chromium</b>	<b>0.0021</b>	<b>J B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Nickel</b>	<b>0.0035</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Vanadium</b>	<b>0.0054</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Zinc</b>	<b>0.0058</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:48	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:48	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:06	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-29**  
Date Collected: 09/12/19 15:50  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-51**  
Date Collected: 09/12/19 14:50  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8		1.0	0.71	mg/L			09/22/19 22:42	1
Fluoride	0.028	J	0.10	0.026	mg/L			09/22/19 22:42	1
Sulfate	0.65	J	1.0	0.38	mg/L			09/22/19 22:42	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:51	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:51	1
Barium	0.011		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:51	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:51	1
Chromium	0.0043	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Cobalt	0.00012	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:51	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Nickel	0.0019		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:51	1
Vanadium	0.0047		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:51	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:51	1
Zinc	0.0042	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:51	1
Calcium	7.1		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:51	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:51	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:07	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-52**  
Date Collected: 09/12/19 16:00  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			09/22/19 22:57	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/22/19 22:57	1
Sulfate	34		1.0	0.38	mg/L			09/22/19 22:57	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-95743-9**

Date Collected: 09/12/19 16:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:55	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Barium</b>	<b>0.017</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:55	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:55	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Chromium</b>	<b>0.027 B</b>		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:55	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Vanadium</b>	<b>0.011</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:55	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:55	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Zinc</b>	<b>0.0073 B</b>		0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Calcium</b>	<b>17</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:55	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:55	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>160</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

Date Collected: 09/12/19 15:14

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 23:12	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 23:12	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 23:12	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:58	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:58	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:58	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:58	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

Date Collected: 09/12/19 15:14

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:58	1
<b>Zinc</b>	<b>0.0042</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:58	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:58	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:58	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: EB-1(PA)**

**Lab Sample ID: 180-95743-11**

Date Collected: 09/12/19 16:45

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 23:58	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 23:58	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 23:58	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:01	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:01	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:01	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Chromium</b>	<b>0.040</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:01	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:01	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:01	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Nickel</b>	<b>0.00077</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:01	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:01	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Copper</b>	<b>0.0014</b>	<b>J</b>	0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Zinc</b>	<b>0.0046</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:01	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:01	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:01	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: EB-2(PA)**

**Lab Sample ID: 180-95743-12**

Date Collected: 09/12/19 16:50

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 00:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 00:14	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 00:14	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:05	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:05	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:05	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:05	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:05	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:05	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:05	1
<b>Zinc</b>	<b>0.0059</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:05	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:05	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:05	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>7.0</b>		1.0	0.71	mg/L			09/23/19 00:29	1
<b>Fluoride</b>	<b>0.030</b>	<b>J</b>	0.10	0.026	mg/L			09/23/19 00:29	1
<b>Sulfate</b>	<b>0.89</b>	<b>J</b>	1.0	0.38	mg/L			09/23/19 00:29	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:08	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Barium</b>	<b>0.010</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:08	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Chromium</b>	<b>0.0047</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:08	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:08	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:08	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Nickel</b>	<b>0.0020</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Vanadium</b>	<b>0.0046</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:08	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Zinc</b>	<b>0.0046</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Calcium</b>	<b>7.1</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:08	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:08	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-95743-14**

Date Collected: 09/12/19 09:08

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>10</b>		1.0	0.71	mg/L			09/23/19 01:15	1
<b>Fluoride</b>	<b>0.026</b>	<b>J</b>	0.10	0.026	mg/L			09/23/19 01:15	1
<b>Sulfate</b>	<b>170</b>		5.0	1.9	mg/L			09/23/19 12:15	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Barium</b>	<b>0.10</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:12	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Cobalt</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Nickel</b>	<b>0.00061</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:12	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Zinc</b>	<b>0.0095</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Calcium</b>	<b>36</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Boron</b>	<b>0.91</b>		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:12	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-45**  
Date Collected: 09/12/19 09:08  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-14**  
Matrix: Water

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-53**  
Date Collected: 09/12/19 09:25  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-15**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			09/23/19 01:30	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 01:30	1
Sulfate	170		5.0	1.9	mg/L			09/23/19 12:30	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:22	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:22	1
Barium	0.043		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:22	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:22	1
Chromium	0.0020	J B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Cobalt	0.011		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:22	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Nickel	0.0070		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:22	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:22	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:22	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:22	1
Zinc	0.020	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:22	1
Calcium	18		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:22	1
Boron	0.94		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:22	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: GWC-50**  
Date Collected: 09/12/19 10:40  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-16**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			09/23/19 01:45	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-50**  
Date Collected: 09/12/19 10:40  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-16**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.028	J	0.10	0.026	mg/L			09/23/19 01:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 01:45	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:25	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:25	1
Barium	0.013		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:25	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:25	1
Chromium	0.0060	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:25	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:25	1
Vanadium	0.0028		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:25	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:25	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:25	1
Zinc	0.0057	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:25	1
Calcium	7.5		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:25	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:25	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:17	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: FB-2(PA)**  
Date Collected: 09/12/19 08:58  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-17**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 02:01	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 02:01	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 02:01	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:28	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:28	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:28	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:28	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:28	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-2(PA)**

**Lab Sample ID: 180-95743-17**

Date Collected: 09/12/19 08:58

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:28	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:28	1
<b>Zinc</b>	<b>0.0056</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:28	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:28	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:28	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: FD-2(PA)**

**Lab Sample ID: 180-95743-18**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>12</b>		1.0	0.71	mg/L			09/23/19 02:16	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 02:16	1
<b>Sulfate</b>	<b>170</b>		5.0	1.9	mg/L			09/23/19 12:45	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:32	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Barium</b>	<b>0.041</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:32	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:32	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Cobalt</b>	<b>0.012</b>		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:32	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:32	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Nickel</b>	<b>0.0067</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:32	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Zinc</b>	<b>0.019</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Calcium</b>	<b>18</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Boron</b>	<b>0.91</b>		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:32	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:19	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-2(PA)**  
Date Collected: 09/12/19 00:00  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-18**  
Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			09/19/19 15:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292202/37**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 19:38	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 19:38	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 19:38	1

**Lab Sample ID: LCS 180-292202/36**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.3		mg/L		93	90 - 110
Fluoride	1.25	1.21		mg/L		97	90 - 110
Sulfate	25.0	23.1		mg/L		92	90 - 110

**Lab Sample ID: 180-95743-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.4		25.0	29.5		mg/L		104	80 - 120
Fluoride	0.040	J	1.25	1.38		mg/L		107	80 - 120
Sulfate	1.3		25.0	27.4		mg/L		104	80 - 120

**Lab Sample ID: 180-95743-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.4		25.0	29.2		mg/L		103	80 - 120	1	20
Fluoride	0.040	J	1.25	1.37		mg/L		106	80 - 120	1	20
Sulfate	1.3		25.0	27.1		mg/L		103	80 - 120	1	20

**Lab Sample ID: 180-95743-13 MS**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: FD-1(PA)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.0		25.0	33.3		mg/L		105	80 - 120
Fluoride	0.030	J	1.25	1.38		mg/L		108	80 - 120
Sulfate	0.89	J	25.0	27.5		mg/L		106	80 - 120

**Lab Sample ID: 180-95743-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: FD-1(PA)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.0		25.0	33.0		mg/L		104	80 - 120	1	20
Fluoride	0.030	J	1.25	1.36		mg/L		107	80 - 120	1	20
Sulfate	0.89	J	25.0	26.8		mg/L		104	80 - 120	2	20

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-292226/6**  
**Matrix: Water**  
**Analysis Batch: 292226**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 07:45	1

**Lab Sample ID: LCS 180-292226/5**  
**Matrix: Water**  
**Analysis Batch: 292226**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	25.0	24.9		mg/L		99	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292485/1-A**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 20:47	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 20:47	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 20:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Chromium	0.00153	J	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 20:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 20:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 20:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 20:47	1
Zinc	0.00348	J	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 20:47	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 20:47	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 20:47	1

**Lab Sample ID: LCS 180-292485/2-A**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.283		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.09		mg/L		109	80 - 120
Beryllium	0.500	0.529		mg/L		106	80 - 120
Cadmium	0.500	0.535		mg/L		107	80 - 120
Chromium	0.500	0.540		mg/L		108	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.529		mg/L		106	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-292485/2-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 292485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.500		mg/L		100	80 - 120
Vanadium	0.500	0.542		mg/L		108	80 - 120
Silver	0.250	0.290		mg/L		116	80 - 120
Copper	0.500	0.491		mg/L		98	80 - 120
Zinc	0.250	0.277		mg/L		111	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293528/1-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 13:55	1

Lab Sample ID: LCS 180-293528/2-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

Lab Sample ID: 180-95743-1 MS  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: GWA-21  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00010		0.00100	0.00103		mg/L		103	75 - 125

Lab Sample ID: 180-95743-1 MSD  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: GWA-21  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00103		mg/L		103	75 - 125	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-291935/2  
Matrix: Water  
Analysis Batch: 291935

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

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# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-291935/1**  
**Matrix: Water**  
**Analysis Batch: 291935**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	600		mg/L		95	80 - 120

**Lab Sample ID: MB 180-291983/2**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 15:51	1

**Lab Sample ID: LCS 180-291983/1**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	596		mg/L		94	80 - 120

**Lab Sample ID: 180-95743-15 DU**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		302		mg/L		1	10

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## HPLC/IC

### Analysis Batch: 292202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-2	GWA-22	Total/NA	Water	EPA 300.0 R2.1	
180-95743-3	GWA-47	Total/NA	Water	EPA 300.0 R2.1	
180-95743-4	GWA-46	Total/NA	Water	EPA 300.0 R2.1	
180-95743-5	GWA-48	Total/NA	Water	EPA 300.0 R2.1	
180-95743-6	GWA-49	Total/NA	Water	EPA 300.0 R2.1	
180-95743-7	GWC-29	Total/NA	Water	EPA 300.0 R2.1	
180-95743-8	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-95743-9	GWC-52	Total/NA	Water	EPA 300.0 R2.1	
180-95743-10	FB-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-11	EB-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-12	EB-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-14	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-95743-15	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-95743-16	GWC-50	Total/NA	Water	EPA 300.0 R2.1	
180-95743-17	FB-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292202/37	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292202/36	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95743-1 MS	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-1 MSD	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13 MS	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13 MSD	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-14	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-95743-15	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292226/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292226/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 292485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total Recoverable	Water	3005A	
180-95743-2	GWA-22	Total Recoverable	Water	3005A	
180-95743-3	GWA-47	Total Recoverable	Water	3005A	
180-95743-4	GWA-46	Total Recoverable	Water	3005A	
180-95743-5	GWA-48	Total Recoverable	Water	3005A	
180-95743-6	GWA-49	Total Recoverable	Water	3005A	
180-95743-7	GWC-29	Total Recoverable	Water	3005A	
180-95743-8	GWC-51	Total Recoverable	Water	3005A	
180-95743-9	GWC-52	Total Recoverable	Water	3005A	
180-95743-10	FB-1(PA)	Total Recoverable	Water	3005A	
180-95743-11	EB-1(PA)	Total Recoverable	Water	3005A	
180-95743-12	EB-2(PA)	Total Recoverable	Water	3005A	
180-95743-13	FD-1(PA)	Total Recoverable	Water	3005A	
180-95743-14	GWA-45	Total Recoverable	Water	3005A	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Metals (Continued)

### Prep Batch: 292485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-15	GWC-53	Total Recoverable	Water	3005A	
180-95743-16	GWC-50	Total Recoverable	Water	3005A	
180-95743-17	FB-2(PA)	Total Recoverable	Water	3005A	
180-95743-18	FD-2(PA)	Total Recoverable	Water	3005A	
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 293528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	7470A	
180-95743-2	GWA-22	Total/NA	Water	7470A	
180-95743-3	GWA-47	Total/NA	Water	7470A	
180-95743-4	GWA-46	Total/NA	Water	7470A	
180-95743-5	GWA-48	Total/NA	Water	7470A	
180-95743-6	GWA-49	Total/NA	Water	7470A	
180-95743-7	GWC-29	Total/NA	Water	7470A	
180-95743-8	GWC-51	Total/NA	Water	7470A	
180-95743-9	GWC-52	Total/NA	Water	7470A	
180-95743-10	FB-1(PA)	Total/NA	Water	7470A	
180-95743-11	EB-1(PA)	Total/NA	Water	7470A	
180-95743-12	EB-2(PA)	Total/NA	Water	7470A	
180-95743-13	FD-1(PA)	Total/NA	Water	7470A	
180-95743-14	GWA-45	Total/NA	Water	7470A	
180-95743-15	GWC-53	Total/NA	Water	7470A	
180-95743-16	GWC-50	Total/NA	Water	7470A	
180-95743-17	FB-2(PA)	Total/NA	Water	7470A	
180-95743-18	FD-2(PA)	Total/NA	Water	7470A	
MB 180-293528/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293528/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95743-1 MS	GWA-21	Total/NA	Water	7470A	
180-95743-1 MSD	GWA-21	Total/NA	Water	7470A	

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	EPA 7470A	293528
180-95743-2	GWA-22	Total/NA	Water	EPA 7470A	293528
180-95743-3	GWA-47	Total/NA	Water	EPA 7470A	293528
180-95743-4	GWA-46	Total/NA	Water	EPA 7470A	293528
180-95743-5	GWA-48	Total/NA	Water	EPA 7470A	293528
180-95743-6	GWA-49	Total/NA	Water	EPA 7470A	293528
180-95743-7	GWC-29	Total/NA	Water	EPA 7470A	293528
180-95743-8	GWC-51	Total/NA	Water	EPA 7470A	293528
180-95743-9	GWC-52	Total/NA	Water	EPA 7470A	293528
180-95743-10	FB-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-11	EB-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-12	EB-2(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-13	FD-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-14	GWA-45	Total/NA	Water	EPA 7470A	293528
180-95743-15	GWC-53	Total/NA	Water	EPA 7470A	293528
180-95743-16	GWC-50	Total/NA	Water	EPA 7470A	293528
180-95743-17	FB-2(PA)	Total/NA	Water	EPA 7470A	293528

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Metals (Continued)

### Analysis Batch: 293683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 7470A	293528
MB 180-293528/1-A	Method Blank	Total/NA	Water	EPA 7470A	293528
LCS 180-293528/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293528
180-95743-1 MS	GWA-21	Total/NA	Water	EPA 7470A	293528
180-95743-1 MSD	GWA-21	Total/NA	Water	EPA 7470A	293528

### Analysis Batch: 294986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total Recoverable	Water	EPA 6020	292485
180-95743-2	GWA-22	Total Recoverable	Water	EPA 6020	292485
180-95743-3	GWA-47	Total Recoverable	Water	EPA 6020	292485
180-95743-4	GWA-46	Total Recoverable	Water	EPA 6020	292485
180-95743-5	GWA-48	Total Recoverable	Water	EPA 6020	292485
180-95743-6	GWA-49	Total Recoverable	Water	EPA 6020	292485
180-95743-7	GWC-29	Total Recoverable	Water	EPA 6020	292485
180-95743-8	GWC-51	Total Recoverable	Water	EPA 6020	292485
180-95743-9	GWC-52	Total Recoverable	Water	EPA 6020	292485
180-95743-10	FB-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-11	EB-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-12	EB-2(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-13	FD-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-14	GWA-45	Total Recoverable	Water	EPA 6020	292485
180-95743-15	GWC-53	Total Recoverable	Water	EPA 6020	292485
180-95743-16	GWC-50	Total Recoverable	Water	EPA 6020	292485
180-95743-17	FB-2(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-18	FD-2(PA)	Total Recoverable	Water	EPA 6020	292485
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292485
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292485

## General Chemistry

### Analysis Batch: 291935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	SM 2540C	
180-95743-2	GWA-22	Total/NA	Water	SM 2540C	
180-95743-3	GWA-47	Total/NA	Water	SM 2540C	
180-95743-4	GWA-46	Total/NA	Water	SM 2540C	
180-95743-5	GWA-48	Total/NA	Water	SM 2540C	
180-95743-6	GWA-49	Total/NA	Water	SM 2540C	
180-95743-7	GWC-29	Total/NA	Water	SM 2540C	
180-95743-8	GWC-51	Total/NA	Water	SM 2540C	
180-95743-9	GWC-52	Total/NA	Water	SM 2540C	
180-95743-10	FB-1(PA)	Total/NA	Water	SM 2540C	
180-95743-11	EB-1(PA)	Total/NA	Water	SM 2540C	
180-95743-12	EB-2(PA)	Total/NA	Water	SM 2540C	
180-95743-13	FD-1(PA)	Total/NA	Water	SM 2540C	
180-95743-14	GWA-45	Total/NA	Water	SM 2540C	
MB 180-291935/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291935/1	Lab Control Sample	Total/NA	Water	SM 2540C	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## General Chemistry

### Analysis Batch: 291983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-15	GWC-53	Total/NA	Water	SM 2540C	
180-95743-16	GWC-50	Total/NA	Water	SM 2540C	
180-95743-17	FB-2(PA)	Total/NA	Water	SM 2540C	
180-95743-18	FD-2(PA)	Total/NA	Water	SM 2540C	
MB 180-291983/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291983/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95743-15 DU	GWC-53	Total/NA	Water	SM 2540C	



**Client Contact**  
 Joju Abraham  
 Southern Company  
 241 Ralph McGill Blvd SE B10186  
 Atlanta, GA 30308  
 jAbraham@southernco.com  
 Project Name: CCR - Plant Scherer PAC Ash Cell  
 Site: Georgia  
 P.O. # 18019684

**Project Manager: Dawn Prell**  
 Tel/Fax: 248-536-5445

**Analysis Turnaround Time**  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact: Karim Minkara**  
**Lab Contact: Veronica Bortot**

**Date: 9/13/2019**  
**Carrier:**

**COC No:** 1 of 2 COCs

**Sampler:**

**For Lab Use Only:**

**Walk-in Client:**

**Lab Sampling:**

**Job / SDG No.:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	State Metals* 6020, 7470A: Appendix III Metals +	CI, F, SO4, TDS	Sample Specific Notes:
GWA-21	9/12/2019	1415	G	Water	2			X	X	
GWA-22	9/12/2019	1310	G	Water	2			X	X	
GWA-47	9/12/2019	1349	G	Water	2			X	X	
GWA-46	9/12/2019	1517	G	Water	2			X	X	
GWA-48	9/12/2019	1152	G	Water	2			X	X	
GWA-49	9/12/2019	1355	G	Water	2			X	X	
GWC-29	9/12/2019	1550	G	Water	2			X	X	
GWC-51	9/12/2019	1450	G	Water	2			X	X	
GWC-52	9/12/2019	1600	G	Water	2			X	X	
FB-1 (PA)	9/12/2019	1514	G	Water	2			X	X	
EB-1 (PA)	9/12/2019	1645	G	Water	2			X	X	
EB-2 (PA)	9/12/2019	1650	G	Water	2			X	X	
FD-1 (PA)	9/12/2019	--	G	Water	2			X	X	
						4	1			



**Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other**

**Possible Hazard Identification:**  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  
 Poison B  Unknown

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
 \*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

**Custody Seal No.:**

**Relinquished by:** *[Signature]*  Yes  No

**Relinquished by:** *[Signature]*  Yes  No

**Relinquished by:** *[Signature]*  Yes  No

**Company:** *[Signature]* **Date/Time:** 9-13-19 1341

**Company:** *[Signature]* **Date/Time:** 9-13-19 1341

**Company:** *[Signature]* **Date/Time:** 9-13-19 1341

**Received by:** *[Signature]* **Date/Time:** 9-13-19 1325

**Received by:** *[Signature]* **Date/Time:** 9-13-19 1341

**Received in Laboratory by:** *[Signature]* **Date/Time:** 9-13-19 1341

**Therm ID No.:**

**Company:** *[Signature]* **Date/Time:** 9-13-19 1325

**Company:** *[Signature]* **Date/Time:** 9-13-19 1341

**Company:** *[Signature]* **Date/Time:** 9-13-19 1341





Client Contact  
 Joju Abraham  
 Southern Company  
 241 Ralph McGill Blvd SE B10185  
 Atlanta, GA 30308  
 jAbraham@southernco.com  
 Project Name: CCR - Plant Scherer PAC Ash Cell  
 Site: Georgia  
 P O # 18019884

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
9/12/2019	908	G	Water	2
9/12/2019	0925	G	Water	2
9/12/2019	1040	G	Water	2
9/12/2019	0858	G	Water	2
9/12/2019	--	G	Water	2

Sample Identification	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	State Metals* 6020, 7470A: Appendix III Metals +	CI, F, SO4, TDS
GWA-45			X	X
GWC-53			X	X
GWC-50			X	X
FB-2 (PA)			X	X
FD-2 (PA)			X	X

Sample Specific Notes:

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_  
 Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:  
 \*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Received by: *66666*  
 Date/Time: 9-13-19  
 Received by: *Dianne Watson*  
 Date/Time: 9-14-19  
 Received in Laboratory by: *AFIT*  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by: *66666*  
 Date/Time: 9-13-19  
 Received by: *Dianne Watson*  
 Date/Time: 9-14-19  
 Received in Laboratory by: *AFIT*  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Custody Seal Intact:  Yes  No  
 Relinquished by: *66666*  
 Relinquished by: *66666*  
 Relinquished by: *66666*

Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Therm ID No.: \_\_\_\_\_  
 Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Cor'd: \_\_\_\_\_

Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

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 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_





180-95743 Waybill

INS

Environment Testing  
TestAmerica

Part # 159469-434 RIT2 EXP 05/20

*Handwritten:* Done at 9/16/19 8/30

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

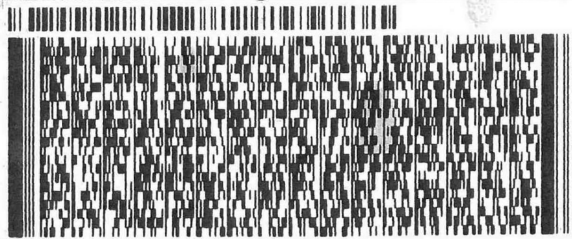
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 13SEP19  
ACTWGT: 55.50 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238**

(412) 963-7066  
REF: GOLDER



FedEx  
Express



JFO1/PUBR/1J155

4 of 4

MPS# 4651 0083 6596  
0269  
Mstr# 4651 0083 6563

0201

**SATURDAY 12:00P  
PRIORITY OVERNIGHT**

**XO AGCA**

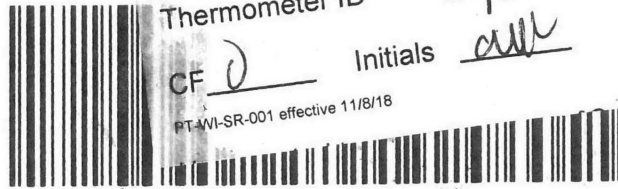
**15238  
PIT**

Uncorrected temp  
Thermometer ID

*Handwritten:* 15.5  
10  
DA °C

CF D Initials all

PT-WI-SR-001 effective 11/8/18



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## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95743-1  
SDG Number: PAC Ash Cell

**Login Number: 95743**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95743-1  
SDG Number: PAC Ash Cell

**Login Number: 95743**

**List Number: 2**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**  
**SURFACE WATER**



## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95740-1

Laboratory Sample Delivery Group: Surface Water  
Client Project/Site: CCR - Plant Scherer

**For:**

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 1:39:43 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416





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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

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**Job ID: 180-95740-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative  
180-95740-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 3.4° C and 5.5° C.

**GC Semi VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Metals**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### General Chemistry

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
 SDG: Surface Water

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95740-1	SWA-2	Water	09/12/19 11:00	09/14/19 09:45	
180-95740-2	SWA-3	Water	09/12/19 10:45	09/14/19 09:45	
180-95740-3	SWC-4	Water	09/12/19 09:05	09/14/19 09:45	
180-95740-4	SWC-5	Water	09/12/19 09:20	09/14/19 09:45	
180-95740-5	SWC-6	Water	09/12/19 10:05	09/14/19 09:45	
180-95740-6	SWC-7	Water	09/12/19 09:55	09/14/19 09:45	
180-95740-7	SWC-8	Water	09/12/19 10:30	09/14/19 09:45	

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
EPA 410.4	COD	MCAWW	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	TAL PIT
SM 4500CN E	Total Cyanide	SM	TAL PIT
SM 5310C	Total Organic Carbon	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
410.4	COD	MCAWW	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT
SM 4500 CN C	Cyanide, Distillation	SM	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWA-2**  
**Date Collected: 09/12/19 11:00**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 19:07	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292203	09/22/19 19:22	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:52	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:40	RJR	TAL PIT
Total/NA	Prep	410.4			1.0 mL	1.0 mL	292703	09/24/19 13:20	CLL	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10		1	1.0 mL	1.0 mL	292717	09/26/19 07:34	CLL	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292667	09/26/19 14:22	MTW	TAL PIT
Total/NA	Prep	SM 4500 CN C			6 mL	6 mL	292460	09/24/19 13:24	BSH	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL2		1			292605	09/24/19 21:20	BSH	TAL PIT
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:11	CLL	TAL PIT

**Client Sample ID: SWA-3**  
**Date Collected: 09/12/19 10:45**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 19:36	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:56	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:41	RJR	TAL PIT
Total/NA	Prep	410.4			1.0 mL	1.0 mL	292703	09/24/19 13:20	CLL	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10		1	1.0 mL	1.0 mL	292717	09/26/19 07:34	CLL	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292667	09/26/19 14:24	MTW	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWA-3**

**Date Collected: 09/12/19 10:45**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 CN C			6 mL	6 mL	292460	09/24/19 13:24	BSH	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL2		1			292605	09/24/19 21:22	BSH	TAL PIT
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			293568	10/02/19 15:26	CLL	TAL PIT

**Client Sample ID: SWC-4**

**Date Collected: 09/12/19 09:05**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 19:51	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292203	09/22/19 20:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:59	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:42	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292667	09/26/19 14:28	MTW	TAL PIT

**Client Sample ID: SWC-5**

**Date Collected: 09/12/19 09:20**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 20:21	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 18:03	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292667	09/26/19 14:30	MTW	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-6**

**Date Collected: 09/12/19 10:05**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 20:51	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 18:13	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:44	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292808	09/27/19 08:54	MTW	TAL PIT

**Client Sample ID: SWC-7**

**Date Collected: 09/12/19 09:55**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95740-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 21:06	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:04	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:45	RJR	TAL PIT
Total/NA	Prep	410.4			1 mL	1 mL	291657	09/17/19 10:37	ELS	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10S		1	1 mL	1 mL	291677	09/17/19 10:37	ELS	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292808	09/27/19 08:56	MTW	TAL PIT
Total/NA	Prep	SM 4500 CN C			6 mL	6 mL	292460	09/24/19 13:24	BSH	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL2		1			292605	09/24/19 21:24	BSH	TAL PIT
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			292877	09/26/19 15:12	CLL	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-95740-7**

**Date Collected: 09/12/19 10:30**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 22:06	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		10			292203	09/22/19 22:21	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:17	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:46	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			292808	09/27/19 08:58	MTW	TAL PIT

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: TAL PIT

Batch Type: Prep

- BSH = Brandon Hough
- CLL = Cheryl Loheyde
- ELS = Edwin Shireman
- NAM = Nicole Marfisi

Batch Type: Analysis

- AVS = Abbey Smith
- BSH = Brandon Hough
- CLL = Cheryl Loheyde
- CMR = Carl Reagle
- ELS = Edwin Shireman
- MTW = Michael Wesoloski
- RJR = Ron Rosenbaum
- RSK = Robert Kurtz
- WTR = Bill Reinheimer

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWA-2**  
Date Collected: 09/12/19 11:00  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-1**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			09/22/19 19:07	1
Fluoride	0.054	J	0.10	0.026	mg/L			09/22/19 19:07	1
Sulfate	390		10	3.8	mg/L			09/22/19 19:22	10

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:52	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:52	1
Barium	0.094		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:52	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:52	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:52	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:52	1
Cobalt	0.0018	J	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:52	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:52	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:52	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:52	1
Calcium	62		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:52	1
Boron	2.1		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:52	1
Nickel	0.00064	J	0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:52	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:52	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:52	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 17:52	1
Zinc	0.0043	J	0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:52	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:40	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	32		10	9.1	mg/L		09/24/19 13:20	09/26/19 07:34	1
Total Dissolved Solids	620		10	10	mg/L			09/19/19 12:24	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		09/24/19 13:24	09/24/19 21:20	1
Total Organic Carbon - Duplicates	1.8		1.0	0.51	mg/L			10/02/19 15:11	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6	HF	0.1	0.1	SU			09/26/19 14:22	1

**Client Sample ID: SWA-3**  
Date Collected: 09/12/19 10:45  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-2**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.71	mg/L			09/22/19 19:36	1
Fluoride	0.033	J	0.10	0.026	mg/L			09/22/19 19:36	1
Sulfate	48		1.0	0.38	mg/L			09/22/19 19:36	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:56	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:56	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWA-3**  
Date Collected: 09/12/19 10:45  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-2**  
Matrix: Water

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.036</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:56	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:56	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Chromium</b>	<b>0.0020</b>	<b>J</b>	0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Cobalt</b>	<b>0.00083</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:56	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:56	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:56	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Calcium</b>	<b>15</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Boron</b>	<b>0.38</b>		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Nickel</b>	<b>0.00068</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:56	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:56	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 17:56	1
<b>Zinc</b>	<b>0.0054</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:56	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:41	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chemical Oxygen Demand</b>	<b>22</b>		10	9.1	mg/L		09/24/19 13:20	09/26/19 07:34	1
<b>Total Dissolved Solids</b>	<b>110</b>		10	10	mg/L			09/19/19 12:24	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		09/24/19 13:24	09/24/19 21:22	1
<b>Total Organic Carbon - Duplicates</b>	<b>0.89</b>	<b>J</b>	1.0	0.51	mg/L			10/02/19 15:26	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.5</b>	<b>HF</b>	0.1	0.1	SU			09/26/19 14:24	1

**Client Sample ID: SWC-4**  
Date Collected: 09/12/19 09:05  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-3**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>5.4</b>		1.0	0.71	mg/L			09/22/19 19:51	1
<b>Fluoride</b>	<b>0.049</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 19:51	1
<b>Sulfate</b>	<b>77</b>		10	3.8	mg/L			09/22/19 20:06	10

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:59	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Barium</b>	<b>0.046</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:59	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:59	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:59	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Cobalt</b>	<b>0.00064</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:59	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:59	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:59	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-4**  
Date Collected: 09/12/19 09:05  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-3**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Calcium</b>	<b>25</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Boron</b>	<b>0.58</b>		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:59	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Vanadium</b>	<b>0.0018</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:59	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:59	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 17:59	1
<b>Zinc</b>	<b>0.0047</b>	<b>J</b>	0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:59	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>250</b>		10	10	mg/L			09/19/19 12:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.6</b>	<b>HF</b>	0.1	0.1	SU			09/26/19 14:28	1

**Client Sample ID: SWC-5**  
Date Collected: 09/12/19 09:20  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.9</b>		1.0	0.71	mg/L			09/22/19 20:21	1
<b>Fluoride</b>	<b>0.13</b>		0.10	0.026	mg/L			09/22/19 20:21	1
<b>Sulfate</b>	<b>38</b>		1.0	0.38	mg/L			09/22/19 20:21	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 18:03	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Barium</b>	<b>0.045</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 18:03	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 18:03	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Chromium</b>	<b>0.0037</b>		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Cobalt</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Lead</b>	<b>0.00024</b>	<b>J</b>	0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Selenium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 18:03	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Calcium</b>	<b>33</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Boron</b>	<b>0.057</b>		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Nickel</b>	<b>0.00055</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Vanadium</b>	<b>0.0076</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 18:03	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Copper</b>	<b>0.0012</b>	<b>J</b>	0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 18:03	1
<b>Zinc</b>	<b>0.0047</b>	<b>J</b>	0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 18:03	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-5**  
Date Collected: 09/12/19 09:20  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-4**  
Matrix: Water

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>250</b>		10	10	mg/L			09/19/19 12:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.2</b>	<b>HF</b>	0.1	0.1	SU			09/26/19 14:30	1

**Client Sample ID: SWC-6**  
Date Collected: 09/12/19 10:05  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95740-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.71	mg/L			09/22/19 20:51	1
<b>Fluoride</b>	<b>0.063</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 20:51	1
<b>Sulfate</b>	<b>0.82</b>	<b>J</b>	1.0	0.38	mg/L			09/22/19 20:51	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 18:13	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Barium</b>	<b>0.023</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 18:13	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 18:13	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Chromium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Cobalt</b>	<b>0.00067</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 18:13	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 18:13	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 18:13	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Calcium</b>	<b>15</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 18:13	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 18:13	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Vanadium</b>	<b>0.0032</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 18:13	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 18:13	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 18:13	1
<b>Zinc</b>	<b>0.0042</b>	<b>J</b>	0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 18:13	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			09/19/19 12:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.8</b>	<b>HF</b>	0.1	0.1	SU			09/27/19 08:54	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-7**

**Lab Sample ID: 180-95740-6**

Date Collected: 09/12/19 09:55

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.0		1.0	0.71	mg/L			09/22/19 21:06	1
Fluoride	0.13		0.10	0.026	mg/L			09/22/19 21:06	1
Sulfate	65		1.0	0.38	mg/L			09/22/19 21:06	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:04	1
Arsenic	0.00049	J	0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:04	1
Barium	0.059		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:04	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:04	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:04	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:04	1
Cobalt	0.00046	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:04	1
Lead	0.00014	J	0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:04	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:04	1
Thallium	0.00020	J	0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:04	1
Calcium	25		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:04	1
Boron	0.43		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:04	1
Nickel	0.00050	J	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:04	1
Vanadium	0.0034		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:04	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:04	1
Copper	0.0010	J	0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:04	1
Zinc	0.0037	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:04	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		09/17/19 10:37	09/17/19 10:37	1
Total Dissolved Solids	220		10	10	mg/L			09/19/19 12:28	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		09/24/19 13:24	09/24/19 21:24	1
Total Organic Carbon - Duplicates	2.1	^	1.0	0.51	mg/L			09/26/19 15:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7	HF	0.1	0.1	SU			09/27/19 08:56	1

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-95740-7**

Date Collected: 09/12/19 10:30

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.4		1.0	0.71	mg/L			09/22/19 22:06	1
Fluoride	0.050	J	0.10	0.026	mg/L			09/22/19 22:06	1
Sulfate	170		10	3.8	mg/L			09/22/19 22:21	10

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:17	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:17	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

**Client Sample ID: SWC-8**

**Lab Sample ID: 180-95740-7**

Date Collected: 09/12/19 10:30

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Barium</b>	<b>0.063</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:17	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:17	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Chromium</b>	<b>0.0015</b>	<b>J B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Cobalt</b>	<b>0.0014</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:17	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Thallium</b>	<b>0.00023</b>	<b>J</b>	0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Calcium</b>	<b>34</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Boron</b>	<b>1.1</b>		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Nickel</b>	<b>0.00042</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Vanadium</b>	<b>0.0014</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:17	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:17	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:17	1
<b>Zinc</b>	<b>0.0037</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:17	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>370</b>		10	10	mg/L			09/19/19 12:28	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.3</b>	<b>HF</b>	0.1	0.1	SU			09/27/19 08:58	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292203/15**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 15:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:23	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 15:23	1

**Lab Sample ID: LCS 180-292203/5**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	24.4		mg/L		98	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292485/1-A**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 20:47	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 20:47	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 20:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Chromium	0.00153	J	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 20:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 20:47	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 20:47	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 20:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 20:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 20:47	1
Zinc	0.00348	J	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 20:47	1

**Lab Sample ID: LCS 180-292485/2-A**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.283		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.09		mg/L		109	80 - 120
Beryllium	0.500	0.529		mg/L		106	80 - 120
Cadmium	0.500	0.535		mg/L		107	80 - 120
Chromium	0.500	0.540		mg/L		108	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-292485/2-A**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.529		mg/L		106	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120
Nickel	0.500	0.500		mg/L		100	80 - 120
Vanadium	0.500	0.542		mg/L		108	80 - 120
Silver	0.250	0.290		mg/L		116	80 - 120
Copper	0.500	0.491		mg/L		98	80 - 120
Zinc	0.250	0.277		mg/L		111	80 - 120

**Lab Sample ID: 180-95740-6 MS**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: SWC-7**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.00038		0.250	0.285		mg/L		114	75 - 125
Arsenic	0.00049	J	1.00	0.998		mg/L		100	75 - 125
Barium	0.059		1.00	1.16		mg/L		110	75 - 125
Beryllium	<0.00018		0.500	0.522		mg/L		104	75 - 125
Cadmium	<0.00013		0.500	0.540		mg/L		108	75 - 125
Chromium	<0.0015		0.500	0.537		mg/L		107	75 - 125
Cobalt	0.00046	J	0.500	0.497		mg/L		99	75 - 125
Lead	0.00014	J	0.500	0.529		mg/L		106	75 - 125
Selenium	<0.0015		1.00	1.06		mg/L		106	75 - 125
Thallium	0.00020	J	1.00	1.09		mg/L		109	75 - 125
Calcium	25		25.0	51.1		mg/L		106	75 - 125
Boron	0.43		1.25	1.72		mg/L		103	75 - 125
Nickel	0.00050	J	0.500	0.495		mg/L		99	75 - 125
Vanadium	0.0034		0.500	0.545		mg/L		108	75 - 125
Silver	<0.00018		0.250	0.290		mg/L		116	75 - 125
Copper	0.0010	J	0.500	0.490		mg/L		98	75 - 125
Zinc	0.0037	J B	0.250	0.269		mg/L		106	75 - 125

**Lab Sample ID: 180-95740-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: SWC-7**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.00038		0.250	0.287		mg/L		115	75 - 125	1	20
Arsenic	0.00049	J	1.00	1.01		mg/L		101	75 - 125	1	20
Barium	0.059		1.00	1.18		mg/L		112	75 - 125	2	20
Beryllium	<0.00018		0.500	0.526		mg/L		105	75 - 125	1	20
Cadmium	<0.00013		0.500	0.540		mg/L		108	75 - 125	0	20
Chromium	<0.0015		0.500	0.563		mg/L		113	75 - 125	5	20
Cobalt	0.00046	J	0.500	0.494		mg/L		99	75 - 125	0	20
Lead	0.00014	J	0.500	0.541		mg/L		108	75 - 125	2	20
Selenium	<0.0015		1.00	1.09		mg/L		109	75 - 125	3	20

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: 180-95740-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 294986**

**Client Sample ID: SWC-7**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Thallium	0.00020	J	1.00	1.09		mg/L		109	75 - 125	1	20
Calcium	25		25.0	51.8		mg/L		109	75 - 125	1	20
Boron	0.43		1.25	1.75		mg/L		105	75 - 125	2	20
Nickel	0.00050	J	0.500	0.499		mg/L		100	75 - 125	1	20
Vanadium	0.0034		0.500	0.548		mg/L		109	75 - 125	1	20
Silver	<0.00018		0.250	0.294		mg/L		118	75 - 125	2	20
Copper	0.0010	J	0.500	0.498		mg/L		99	75 - 125	2	20
Zinc	0.0037	J B	0.250	0.277		mg/L		109	75 - 125	3	20

**Lab Sample ID: MB 180-292487/1-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 16:38	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 16:38	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 16:38	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 16:38	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:38	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:33	09/27/19 16:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:38	1

**Lab Sample ID: LCS 180-292487/2-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.526		mg/L		105	80 - 120
Selenium	1.00	1.08		mg/L		108	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120
Boron	1.25	1.18		mg/L		95	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-292487/2-A  
Matrix: Water  
Analysis Batch: 293025

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 292487

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.489		mg/L		98	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Silver	0.250	0.253		mg/L		101	80 - 120
Copper	0.500	0.523		mg/L		105	80 - 120
Zinc	0.250	0.289		mg/L		116	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293530/1-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 293530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:26	1

Lab Sample ID: LCS 180-293530/2-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

## Method: EPA 410.4 - COD

Lab Sample ID: MB 180-291657/60-A  
Matrix: Water  
Analysis Batch: 291677

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 291657

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		09/17/19 10:37	09/17/19 10:37	1

Lab Sample ID: LCS 180-291657/59-A  
Matrix: Water  
Analysis Batch: 291677

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 291657

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	95.7		mg/L		96	90 - 110

Lab Sample ID: MB 180-292703/12-A  
Matrix: Water  
Analysis Batch: 292717

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 292703

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		09/24/19 13:20	09/26/19 07:34	1

Lab Sample ID: LCS 180-292703/11-A  
Matrix: Water  
Analysis Batch: 292717

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 292703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	105		mg/L		105	90 - 110

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: EPA 410.4 - COD

**Lab Sample ID: 180-95740-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292717**

**Client Sample ID: SWA-2**  
**Prep Type: Total/NA**  
**Prep Batch: 292703**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	32		25.0	56.3		mg/L		97	90 - 110

**Lab Sample ID: 180-95740-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292717**

**Client Sample ID: SWA-2**  
**Prep Type: Total/NA**  
**Prep Batch: 292703**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chemical Oxygen Demand	32		25.0	56.9		mg/L		99	90 - 110	5	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-291934/2**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:24	1

**Lab Sample ID: LCS 180-291934/1**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	542		mg/L		86	80 - 120

**Lab Sample ID: MB 180-291935/2**  
**Matrix: Water**  
**Analysis Batch: 291935**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

**Lab Sample ID: LCS 180-291935/1**  
**Matrix: Water**  
**Analysis Batch: 291935**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	600		mg/L		95	80 - 120

**Lab Sample ID: 180-95740-7 DU**  
**Matrix: Water**  
**Analysis Batch: 291935**

**Client Sample ID: SWC-8**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	370		380		mg/L		2	10

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-292667/1  
Matrix: Water  
Analysis Batch: 292667

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-292808/1  
Matrix: Water  
Analysis Batch: 292808

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

## Method: SM 4500CN E - Total Cyanide

Lab Sample ID: MB 180-292460/4-A  
Matrix: Water  
Analysis Batch: 292605

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 292460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		09/24/19 13:24	09/24/19 20:38	1

Lab Sample ID: HLCS 180-292460/2-A  
Matrix: Water  
Analysis Batch: 292605

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 292460

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.247		mg/L		99	90 - 110

Lab Sample ID: LCS 180-292460/3-A  
Matrix: Water  
Analysis Batch: 292605

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 292460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.200	0.193		mg/L		97	90 - 110

Lab Sample ID: LLCS 180-292460/1-A  
Matrix: Water  
Analysis Batch: 292605

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 292460

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0520		mg/L		104	90 - 110

## Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-292877/6  
Matrix: Water  
Analysis Batch: 292877

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			09/26/19 13:56	1

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# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
 SDG: Surface Water

## Method: SM 5310C - Total Organic Carbon (Continued)

**Lab Sample ID: LCS 180-292877/4**  
**Matrix: Water**  
**Analysis Batch: 292877**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	20.4		mg/L		102	85 - 115

**Lab Sample ID: LCSD 180-292877/5**  
**Matrix: Water**  
**Analysis Batch: 292877**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.3		mg/L		101	85 - 115	1	20

**Lab Sample ID: MB 180-293568/6**  
**Matrix: Water**  
**Analysis Batch: 293568**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			10/02/19 14:56	1

**Lab Sample ID: LCS 180-293568/4**  
**Matrix: Water**  
**Analysis Batch: 293568**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	19.6		mg/L		98	85 - 115

**Lab Sample ID: LCSD 180-293568/5**  
**Matrix: Water**  
**Analysis Batch: 293568**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	19.4		mg/L		97	85 - 115	1	20

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## HPLC/IC

### Analysis Batch: 292203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-95740-1	SWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-95740-2	SWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-95740-3	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-95740-3	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-95740-4	SWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-95740-5	SWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-95740-6	SWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-95740-7	SWC-8	Total/NA	Water	EPA 300.0 R2.1	
180-95740-7	SWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292203/15	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292203/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 292485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total Recoverable	Water	3005A	
180-95740-7	SWC-8	Total Recoverable	Water	3005A	
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-95740-6 MS	SWC-7	Total Recoverable	Water	3005A	
180-95740-6 MSD	SWC-7	Total Recoverable	Water	3005A	

### Prep Batch: 292487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total Recoverable	Water	3005A	
180-95740-2	SWA-3	Total Recoverable	Water	3005A	
180-95740-3	SWC-4	Total Recoverable	Water	3005A	
180-95740-4	SWC-5	Total Recoverable	Water	3005A	
180-95740-5	SWC-6	Total Recoverable	Water	3005A	
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 293025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total Recoverable	Water	EPA 6020	292487
180-95740-2	SWA-3	Total Recoverable	Water	EPA 6020	292487
180-95740-3	SWC-4	Total Recoverable	Water	EPA 6020	292487
180-95740-4	SWC-5	Total Recoverable	Water	EPA 6020	292487
180-95740-5	SWC-6	Total Recoverable	Water	EPA 6020	292487
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292487
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292487

### Prep Batch: 293530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	7470A	
180-95740-2	SWA-3	Total/NA	Water	7470A	
180-95740-3	SWC-4	Total/NA	Water	7470A	
180-95740-4	SWC-5	Total/NA	Water	7470A	
180-95740-5	SWC-6	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## Metals (Continued)

### Prep Batch: 293530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total/NA	Water	7470A	
180-95740-7	SWC-8	Total/NA	Water	7470A	
MB 180-293530/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	EPA 7470A	293530
180-95740-2	SWA-3	Total/NA	Water	EPA 7470A	293530
180-95740-3	SWC-4	Total/NA	Water	EPA 7470A	293530
180-95740-4	SWC-5	Total/NA	Water	EPA 7470A	293530
180-95740-5	SWC-6	Total/NA	Water	EPA 7470A	293530
180-95740-6	SWC-7	Total/NA	Water	EPA 7470A	293530
180-95740-7	SWC-8	Total/NA	Water	EPA 7470A	293530
MB 180-293530/1-A	Method Blank	Total/NA	Water	EPA 7470A	293530
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293530

### Analysis Batch: 294986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total Recoverable	Water	EPA 6020	292485
180-95740-7	SWC-8	Total Recoverable	Water	EPA 6020	292485
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292485
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292485
180-95740-6 MS	SWC-7	Total Recoverable	Water	EPA 6020	292485
180-95740-6 MSD	SWC-7	Total Recoverable	Water	EPA 6020	292485

## General Chemistry

### Prep Batch: 291657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total/NA	Water	410.4	
MB 180-291657/60-A	Method Blank	Total/NA	Water	410.4	
LCS 180-291657/59-A	Lab Control Sample	Total/NA	Water	410.4	

### Analysis Batch: 291677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total/NA	Water	EPA 410.4	291657
MB 180-291657/60-A	Method Blank	Total/NA	Water	EPA 410.4	291657
LCS 180-291657/59-A	Lab Control Sample	Total/NA	Water	EPA 410.4	291657

### Analysis Batch: 291934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	SM 2540C	
180-95740-2	SWA-3	Total/NA	Water	SM 2540C	
MB 180-291934/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291934/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-3	SWC-4	Total/NA	Water	SM 2540C	
180-95740-4	SWC-5	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## General Chemistry (Continued)

### Analysis Batch: 291935 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-5	SWC-6	Total/NA	Water	SM 2540C	
180-95740-6	SWC-7	Total/NA	Water	SM 2540C	
180-95740-7	SWC-8	Total/NA	Water	SM 2540C	
MB 180-291935/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291935/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95740-7 DU	SWC-8	Total/NA	Water	SM 2540C	

### Prep Batch: 292460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	SM 4500 CN C	
180-95740-2	SWA-3	Total/NA	Water	SM 4500 CN C	
180-95740-6	SWC-7	Total/NA	Water	SM 4500 CN C	
MB 180-292460/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-292460/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-292460/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-292460/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

### Analysis Batch: 292605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	SM 4500CN E	292460
180-95740-2	SWA-3	Total/NA	Water	SM 4500CN E	292460
180-95740-6	SWC-7	Total/NA	Water	SM 4500CN E	292460
MB 180-292460/4-A	Method Blank	Total/NA	Water	SM 4500CN E	292460
HLCS 180-292460/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	292460
LCS 180-292460/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	292460
LLCS 180-292460/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	292460

### Analysis Batch: 292667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	SM 4500 H+ B	
180-95740-2	SWA-3	Total/NA	Water	SM 4500 H+ B	
180-95740-3	SWC-4	Total/NA	Water	SM 4500 H+ B	
180-95740-4	SWC-5	Total/NA	Water	SM 4500 H+ B	
LCS 180-292667/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

### Prep Batch: 292703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	410.4	
180-95740-2	SWA-3	Total/NA	Water	410.4	
MB 180-292703/12-A	Method Blank	Total/NA	Water	410.4	
LCS 180-292703/11-A	Lab Control Sample	Total/NA	Water	410.4	
180-95740-1 MS	SWA-2	Total/NA	Water	410.4	
180-95740-1 MSD	SWA-2	Total/NA	Water	410.4	

### Analysis Batch: 292717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	EPA 410.4	292703
180-95740-2	SWA-3	Total/NA	Water	EPA 410.4	292703
MB 180-292703/12-A	Method Blank	Total/NA	Water	EPA 410.4	292703
LCS 180-292703/11-A	Lab Control Sample	Total/NA	Water	EPA 410.4	292703
180-95740-1 MS	SWA-2	Total/NA	Water	EPA 410.4	292703

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95740-1  
SDG: Surface Water

## General Chemistry (Continued)

### Analysis Batch: 292717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1 MSD	SWA-2	Total/NA	Water	EPA 410.4	292703

### Analysis Batch: 292808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-5	SWC-6	Total/NA	Water	SM 4500 H+ B	
180-95740-6	SWC-7	Total/NA	Water	SM 4500 H+ B	
180-95740-7	SWC-8	Total/NA	Water	SM 4500 H+ B	
LCS 180-292808/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 292877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-6	SWC-7	Total/NA	Water	SM 5310C	
MB 180-292877/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-292877/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-292877/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

### Analysis Batch: 293568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95740-1	SWA-2	Total/NA	Water	SM 5310C	
180-95740-2	SWA-3	Total/NA	Water	SM 5310C	
MB 180-293568/6	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-293568/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-293568/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Chain of Custody Record

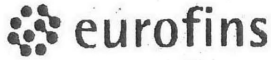
<b>Client Information</b> Client Contact: Karim Minkara Joju Abraham Southern Company Address: 241 Ralph McGill Blvd SE B10185 City: Atlanta State Zip: GA, 30308 Phone: SCS10347656 Email: JAbraham@southernco.com Project Name: CCR - Plant Scherer Site: Surface Water		Lab PM: Bortot, Veronica E-Mail: veronica_bortot@testamericainc.com Carrier Tracking No(s): COC No: 400-68569-27833.1 Page: Page 1 of 1 Job #:	
<b>Due Date Requested:</b> TAT Requested (days): Standard TAT PO #: SCS10347656 WO #:		<b>Analysis Requested</b> SM4500_H+ - pH & Temperature 2540C - TDS 6020 - Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Se, Tr+Ag, Cu, Ni, V, Zn & 7470A - Hg SM5310B - TOC 5220D - Chemical Oxygen Demand 4500_CN_E-Cyanide, Total 300_ORGFM_28D - Chloride, Fluoride, & Sulfate Perform MS/MSD (Yes or No)	
Sample Identification SWA-2 SWA-3 SWC-4 SWC-5 SWC-6 SWC-7 SWC-8		Field Filtered Sample (Yes or No) N X X X X X X	
Sample Date 9/12/19 9/12/19 9/12/19 9/12/19 9/12/19 9/12/19		Preservation Code: G G G G G G	
Sample Type (C=comp, G=grab) G G G G G G		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) Water Water Water Water Water Water	
Total Number of containers 7 7 2 2 2 7 2		Special Instructions/Note: Was not provided with trip blanks One 40mL vial potentially has preservative flushed out	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AshNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> III, <input type="checkbox"/> IV, Other (specify)			
Empty Kit Relinquished by:		Date:	
Relinquished by: <i>[Signature]</i>		Date/Time: 9-13-19 1325	
Relinquished by: <i>[Signature]</i>		Date/Time: 9-13-19 1341	
Relinquished by: <i>[Signature]</i>		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:	
Special Instructions/QC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For		Method of Shipment: Received by: <i>[Signature]</i> Date/Time: 9-13-19 1325 Received by: <i>[Signature]</i> Date/Time: 9-14-19 1325 Received by: <i>[Signature]</i> Date/Time: 9-15-19 945	







180-95740 Waybill



Environment Testing  
TestAmerica

Part # 159469-434 RIT2 EXP 05/20

*Handwritten:* Done at 9/16/19 S/30

ORIGIN ID:MULA (678) 866-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

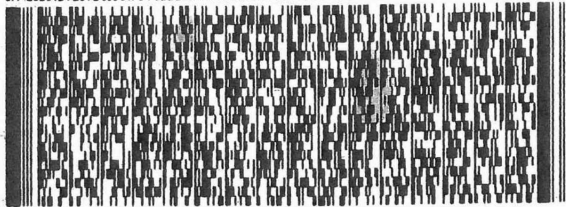
SHIP DATE: 13SEP19  
ACTWGT: 55.50 LB  
CAD: 859116/CAFE3211

NORCROSS, GA 30093  
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**

(412) 963-7066  
REF: **GOLDER**



FedEx  
Express



J181110000501 IN

4 of 4

MPS# 4651 0083 6596  
0263

Mstr# 4651 0083 6563

0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**XO AGCA**

15238  
PIT

Uncorrected temp  
Thermometer ID

*Handwritten:* PA - U<sup>C</sup>  
75.5  
10

CF 0 Initials all



ST-WI-SR-001 effective 11/8/18

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95740-1  
SDG Number: Surface Water

**Login Number: 95740**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95740-1  
SDG Number: Surface Water

**Login Number: 95740**

**List Number: 2**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**

**EFFLUENT**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95739-1  
Laboratory Sample Delivery Group: Effluent  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 2:03:07 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

---

**Job ID: 180-95739-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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**Narrative**

**Job Narrative**  
**180-95739-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3° C, 1.4° C and 3.4° C.

**Metals**

Method 7470A: The following sample was diluted to bring the concentration of mercury to within the instrument's calibration range: EFFLUENT (180-95739-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
 SDG: Effluent

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95739-1	EFFLUENT	Water	09/13/19 08:50	09/14/19 09:45	

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# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

Method	Method Description	Protocol	Laboratory
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

**Client Sample ID: EFFLUENT**

**Lab Sample ID: 180-95739-1**

**Date Collected: 09/13/19 08:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	292557	09/25/19 08:54	KEM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293128	09/28/19 19:54	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		20			293683	10/03/19 16:35	RJR	TAL PIT
		Instrument ID: HGZ								

## Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

KEM = Kimberly Mahoney

NAM = Nicole Marfisi

Batch Type: Analysis

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

**Client Sample ID: EFFLUENT**

**Lab Sample ID: 180-95739-1**

Date Collected: 09/13/19 08:50

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0036		0.0025	0.00038	mg/L		09/25/19 08:54	09/28/19 19:54	1
Arsenic	0.022		0.0013	0.00032	mg/L		09/25/19 08:54	09/28/19 19:54	1
Barium	0.18		0.010	0.0016	mg/L		09/25/19 08:54	09/28/19 19:54	1
Beryllium	0.0019	J	0.0025	0.00018	mg/L		09/25/19 08:54	09/28/19 19:54	1
Cadmium	0.0025		0.0025	0.00013	mg/L		09/25/19 08:54	09/28/19 19:54	1
Chromium	0.13		0.0025	0.0015	mg/L		09/25/19 08:54	09/28/19 19:54	1
Cobalt	0.024		0.0025	0.000075	mg/L		09/25/19 08:54	09/28/19 19:54	1
Lead	0.034		0.0010	0.00013	mg/L		09/25/19 08:54	09/28/19 19:54	1
Selenium	0.17		0.0025	0.0015	mg/L		09/25/19 08:54	09/28/19 19:54	1
Thallium	0.00034	J	0.00050	0.00015	mg/L		09/25/19 08:54	09/28/19 19:54	1
Copper	0.14		0.0020	0.00063	mg/L		09/25/19 08:54	09/28/19 19:54	1
Nickel	0.14		0.0010	0.00034	mg/L		09/25/19 08:54	09/28/19 19:54	1
Silver	0.00018	J	0.0010	0.00018	mg/L		09/25/19 08:54	09/28/19 19:54	1
Vanadium	0.034		0.0010	0.00099	mg/L		09/25/19 08:54	09/28/19 19:54	1
Zinc	0.21		0.0050	0.0032	mg/L		09/25/19 08:54	09/28/19 19:54	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.078		0.0040	0.0020	mg/L		10/02/19 15:35	10/03/19 16:35	20

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-292557/1-A**  
**Matrix: Water**  
**Analysis Batch: 293128**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292557**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/25/19 08:54	09/28/19 19:47	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/25/19 08:54	09/28/19 19:47	1
Barium	<0.0016		0.010	0.0016	mg/L		09/25/19 08:54	09/28/19 19:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/25/19 08:54	09/28/19 19:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/25/19 08:54	09/28/19 19:47	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/25/19 08:54	09/28/19 19:47	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/25/19 08:54	09/28/19 19:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/25/19 08:54	09/28/19 19:47	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/25/19 08:54	09/28/19 19:47	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/25/19 08:54	09/28/19 19:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/25/19 08:54	09/28/19 19:47	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/25/19 08:54	09/28/19 19:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/25/19 08:54	09/28/19 19:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/25/19 08:54	09/28/19 19:47	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/25/19 08:54	09/28/19 19:47	1

**Lab Sample ID: LCS 180-292557/2-A**  
**Matrix: Water**  
**Analysis Batch: 293128**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292557**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	0.924		mg/L		92	80 - 120
Barium	1.00	1.11		mg/L		111	80 - 120
Beryllium	0.500	0.492		mg/L		98	80 - 120
Cadmium	0.500	0.527		mg/L		105	80 - 120
Chromium	0.500	0.533		mg/L		107	80 - 120
Cobalt	0.500	0.474		mg/L		95	80 - 120
Lead	0.500	0.520		mg/L		104	80 - 120
Selenium	1.00	1.04		mg/L		104	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Copper	0.500	0.463		mg/L		93	80 - 120
Nickel	0.500	0.460		mg/L		92	80 - 120
Silver	0.250	0.259		mg/L		104	80 - 120
Vanadium	0.500	0.535		mg/L		107	80 - 120
Zinc	0.250	0.238		mg/L		95	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-293530/1-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:26	1

Eurofins TestAmerica, Pittsburgh



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

## Method: EPA 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 180-293530/2-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293530  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95739-1  
SDG: Effluent

## Metals

### Prep Batch: 292557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95739-1	EFFLUENT	Total Recoverable	Water	3005A	
MB 180-292557/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292557/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 293128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95739-1	EFFLUENT	Total Recoverable	Water	EPA 6020	292557
MB 180-292557/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292557
LCS 180-292557/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292557

### Prep Batch: 293530


Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95739-1	EFFLUENT	Total/NA	Water	7470A	
MB 180-293530/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95739-1	EFFLUENT	Total/NA	Water	EPA 7470A	293530
MB 180-293530/1-A	Method Blank	Total/NA	Water	EPA 7470A	293530
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293530

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<p><b>Client Contact</b></p> <p>Joju Abraham                  Southern Company                  241 Ralph McGill Blvd SE B10185                  Atlanta, GA 30308                  JAbraham@southernco.com                  Project Name: CCR - Plant Scherer Cell 1                  Site: Georgia                  P O # 18019884</p>	<p><b>Project Manager: Dawn Prell</b>                  Tel/Fax: 248-536-5445</p> <p>Analysis Turnaround Time  <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS                  TAT if different from Below _____  <input type="checkbox"/> 2 weeks  <input type="checkbox"/> 1 week  <input type="checkbox"/> 2 days  <input type="checkbox"/> 1 day</p>	<p><b>Site Contact: Karim Minkara</b>  <b>Lab Contact: Veronica Bortot</b></p>	<p>Date: 9/13/2019                  Carrier:</p>
<p><b>Regulatory Program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other:</p>		<p>COC No: _____ of _____ COCs</p>	
<p>Sample Specific Notes:</p> <p>Sampled /</p>		<p>Sampler:</p> <p>For Lab Use Only:</p> <p>Walk-in Client:</p> <p>Lab Sampling:</p> <p>Job / SDG No.:</p>	
<p>State 6020 - As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Ti, V, Zn, &amp; 7470 - Hg</p>			
<p>Filtered Sample ( Y / N )</p>			
<p>Perform MS / MSD ( Y / N )</p>			
<p>X</p>			
<p>4</p>			
 <p>180-95739 Chain of Custody</p>			
<p><b>Preservation Used: 1 = Ice, 2 = HCl; 3 = H2SO4; 4 = HNO3; 5 = NaOH; 6 = Other _____</b></p> <p><b>Possible Hazard Identification:</b>                  Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.</p>			
<p><b>Special Instructions/QC Requirements &amp; Comments:</b></p>			
<p>Custody Seal No.:</p> <p>Relinquished by: <i>[Signature]</i> <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Therm ID No.:</p> <p>Date/Time: 9-13-19</p>	
<p>Relinquished by: <i>[Signature]</i></p>		<p>Company: JAPI H</p>	
<p>Relinquished by: <i>[Signature]</i></p>		<p>Date/Time: 9-14-19</p>	
<p>Relinquished by: <i>[Signature]</i></p>		<p>Date/Time: 9-14-19</p>	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95739-1

SDG Number: Effluent

**Login Number: 95739**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**APPENDIX A**

# FIELD DATA FORMS

**FIELD DATA FORMS**

**CELL 1**



Product Name: Low-Flow System

Date: 2019-09-10 12:03:09

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 25 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWA-15  
Well diameter 2 in  
Well Total Depth 29.59 ft  
Screen Length 10 ft  
Depth to Water 13.45 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2015856 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.24 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:50:28	300.09	24.17	5.44	62.00	1.04	13.72	0.37	58.93
Last 5	11:55:28	600.03	23.39	5.42	62.84	1.53	13.72	0.25	35.37
Last 5	12:00:28	900.02	23.16	5.41	62.86	0.92	13.72	0.20	27.30
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.78	-0.02	0.84			-0.12	-23.56
Variance 2			-0.23	-0.01	0.02			-0.05	-8.08

Notes

Sampled GWA-15 at 1200

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 14:25:24

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 53 ft

Pump placement from TOC 53 ft

Well Information:

Well ID GWA-16  
Well diameter 2 in  
Well Total Depth 57.93 ft  
Screen Length 10 ft  
Depth to Water 33.95 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4515614 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.0 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:03:01	300.07	21.66	6.88	116.60	1.28	34.20	5.57	62.38
Last 5	14:08:01	600.03	20.39	6.75	117.62	3.90	34.20	5.61	56.37
Last 5	14:13:01	900.02	20.71	6.64	117.19	3.80	34.21	5.53	54.56
Last 5	14:18:01	1200.02	20.96	6.61	116.78	1.97	34.20	5.48	53.03
Last 5	14:23:01	1500.02	20.93	6.58	116.47	1.45	34.20	5.47	53.04
Variance 0			0.32	-0.11	-0.43			-0.08	-1.82
Variance 1			0.25	-0.03	-0.41			-0.05	-1.53
Variance 2			-0.04	-0.03	-0.31			-0.02	0.01

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 15:41:32

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type polyethylene  
Tubing Diameter 0.170 in  
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID GWA-17  
Well diameter 2 in  
Well Total Depth 46.76 ft  
Screen Length 10 ft  
Depth to Water 30.51 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4024638 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.0 in  
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:15:20	1500.02	21.28	6.26	82.24	6.60	30.76	7.69	56.08
Last 5	15:20:20	1800.02	21.38	6.28	83.72	7.42	30.76	7.67	55.76
Last 5	15:25:20	2100.02	21.50	6.29	84.87	6.83	30.76	7.78	56.86
Last 5	15:30:21	2401.02	21.46	6.31	85.49	6.14	30.76	7.92	57.03
Last 5	15:35:21	2701.02	21.51	6.31	86.98	4.75	30.76	7.97	59.85
Variance 0			0.12	0.01	1.15			0.11	1.10
Variance 1			-0.04	0.02	0.62			0.15	0.17
Variance 2			0.05	-0.00	1.50			0.05	2.81

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 13:42:09

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 34 ft

Pump placement from TOC 34 ft

Well Information:

Well ID GWC-1  
Well diameter 2 in  
Well Total Depth 38.72 ft  
Screen Length 10 ft  
Depth to Water 10.22 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2417564 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.56 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:30:24	300.03	23.61	6.49	175.18	0.91	10.58	5.18	48.69
Last 5	13:35:24	600.02	23.39	6.50	177.47	0.59	10.60	5.21	50.41
Last 5	13:40:24	900.03	23.31	6.51	177.22	0.28	10.60	5.19	53.16
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.22	0.01	2.29			0.04	1.73
Variance 2			-0.07	0.01	-0.26			-0.02	2.75

Notes

Sampled GWC-1 at 1340

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 14:59:14

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 54 ft

Pump placement from TOC 54 ft

Well Information:

Well ID GWC-2  
Well diameter 2 in  
Well Total Depth 58.74 ft  
Screen Length 10 ft  
Depth to Water 14.52 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.3310249 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 17.76 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:45:13	300.03	26.65	6.49	165.55	1.83	15.56	4.20	53.50
Last 5	14:50:13	600.02	26.98	6.40	168.27	1.01	15.74	4.02	57.21
Last 5	14:55:13	900.03	26.85	6.39	166.27	1.51	16.00	3.93	60.48
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.33	-0.08	2.72			-0.18	3.71
Variance 2			-0.13	-0.01	-2.00			-0.09	3.27

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-10 12:20:47

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type  
Tubing Type  
Tubing Diameter .170 in  
Tubing Length 45 ft

Pump placement from TOC 45 ft

Well Information:

Well ID GWC-3  
Well diameter 2 in  
Well Total Depth 50.16 ft  
Screen Length 10 ft  
Depth to Water 30.59 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.415854 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.56in  
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:53:32	1202.01	20.26	6.00	76.79	9.89	30.91	5.69	19.88
Last 5	11:58:32	1502.01	20.27	6.00	75.54	9.23	30.95	5.69	19.20
Last 5	12:03:32	1802.01	20.25	5.99	75.59	6.37	30.96	5.68	19.25
Last 5	12:08:32	2102.00	20.33	5.99	74.92	6.55	30.97	5.66	19.58
Last 5	12:13:32	2402.00	20.33	5.99	74.62	4.57	30.97	5.64	19.68
Variance 0			-0.03	-0.01	0.05			-0.01	0.06
Variance 1			0.09	-0.00	-0.67			-0.02	0.32
Variance 2			0.00	0.01	-0.30			-0.02	0.10

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-10 15:50:00

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 38.5 ft

Pump placement from TOC 38.5 ft

Well Information:

Well ID GWC-4  
Well diameter 2 in  
Well Total Depth 43.41 ft  
Screen Length 10 ft  
Depth to Water 31.20 ft

Pumping Information:

Final Pumping Rate 250 mL/min  
Total System Volume 0.3868418 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 7.2 in  
Total Volume Pumped 11.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:32:41	300.07	20.39	6.31	136.63	0.38	31.82	4.38	35.14
Last 5	15:37:40	600.02	20.23	6.31	136.24	0.21	31.79	4.37	35.58
Last 5	15:42:40	900.02	20.10	6.31	136.90	0.24	31.80	4.40	36.09
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.16	-0.00	-0.39			-0.01	0.44
Variance 2			-0.13	0.00	0.66			0.03	0.51

Notes

iPad overheated. Purged for 30 min at 250mL/min

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 09:43:25

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 29 ft

Pump placement from TOC 29 ft

Well Information:

Well ID GWC-5  
Well diameter 2 in  
Well Total Depth 34.16 ft  
Screen Length 10 ft  
Depth to Water 20.15 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.2194393 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.68 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:21:20	300.06	21.73	5.87	488.18	0.64	20.27	3.31	113.59
Last 5	09:26:20	600.03	21.28	5.83	490.13	0.63	20.28	3.18	91.95
Last 5	09:31:20	900.02	21.23	5.84	490.47	0.57	20.29	3.13	82.73
Last 5	09:36:20	1200.03	21.15	5.82	490.95	1.11	20.29	3.13	79.80
Last 5									
Variance 0			-0.45	-0.04	1.94			-0.13	-21.63
Variance 1			-0.06	0.01	0.34			-0.05	-9.22
Variance 2			-0.08	-0.02	0.47			-0.00	-2.93

Notes

Sampled GWC-5 @ 935

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 10:53:30

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaNotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID GWC-6  
Well diameter 2 in  
Well Total Depth 48.3 ft  
Screen Length 10 ft  
Depth to Water 38.25 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4069272 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 0.84 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:25:02	300.06	21.60	6.25	255.03	4.91	38.26	6.32	104.96
Last 5	10:40:02	1200.00	20.32	6.23	230.10	1.76	38.32	6.60	103.19
Last 5	10:45:02	1499.99	20.31	6.23	229.26	1.91	38.33	6.57	106.26
Last 5	10:50:02	1799.98	20.39	6.23	227.91	1.81	38.32	6.53	109.72
Last 5									
Variance 0			-1.28	-0.02	-24.93			0.28	-1.78
Variance 1			-0.01	0.00	-0.84			-0.03	3.07
Variance 2			0.08	0.00	-1.34			-0.04	3.46

Notes

Fix well depth

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 11:56:06

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 54 ft

Pump placement from TOC 54 ft

Well Information:

Well ID GWC-7  
Well diameter 2 in  
Well Total Depth 58.72 ft  
Screen Length 10 ft  
Depth to Water 43.28 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4560249 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.28 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:32:57	300.03	22.37	6.43	165.19	12.80	42.80	6.30	98.30
Last 5	11:37:57	600.01	20.43	6.38	168.95	10.28	42.85	6.34	107.06
Last 5	11:42:57	900.00	20.20	6.36	168.60	6.69	42.84	6.29	114.22
Last 5	11:47:57	1200.00	20.04	6.35	168.45	7.72	42.85	6.27	118.13
Last 5	11:52:57	1499.99	20.18	6.35	168.17	4.96	42.84	6.22	120.76
Variance 0			-0.23	-0.03	-0.35			-0.05	7.16
Variance 1			-0.16	-0.01	-0.15			-0.02	3.91
Variance 2			0.14	-0.00	-0.27			-0.05	2.63

Notes

FD-2

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 11:01:30

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID GWC-8A  
Well diameter 2 in  
Well Total Depth 47.50 ft  
Screen Length 10 ft  
Depth to Water 23.47 ft

Pumping Information:

Final Pumping Rate 150 mL/min  
Total System Volume 0.2774638 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.6 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:40:00	300.05	27.43	6.72	344.75	0.38	23.78	1.53	61.27
Last 5	10:45:00	600.03	24.37	6.71	363.07	0.50	23.79	0.28	49.18
Last 5	10:50:00	900.03	24.15	6.71	365.81	0.36	23.78	0.21	42.68
Last 5	10:55:00	1200.03	24.17	6.72	362.70	0.30	23.77	0.20	36.88
Last 5									
Variance 0			-3.06	-0.02	18.32			-1.26	-12.09
Variance 1			-0.22	0.00	2.74			-0.07	-6.51
Variance 2			0.02	0.00	-3.11			-0.01	-5.79

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 13:03:33

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 15 ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWC-9  
Well diameter 2 in  
Well Total Depth 20.25 ft  
Screen Length 10 ft  
Depth to Water 8.04 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1569514 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6.24 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:40:10	300.04	24.28	6.81	231.41	2.42	8.49	0.28	51.93
Last 5	12:45:10	600.03	22.98	6.71	193.42	2.55	8.52	1.60	48.29
Last 5	12:50:10	900.03	22.77	6.68	183.29	1.28	8.55	2.00	47.86
Last 5	12:55:10	1200.03	22.52	6.64	180.69	0.95	8.56	2.05	48.65
Last 5	13:00:10	1500.03	22.47	6.63	181.56	0.80	8.56	2.07	49.52
Variance 0			-0.21	-0.03	-10.13			0.40	-0.44
Variance 1			-0.24	-0.03	-2.60			0.05	0.79
Variance 2			-0.05	-0.02	0.87			0.02	0.87

Notes

Sampled GWC-9 at 1300

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-11 15:56:00

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 35 ft

Pump placement from TOC 35 ft

Well Information:

Well ID GWC-10  
Well diameter 2 in  
Well Total Depth 40.63 ft  
Screen Length 10 ft  
Depth to Water 11.75 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.52 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:32:13	300.04	23.25	6.33	181.96	0.25	11.95	0.97	27.84
Last 5	15:37:13	600.02	22.31	6.32	184.72	0.43	11.95	0.76	27.49
Last 5	15:42:13	900.01	22.51	6.32	186.84	0.23	11.96	0.68	26.26
Last 5	15:47:13	1200.02	22.22	6.32	184.63	0.61	11.95	0.64	25.94
Last 5	15:52:13	1500.01	21.85	6.32	186.18	0.17	11.96	0.66	25.62
Variance 0			0.20	-0.01	2.12			-0.09	-1.23
Variance 1			-0.29	0.00	-2.21			-0.03	-0.32
Variance 2			-0.37	-0.00	1.55			0.02	-0.32

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 14:36:39

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-11  
Well diameter 2 in  
Well Total Depth 34.59 ft  
Screen Length 10 ft  
Depth to Water 19.35 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.68 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:11:51	300.03	21.41	6.17	133.04	0.32	19.49	0.93	29.26
Last 5	14:16:51	600.02	20.85	6.17	132.97	0.55	19.49	0.80	27.43
Last 5	14:21:51	900.02	21.04	6.16	133.19	0.20	19.50	0.75	25.53
Last 5	14:26:51	1200.01	20.88	6.17	131.57	0.20	19.50	0.72	24.89
Last 5	14:31:51	1500.01	20.76	6.17	132.20	0.11	19.49	0.73	24.55
Variance 0			0.20	-0.00	0.21			-0.05	-1.90
Variance 1			-0.16	0.00	-1.61			-0.03	-0.64
Variance 2			-0.12	-0.00	0.62			0.00	-0.34

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 13:05:21

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-12  
Well diameter 2 in  
Well Total Depth 37.82 ft  
Screen Length 10 ft  
Depth to Water 26.48 ft

Pumping Information:

Final Pumping Rate 156 mL/min  
Total System Volume 0.09 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 3.12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:44:59	300.06	22.17	5.11	25.10	0.40	26.82	2.19	25.67
Last 5	12:49:59	600.02	21.64	5.10	25.54	0.48	26.83	2.04	18.38
Last 5	12:54:59	900.02	21.25	5.07	25.69	0.27	26.83	1.98	18.04
Last 5	12:59:59	1200.01	21.28	5.10	25.61	0.32	26.83	2.03	17.23
Last 5									
Variance 0			-0.53	-0.01	0.44			-0.16	-7.29
Variance 1			-0.39	-0.03	0.15			-0.06	-0.34
Variance 2			0.03	0.03	-0.08			0.05	-0.80

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 14:15:13

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 36 ft

Pump placement from TOC 36 ft

Well Information:

Well ID GWC-13  
Well diameter 2 in  
Well Total Depth 44.2 ft  
Screen Length 10 ft  
Depth to Water 31.70 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.3756832 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.28 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:57:37	300.02	20.75	5.88	92.39	2.51	31.90	3.92	117.18
Last 5	14:02:37	600.01	20.57	5.88	94.01	2.95	31.89	3.92	123.03
Last 5	14:07:37	900.01	20.17	5.87	96.47	1.37	31.89	3.87	126.42
Last 5	14:12:37	1200.00	20.31	5.89	98.72	1.01	31.89	3.87	126.97
Last 5									
Variance 0			-0.18	-0.00	1.62			0.00	5.86
Variance 1			-0.40	-0.01	2.46			-0.06	3.38
Variance 2			0.14	0.02	2.25			0.01	0.55

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 14:37:34

Project Information:

Operator Name K. Minkara  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463068  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-14  
Well diameter 2 in  
Well Total Depth 27.5 ft  
Screen Length 10 ft  
Depth to Water 14.17 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.2 in  
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:25:52	300.03	23.61	5.63	75.90	0.55	14.27	0.25	71.99
Last 5	14:30:52	600.03	22.68	5.60	77.35	0.29	14.27	0.17	80.88
Last 5	14:35:52	900.03	22.50	5.59	78.21	1.14	14.27	0.16	86.88
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.93	-0.03	1.45			-0.07	8.89
Variance 2			-0.19	-0.01	0.86			-0.02	6.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-11 13:17:23

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 66 ft

Pump placement from TOC 66 ft

Well Information:

Well ID GWC-18  
Well diameter 2 in  
Well Total Depth 71.25 ft  
Screen Length 10 ft  
Depth to Water 33.2 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.5095859 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 9.6 in  
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:53:03	900.00	21.38	6.38	127.64	10.21	34.00	7.17	118.69
Last 5	12:58:03	1200.00	21.15	6.38	127.71	8.77	34.00	7.18	121.92
Last 5	13:03:03	1499.99	20.97	6.38	127.44	6.87	34.05	7.14	123.53
Last 5	13:08:04	1800.98	21.02	6.38	126.86	5.84	34.00	6.57	124.88
Last 5	13:13:04	2100.97	21.46	6.37	127.27	4.28	34.00	6.49	126.10
Variance 0			-0.18	0.00	-0.26			-0.04	1.60
Variance 1			0.04	-0.00	-0.58			-0.57	1.36
Variance 2			0.44	-0.01	0.42			-0.08	1.22

Notes

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-12 09:48:24

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID GWC-19  
Well diameter 2 in  
Well Total Depth 62.75 ft  
Screen Length 10 ft  
Depth to Water 32.81 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4738785 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 14.16 in  
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:23:43	600.01	20.41	6.40	144.65	3.27	33.94	6.39	51.86
Last 5	09:28:43	900.01	20.33	6.40	143.88	2.82	34.05	6.29	47.61
Last 5	09:33:43	1200.00	20.30	6.39	144.60	2.62	33.79	6.18	44.96
Last 5	09:38:44	1500.99	21.68	6.40	143.30	1.55	33.75	5.99	42.22
Last 5	09:43:50	1806.98	20.33	6.39	143.96	1.82	33.99	6.08	41.77
Variance 0			-0.03	-0.00	0.72			-0.11	-2.66
Variance 1			1.38	0.00	-1.30			-0.19	-2.73
Variance 2			-1.35	-0.00	0.66			0.08	-0.45

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 11:15:47

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type  
Tubing Type  
Tubing Diameter .170 in  
Tubing Length 67.70 ft

Pump placement from TOC 67.70 ft

Well Information:

Well ID GWC-20  
Well diameter 2 in  
Well Total Depth 72.70 ft  
Screen Length 10 ft  
Depth to Water 40.22 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.5171737 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.76 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:50:14	300.06	22.26	6.61	141.28	6.36	40.44	6.46	36.66
Last 5	10:55:14	600.02	21.46	6.59	142.74	7.33	40.45	6.74	36.09
Last 5	11:00:14	900.02	21.24	6.58	141.24	6.31	40.44	6.67	35.80
Last 5	11:05:14	1200.01	21.24	6.58	140.25	4.61	40.46	6.64	35.94
Last 5	11:10:14	1500.01	21.25	6.57	139.37	4.46	40.45	6.62	35.73
Variance 0			-0.22	-0.01	-1.50			-0.06	-0.29
Variance 1			0.00	-0.01	-0.99			-0.04	0.14
Variance 2			0.01	-0.01	-0.88			-0.02	-0.21

Notes

Grab Samples

# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: SWA-1	Date: 9-12-19	Water Level (ft):	Time (WL):
Physical Condition of Well:		Weather:	
Well Diameter (in): 2	Well Depth (ft):	Water Column (ft):	Well Volume (gal):
Start Purge:	End Purge:	Top of Pump (ft):	
Evacuation Method: Low-Flow		Volume Removed (L):	
Evacuation Equipment:		Purging Personnel:	
SmarTroll serial #:		Lamotte serial #:	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
			DRY							
			@ 8:58							

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: \_\_\_\_\_ Sample Date/Time: \_\_\_\_\_ Metals Date/Time: \_\_\_\_\_  
 Duplicate: \_\_\_\_\_ Dup Date/Time: \_\_\_\_\_ Final Turbidity NTU: \_\_\_\_\_  
 Field Blank: \_\_\_\_\_ Blank Date/Time: \_\_\_\_\_ Turbidity Date/Time: \_\_\_\_\_

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: \_\_\_\_\_

# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>SWA-2</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>    </u>	Time (WL): <u>    </u>
Physical Condition of Well: <u>N/A</u>		Weather: <u>Sunny, ~85°F</u>	
Well Diameter (in): <u>X</u>	Well Depth (ft): <u>    </u>	Water Column (ft): <u>    </u>	Well Volume (gal): <u>    </u>
Start Purge: <u>    </u>	End Purge: <u>    </u>	Top of Pump (ft): <u>    </u>	
Evacuation Method: <u>Low Flow Surface water</u>		Volume Removed (L): <u>    </u>	
Evacuation Equipment: <u>Surface water</u>		Purging Personnel: <u>KM/CI</u>	
SmarTroll serial #: <u>463068</u>		Lamotte serial #: <u>977-2111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ftBTOC)	Pumping Rate
11:00	Clear	None	7.24	886.8	7.20	21.58	86.1	<del>0.21</del> 1.21	N/A	N/A

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: SWA-2      Sample Date/Time: 9-12-19@11:00      Metals Date/Time: 9-12-19@11:00  
 Duplicate:           Dup Date/Time:           Final Turbidity NTU: 1.21  
 Field Blank:           Blank Date/Time:           Turbidity Date/Time: 9-12-19@11:00

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: 



# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>SWA-3</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>      </u>	Time (WL): <u>      </u>
Physical Condition of Well: <u>      </u>		Weather: <u>Sunny, ~85°F</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>      </u>	Water Column (ft): <u>      </u>	Well Volume (gal): <u>      </u>
Start Purge: <u>      </u>	End Purge: <u>      </u>	Top of Pump (ft): <u>      </u>	
Evacuation Method: <del>Low Flow</del> <u>Surface water</u>		Volume Removed (L): <u>      </u>	
Evacuation Equipment: <u>Surface water</u>		Purging Personnel: <u>KM/ct</u>	
SmarTroll serial #: <u>463068</u>		Lamotte serial #: <u>977-2111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>10:45</u>	<u>clear</u>	<u>none</u>	<u>7.48</u>	<u>235.7</u>	<u>7.69</u>	<u>23.88</u>	<u>72.9</u>	<u>2.47</u>	<u>N/A</u>	<u>N/A</u>
/										

\* One 40 mL vial may have preservative flushed out \*

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: <u>SWA-3</u>	Sample Date/Time: <u>9-12-19 @ 10:45</u>	Metals Date/Time: <u>9-12-19 @ 10:45</u>
Duplicate: <u>      </u>	Dup Date/Time: <u>      </u>	Final Turbidity NTU: <u>2.47</u>
Field Blank: <u>      </u>	Blank Date/Time: <u>      </u>	Turbidity Date/Time: <u>9-12-19 @ 10:45</u>

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: [Signature] Sorted

# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>SWC-4</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>    </u>	Time (WL): <u>    </u>
Physical Condition of Well: <u>    </u>		Weather: <u>swmy ~80°C</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>    </u>	Water Column (ft): <u>    </u>	Well Volume (gal): <u>    </u>
Start Purge: <u>09:05</u>	End Purge: <u>09:05</u>	Top of Pump (ft): <u>    </u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>    </u>	
Evacuation Equipment: <u>surface water</u>		Purging Personnel: <u>K.M.   C.T.</u>	
SmarTroll serial #: <u>463068</u>		Lamotte serial #: <u>977-2111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
<u>09:05</u>	<u>clear</u>	<u>none</u>	<u>7.50</u>	<u>380.8</u>	<u>7.42</u>	<u>24.15</u>	<u>+131.0</u>	<u>1.68</u>	<u>N/A</u>	<u>N/A</u>

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: SWC-4      Sample Date/Time: 9-12-19 @ 09:05      Metals Date/Time: 9-12-19 @ 09:05  
 Duplicate:           Dup Date/Time:           Final Turbidity NTU: 1.68  
 Field Blank:           Blank Date/Time:           Turbidity Date/Time: 9-12-19 @ 09:05

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Assorted bottles

Signature: [Signature]





# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: SWC-5	Date: 9-12-19	Water Level (ft):	Time (WL):
Physical Condition of Well:		Weather: Sunny, ~80°F	
Well Diameter (in):	Well Depth (ft):	Water Column (ft):	Well Volume (gal):
Start Purge:	End Purge:	Top of Pump (ft):	
Evacuation Method: Low-Flow		Volume Removed (L):	
Evacuation Equipment:		Purging Personnel: KM/CF	
SmarTroll serial #: 1163068		Lamotte serial #: 977-2111	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
09:20	slightly cloudy	none	7.26	315.7	5.74	22.95	84.4	12.9	N/A	N/A

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

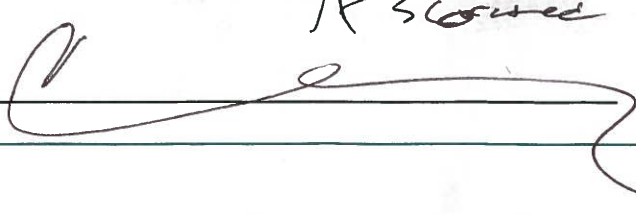
## Sample Description

Sample ID: SWC-5      Sample Date/Time: 9-12-19 09:20      Metals Date/Time: 9-12-19 09:20

Duplicate: \_\_\_\_\_      Dup Date/Time: \_\_\_\_\_      Final Turbidity NTU: 12.9

Field Blank: \_\_\_\_\_      Blank Date/Time: \_\_\_\_\_      Turbidity Date/Time: 9-12-19 09:20

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: 



# PURGING AND SAMPLING FORM

Project #: 166235018		Project Name/Site Name: SCS Plant Scherer			Page: 1 of 1	
Well ID #: <u>SWC-6</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>    </u>		Time (WL): <u>    </u>		
Physical Condition of Well: <u>    </u>			Weather: <u>Sunny, ~78°F</u>			
Well Diameter (in): <u>8</u>	Well Depth (ft): <u>    </u>	Water Column (ft): <u>    </u>	Well Volume (gal): <u>    </u>			
Start Purge: <u>    </u>	End Purge: <u>    </u>	Top of Pump (ft): <u>    </u>				
Evacuation Method: <u>LOW Flow Surface Water</u>			Volume Removed (L): <u>    </u>			
Evacuation Equipment: <u>Surface Water</u>			Purging Personnel: <u>KM/Ci</u>			
SmarTroll serial #: <u>463068</u>			Lamotte serial #: <u>977-2111</u>			

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
10:05	clear	none	7.57	156.5	8.24	23.01	64.6	2.7	N/A	N/A

Stabilization Criteria: pH ± 0.1 S.U., Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: SWC-6      Sample Date/Time: 9-12-19 @ 10:05      Metals Date/Time: 9-12-19 @ 10:05  
 Duplicate:           Dup Date/Time:           Final Turbidity NTU: 2.7  
 Field Blank:           Blank Date/Time:           Turbidity Date/Time: 9-12-19 @ 10:05

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: *[Handwritten Signature]* *As sorted*



# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>SWC-7</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>      </u>	Time (WL): <u>      </u>
Physical Condition of Well: <u>      </u>		Weather: <u>Sunny, 27.8°C</u>	
Well Diameter (in): <u>2</u>	Well Depth (ft): <u>      </u>	Water Column (ft): <u>      </u>	Well Volume (gal): <u>      </u>
Start Purge: <u>      </u>	End Purge: <u>      </u>	Top of Pump (ft): <u>      </u>	
Evacuation Method: <u>Low-Flow</u>		Volume Removed (L): <u>      </u>	
Evacuation Equipment: <u>Surface Water</u>		Purging Personnel: <u>KM/CT</u>	
SmarTroll serial #: <u>463068</u>		Lamotte serial #: <u>977-2111</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft/BTOC)	Pumping Rate
<u>09:55</u>	<u>Clear</u>	<u>None</u>	<u>7.47</u>	<u>326.70</u>	<u>6.56</u>	<u>24.24</u>	<u>86.90</u>	<u>4.62</u>	<u>N/A</u>	<u>N/A</u>

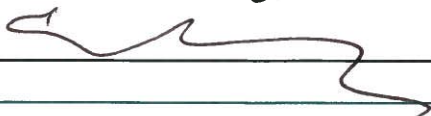
Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: SWC-7      Sample Date/Time: 9-12-19 @ 09:55      Metals Date/Time: 9-12-19 @ 09:55  
 Duplicate:             Dup Date/Time:             Final Turbidity NTU: 4.62  
 Field Blank:             Blank Date/Time:             Turbidity Date/Time: 9-12-19 @ 09:55

# Sample Bottles	Container	Preservative	Analyte(s)
	<u>250 mL plastic</u>	<u>HNO3</u>	<u>Metals App III &amp; IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA-6020/7470)</u>
	<u>500 mL plastic</u>	<u>--</u>	<u>Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)</u>
	<u>1 L plastic</u>	<u>HNO3</u>	<u>Radium 226/228 (SW-846 9315/9320)</u>

Assorted

Signature: 



# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: <u>1</u> of <u>1</u>
Well ID #: <u>SWC-8</u>	Date: <u>9-12-19</u>	Water Level (ft): <u>    </u>	Time (WL): <u>    </u>
Physical Condition of Well: <u>N/A</u>	Weather: <u>Sunny, ~90° F</u>		
Well Diameter (in): <u>    </u>	Well Depth (ft): <u>    </u>	Water Column (ft): <u>    </u>	Well Volume (gal): <u>    </u>
Start Purge: <u>    </u>	End Purge: <u>    </u>	Top of Pump (ft): <u>    </u>	
Evacuation Method: Low-Flow		Volume Removed (L): <u>    </u>	
Evacuation Equipment: <u>Surface water</u>		Purging Personnel: <u>KM/cm</u>	
SmarTroll serial #: <u>463068</u>		Lamotte serial #: <u>709 077-211</u>	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate
10:30	clear	none	7.29	520.10	6.53	24.05	81.1	2.79	N/A	N/A

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: SWC-8      Sample Date/Time: 9-12-19 @ 10:30      Metals Date/Time: 9-12-19 @ 10:30  
 Duplicate:           Dup Date/Time:           Final Turbidity NTU: 2.79  
 Field Blank:           Blank Date/Time:           Turbidity Date/Time: 9-12-19 @ 10:30

# Sample Bottles	Container	Preservative	Analyte(s)
	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic		Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: [Signature] *Assorted*



# PURGING AND SAMPLING FORM

Project #: 166235018	Project Name/Site Name: SCS Plant Scherer		Page: 1 of 1
Well ID #: Effluent	Date: 9-13-19	Water Level (ft):	Time (WL):
Physical Condition of Well:		Weather:	
Well Diameter (in): 2	Well Depth (ft):	Water Column (ft):	Well Volume (gal):
Start Purge:	End Purge:	Top of Pump (ft):	
Evacuation Method: Low-Flow		Volume Removed (L):	
Evacuation Equipment:		Purging Personnel:	
SmarTroll serial #:		Lamotte serial #:	

## Purge Data/Field Parameters

Time	Color & Appearance	Odor	pH (S.U.)	Cond. (uS/cm)	DO (mg/L)	Temp (C)	ORP (mV)	Turbidity (NTU)	DTW (ft BTOC)	Pumping Rate

From Unit 3 scrubber @ 08:50  
 w/ Kevin Folindae & William Cheely  
 (David & Robbie Jenkins unavailable)

Stabilization Criteria: pH ± 0.1 S.U, Conductivity ± 5%, Dissolved Oxygen ± 10% or 0.2Mg/L (whichever is greater; for DO < 0.5mg/L, record only, no stabilization criteria), Turbidity ≤ 5 NTU; Purge volume ≥ 3L purge water, water level ≤ 0.3 ft; Temp and ORP record only

## Sample Description

Sample ID: Effluent      Sample Date/Time: 9-13-19/0850      Metals Date/Time: \_\_\_\_\_

Duplicate: \_\_\_\_\_      Dup Date/Time: \_\_\_\_\_      Final Turbidity NTU: \_\_\_\_\_

Field Blank: \_\_\_\_\_      Blank Date/Time: \_\_\_\_\_      Turbidity Date/Time: \_\_\_\_\_

# Sample Bottles	Container	Preservative	Analyte(s)
1 (Ext'd HNO3)	250 mL plastic	HNO3	Metals App III & IV (As, Sb, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, V, Zn, Th, Hg) (EPA 6020/7470)
	500 mL plastic	--	Anions/Total Dissolved Solids (EPA 300.0/SM 2540C)
	1 L plastic	HNO3	Radium 226/228 (SW-846 9315/9320)

Signature: \_\_\_\_\_



**FIELD DATA FORMS**

# PAC ASH CELL



Product Name: Low-Flow System

Date: 2019-09-12 14:20:46

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 15 ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWA-21  
Well diameter 2 in  
Well Total Depth 20.6 ft  
Screen Length 10 ft  
Depth to Water 7.17 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.1569514 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 3.84 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:54:50	300.04	26.05	5.65	116.07	0.74	7.48	0.21	25.11
Last 5	13:59:50	600.02	25.76	5.74	124.80	2.03	7.49	0.68	25.64
Last 5	14:04:50	900.02	25.32	5.81	127.15	1.62	7.49	1.25	27.48
Last 5	14:09:50	1200.01	24.75	5.82	126.66	1.50	7.48	1.32	26.26
Last 5	14:14:50	1500.01	25.01	5.83	127.67	1.81	7.49	1.36	23.78
Variance 0			-0.44	0.07	2.35			0.56	1.85
Variance 1			-0.57	0.01	-0.49			0.07	-1.22
Variance 2			0.26	0.01	1.01			0.04	-2.48

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 13:12:39

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 37 ft

Pump placement from TOC 37 ft

Well Information:

Well ID GWA-22  
Well diameter 2 in  
Well Total Depth 42.5 ft  
Screen Length 10 ft  
Depth to Water 26.49 ft

Pumping Information:

Final Pumping Rate 156 mL/min  
Total System Volume 0.2551467 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.32 in  
Total Volume Pumped 3.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:47:22	300.03	24.15	5.85	76.66	0.73	26.90	4.20	34.41
Last 5	12:52:22	600.02	23.61	5.86	78.65	1.39	26.90	4.40	34.99
Last 5	12:57:22	900.02	23.38	5.86	79.64	2.94	26.87	4.37	36.54
Last 5	13:02:22	1200.01	24.06	5.88	78.52	3.51	26.87	4.42	36.38
Last 5	13:07:22	1500.02	24.10	5.87	81.25	4.02	26.85	4.42	37.03
Variance 0			-0.23	0.00	1.00			-0.03	1.55
Variance 1			0.68	0.01	-1.13			0.05	-0.16
Variance 2			0.05	-0.01	2.73			0.00	0.65

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-13 09:10:26

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis Peristaltic  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 31 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWA-45  
Well diameter 2 in  
Well Total Depth 36 ft  
Screen Length 10 ft  
Depth to Water 18.45 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 10.8 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	08:52:40	300.06	19.54	6.21	441.28	4.18	19.22	0.28	117.62
Last 5	08:57:40	600.01	19.19	5.98	444.50	3.76	19.32	0.18	107.50
Last 5	09:02:40	900.00	19.24	5.96	444.04	1.41	19.35	0.14	106.49
Last 5	09:07:40	1200.00	19.37	5.96	443.06	1.32	19.35	0.13	108.27
Last 5									
Variance 0			-0.35	-0.23	3.23			-0.11	-10.11
Variance 1			0.05	-0.02	-0.46			-0.03	-1.01
Variance 2			0.13	0.00	-0.98			-0.02	1.79

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 15:21:43

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID GWA-46  
Well diameter 2 in  
Well Total Depth 47 ft  
Screen Length 10 ft  
Depth to Water 33.7 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4024638 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 6.72 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:02:37	300.02	21.09	5.81	77.46	4.81	33.15	2.49	128.52
Last 5	15:07:37	600.01	20.92	5.82	77.70	2.88	33.16	2.49	129.01
Last 5	15:12:37	900.00	21.24	5.83	77.96	2.49	33.16	2.46	128.82
Last 5	15:17:37	1199.99	21.19	5.83	77.44	2.01	33.14	2.46	129.07
Last 5									
Variance 0			-0.16	0.01	0.23			-0.00	0.49
Variance 1			0.32	0.01	0.27			-0.03	-0.19
Variance 2			-0.05	0.00	-0.53			-0.00	0.24

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 13:51:54

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type SamplePro  
Tubing Type polyethylene  
Tubing Diameter .170 in  
Tubing Length 51.5 ft

Pump placement from TOC 51.5 ft

Well Information:

Well ID GWA-47  
Well diameter 2 in  
Well Total Depth 56.55 ft  
Screen Length 10 ft  
Depth to Water 39.33 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.4448663 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 19.44 in  
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:28:34	1799.98	19.86	6.48	133.48	9.55	40.96	3.76	130.82
Last 5	13:33:34	2099.97	20.21	6.48	133.28	8.53	40.97	3.72	130.78
Last 5	13:38:34	2399.99	20.32	6.49	133.29	7.34	40.95	3.70	130.89
Last 5	13:43:34	2699.98	20.17	6.47	133.49	5.42	40.96	3.71	131.94
Last 5	13:48:34	2999.95	20.53	6.49	133.13	4.75	40.95	3.67	131.47
Variance 0			0.11	0.01	0.01			-0.03	0.11
Variance 1			-0.15	-0.02	0.20			0.02	1.05
Variance 2			0.35	0.02	-0.36			-0.04	-0.47

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 11:54:16

Project Information:

Operator Name J. Quenneville  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 613179  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type QED Sample Pro  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 68.92 ft

Pump placement from TOC 68.92 ft

Well Information:

Well ID GWA-48  
Well diameter 2 in  
Well Total Depth 73.92 ft  
Screen Length 10 ft  
Depth to Water 37.78 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.7926192 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 15.84 in  
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:31:43	600.00	21.29	6.72	138.85	0.29	39.74	5.02	94.95
Last 5	11:36:43	900.00	22.13	6.75	139.94	0.38	39.80	5.04	96.44
Last 5	11:41:43	1199.99	22.01	6.77	139.21	0.35	39.36	4.96	100.97
Last 5	11:46:44	1500.99	22.19	6.77	138.80	1.60	39.18	4.99	105.12
Last 5	11:51:44	1800.98	22.24	6.78	139.18	2.98	39.10	5.07	108.35
Variance 0			-0.12	0.02	-0.73			-0.08	4.53
Variance 1			0.17	0.00	-0.41			0.03	4.15
Variance 2			0.05	0.00	0.39			0.08	3.22

Notes: pumping rate of 200mL/min for first 15 min

Grab Samples



Product Name: Low-Flow System

Date: 2019-09-12 13:58:48

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 36 ft

Pump placement from TOC 36 ft

Well Information:

Well ID GWA-49  
Well diameter 2 in  
Well Total Depth 41.01 ft  
Screen Length 10 ft  
Depth to Water 13.89 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.2506832 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 11.04 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:36:32	300.05	22.98	6.86	147.45	2.27	14.75	7.01	76.52
Last 5	13:41:32	600.02	22.11	6.85	148.09	5.35	14.78	7.24	74.08
Last 5	13:46:32	900.02	22.83	6.82	147.56	1.41	14.79	7.10	73.87
Last 5	13:51:32	1200.02	22.84	6.82	145.87	1.42	14.80	7.06	75.38
Last 5	13:56:32	1500.01	23.01	6.82	145.57	1.51	14.81	7.14	77.32
Variance 0			0.71	-0.02	-0.53			-0.14	-0.21
Variance 1			0.01	-0.01	-1.69			-0.03	1.51
Variance 2			0.16	0.00	-0.31			0.08	1.94

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 15:55:49

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-29  
Well diameter 2 in  
Well Total Depth 27.0 ft  
Screen Length 10 ft  
Depth to Water 6.00 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 1.32 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:31:49	300.02	24.87	6.01	147.89	3.07	6.12	0.52	100.28
Last 5	15:36:49	600.02	24.37	5.99	149.83	2.11	6.11	0.39	100.99
Last 5	15:41:49	900.02	23.97	5.99	148.34	2.23	6.11	0.32	104.26
Last 5	15:46:49	1200.02	23.70	5.98	147.64	0.45	6.11	0.29	107.92
Last 5	15:51:49	1500.02	23.58	5.98	147.54	0.50	6.11	0.27	112.24
Variance 0			-0.40	-0.00	-1.49			-0.06	3.28
Variance 1			-0.27	-0.00	-0.70			-0.03	3.66
Variance 2			-0.12	-0.01	-0.10			-0.02	4.31

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-13 10:44:26

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 31 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWC-50  
Well diameter 2 in  
Well Total Depth 36.30 ft  
Screen Length 10 ft  
Depth to Water 9.60 ft

Pumping Information:

Final Pumping Rate 168 mL/min  
Total System Volume 0.2283661 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 5.88 in  
Total Volume Pumped 3.36 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:24:48	300.04	21.68	5.78	83.42	0.62	10.07	0.33	21.74
Last 5	10:29:48	600.02	21.25	5.78	84.14	0.91	10.11	0.25	23.98
Last 5	10:34:48	900.02	21.18	5.78	83.97	0.39	10.11	0.23	27.72
Last 5	10:39:48	1200.01	21.03	5.78	83.85	0.44	10.09	0.26	30.56
Last 5									
Variance 0			-0.43	0.00	0.72			-0.08	2.24
Variance 1			-0.07	-0.00	-0.17			-0.02	3.74
Variance 2			-0.15	0.00	-0.12			0.03	2.83

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 14:52:46

Project Information:

Operator Name C. Tidwell  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 463453  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-51  
Well diameter 2 in  
Well Total Depth 26.8 ft  
Screen Length 10 ft  
Depth to Water 9.39 ft

Pumping Information:

Final Pumping Rate 200 mL/min  
Total System Volume 0.1881953 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.76 in  
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:29:42	300.03	25.33	6.24	95.51	3.78	9.61	0.42	72.83
Last 5	14:34:42	600.02	24.83	6.04	95.67	5.11	9.62	0.30	71.96
Last 5	14:39:42	900.02	25.38	5.94	95.17	1.57	9.61	0.25	73.39
Last 5	14:44:42	1200.02	24.78	5.89	93.43	0.92	9.61	0.21	77.50
Last 5	14:49:42	1500.02	24.65	5.86	91.81	0.96	9.62	0.19	82.95
Variance 0			0.55	-0.09	-0.51			-0.05	1.43
Variance 1			-0.60	-0.05	-1.73			-0.03	4.10
Variance 2			-0.14	-0.03	-1.62			-0.02	5.45

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-12 16:03:59

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 27.5 ft

Pump placement from TOC 27.5 ft

Well Information:

Well ID GWC-52  
Well diameter 2 in  
Well Total Depth 32.8 ft  
Screen Length 10 ft  
Depth to Water 9.46 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.2127441 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 2.16 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:38:39	300.02	23.70	6.70	204.18	0.61	9.63	0.26	37.88
Last 5	15:43:39	600.02	22.44	6.69	207.75	0.48	9.64	0.22	37.91
Last 5	15:48:39	900.02	22.28	6.69	207.29	0.65	9.64	0.26	37.70
Last 5	15:53:39	1200.01	22.21	6.69	203.34	0.54	9.64	0.26	37.90
Last 5	15:58:39	1500.01	22.49	6.68	205.40	0.93	9.64	0.27	37.41
Variance 0			-0.16	-0.00	-0.46			0.05	-0.20
Variance 1			-0.08	0.00	-3.95			-0.00	0.20
Variance 2			0.28	-0.01	2.06			0.00	-0.49

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-13 09:30:07

Project Information:

Operator Name A. McClure  
Company Name Golder  
Project Name 166235018  
Site Name Plant Scherer  
Latitude 0° 0' 0"  
Longitude 0° 0' 0"  
Sonde SN 642531  
Turbidity Make/Model LaMotte 2020we

Pump Information:

Pump Model/Type Alexis  
Tubing Type polyethylene  
Tubing Diameter .17 in  
Tubing Length 28 ft

Pump placement from TOC 28 ft

Well Information:

Well ID GWC-53  
Well diameter 2 in  
Well Total Depth 32.8 ft  
Screen Length 10 ft  
Depth to Water 11.95 ft

Pumping Information:

Final Pumping Rate 160 mL/min  
Total System Volume 0.2149758 L  
Calculated Sample Rate 300 sec  
Stabilization Drawdown 4.2 in  
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond $\mu$ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:04:55	300.06	20.67	5.64	423.63	0.87	12.30	0.35	64.56
Last 5	09:09:55	600.02	20.25	5.61	426.59	0.63	12.30	0.21	56.56
Last 5	09:14:55	900.02	20.41	5.59	426.45	0.36	12.30	0.17	52.30
Last 5	09:19:55	1200.01	20.65	5.58	425.93	0.54	12.30	0.15	49.44
Last 5	09:24:55	1500.01	20.69	5.55	426.80	0.53	12.30	0.14	47.73
Variance 0			0.16	-0.01	-0.14			-0.03	-4.26
Variance 1			0.25	-0.02	-0.52			-0.02	-2.85
Variance 2			0.04	-0.03	0.87			-0.01	-1.71

Notes

Grab Samples



**APPENDIX B**

# ALTERNATE SOURCE DEMONSTRATION

April 29, 2019

Mr. Steve McManus  
Solid Waste Management Program  
Environmental Protection Division  
4244 International Parkway, Suite 104  
Atlanta, Georgia 30354

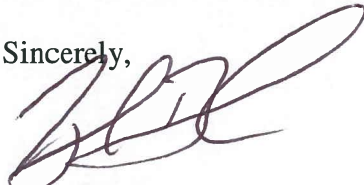
Subject: Georgia Power Company  
Plant Scherer Coal Combustion By-Product  
Private Industry Solid Waste Disposal Facility  
Permit No. 102-009D(LI)  
Alternate Source Demonstration

Dear Mr. McManus:

Please find enclosed an Alternate Source Demonstration (ASD) for the Plant Scherer CCB facility. This ASD is for statistically significant increases determined and reported in the 2<sup>nd</sup> Semi-Annual 2018 event.

If you have any questions about this submittal, please contact me at 404-506-2886.

Sincerely,



Tyler Boyles  
Environmental Specialist



**REPORT**

# Alternate Source Demonstration Second Semi-Annual 2018 Monitoring Event

*Plant Scherer Cell 1 and PAC Ash Cell  
Permit No. 102.009D(LI)*

Submitted to:



**Georgia Power Company**

241 McGill Boulevard, NE, Atlanta, Georgia 30308

Submitted by:

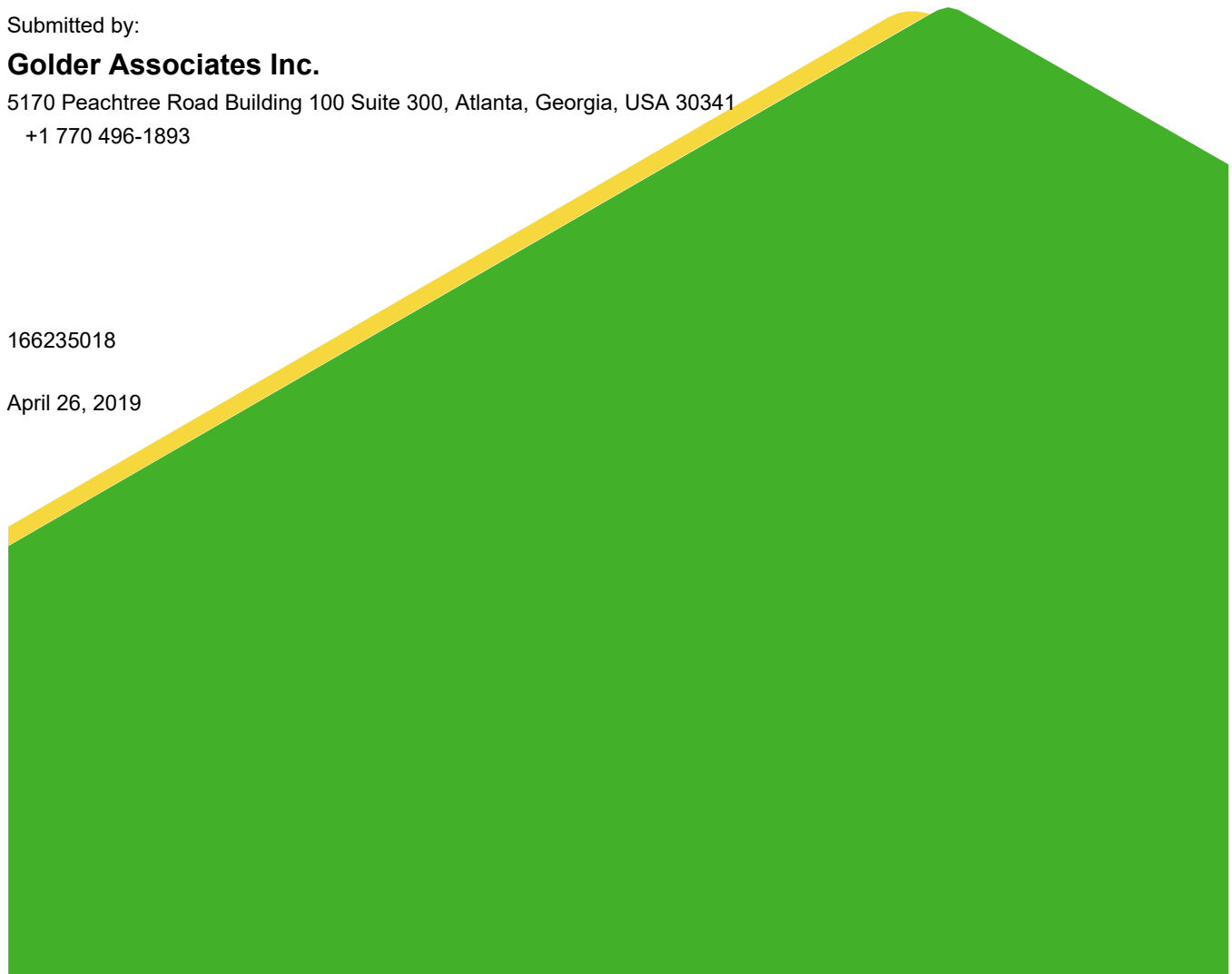
**Golder Associates Inc.**

5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341

+1 770 496-1893

166235018

April 26, 2019



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## APPENDICES

Appendix A	Time Series Plots
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## 1.0 INTRODUCTION

Golder Associates Inc. (Golder) has prepared this Alternate Source Demonstration (ASD) on behalf of Georgia Power Company (GPC)'s Plant Scherer Cell 1 and PAC Ash Cell, in accordance with §391-3-4-.14.23.c of the GA Solid Waste Management Rules, to address the statistically significant increases (SSIs) identified following the second semi-annual 2018 detection monitoring event conducted in October 2018. This demonstration is presented to document that a source other than the landfill unit caused the SSIs or that an error in sampling, laboratory analyses, statistical evaluation, or natural variability resulted in the reported SSIs.

The SSIs identified following the October 2018 monitoring event for the Cell 1 and PAC Ash Cell coal combustion residuals (CCR) landfill units are presented in the 2nd Semi-Annual 2018 Groundwater Monitoring Report, Georgia Power Plant Scherer Cell 1 and PAC Ash Cell, February 18, 2019 and are summarized in Table 1 below:

**Table 1: October 2018 Intra-Well Prediction Limit Statistical Exceedance Summary**

Well	Initial/Verified	Parameter	Concentration (mg/L)	Intra-well Prediction Limit	Georgia MCL/SMCL (mg/L) <sup>[3]</sup>
<b>CELL 1</b>					
GWC-4	Verified	Chloride	13	10.96	250
GWC-8A	Initial	pH	7.26	6.24 - 7.11	5.5-7.5
GWC-10	Initial	Chloride	2.6	2.453	250
GWC-11	Initial	Zinc	0.022	0.01	5
GWA-15 <sup>[2]</sup>	Initial	Chloride	6.3	5.716	250
GWC-20 <sup>[1]</sup>	Initial	Total Dissolved Solids	130	129.9	500
<b>PAC ASH CELL</b>					
GWA-21 <sup>[2]</sup>	Verified	Chloride	3.595	4.0	250
GWA-21 <sup>[2]</sup>	Verified	Sulfate	1.77	1.9	250
GWC-29	Initial	Barium	0.018	0.01694	2
GWC-29	Verified	Calcium	10	9.895	N/R
GWC-29	Initial	pH	5.91	5.738 – 5.86	5.5-7.5
GWC-29	Initial	Total Dissolved Solids	130	108.4	500
GWA-45 <sup>[2]</sup>	Initial	Boron	0.89	0.7233	N/R
GWA-46 <sup>[2]</sup>	Verified	Chloride	3.9	3.295	250
GWA-48 <sup>[2]</sup>	Initial	pH	6.92	6.595 – 6.869	5.5-7.5
GWA-49 <sup>[2]</sup>	Initial	pH	7.0	6.683 – 6.979	5.5-7.5
GWC-50	Initial	pH	5.98	5.738 – 5.911	5.5-7.5
GWC-50	Initial	Total Dissolved Solids	110	94.7	500
GWC-52 <sup>[1]</sup>	Initial	Barium	0.013	0.01277	2
GWC-52	Initial	Chromium	0.016	0.01212	0.1
GWC-52	Verified	Sulfate	23	14.5	250
GWC-52	Initial	Total Dissolved Solids	190	131	500
GWC-53	Verified	Chloride	12	10.07	250
GWC-53	Initial	Cobalt	0.016	0.01182	N/R

Well	Initial/Verified	Parameter	Concentration (mg/L)	Intra-well Prediction Limit	Georgia MCL/SMCL (mg/L) <sup>[3]</sup>
GWC-53	Initial	Sulfate	170	161.5	250
GWC-53	Initial	Total Dissolved Solids	320	262.6	500

**Notes:**

mg/L = milligrams per liter

N/R = indicates constituent is not regulated by Hazardous Site Response Act.

- [1] Each of these exceedances would not result if the limit were rounded to the same number of significant digits as the observed result and is the result of error in statistical evaluation (i.e., rounding error). Because the SSI was triggered in this manner, an Alternate Source Demonstration (ASD) is not warranted and has not been presented in this report. Additionally, time series plots show that more recent data are essentially at the prediction limit.
- [2] This well is upgradient of a lined landfill unit. Groundwater flow directions observed during the October 2018 event are consistent with historical data and confirms the upgradient position of these wells. Because of this, an SSI at these wells cannot be attributed to the Cell 1 and PAC Ash units but rather natural variability in groundwater chemistry or an alternate source. As a result, an ASD for the exceedances at upgradient wells is not warranted and has not been presented.
- [3] Georgia MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

## 2.0 ALTERNATE SOURCE DEMONSTRATION

Groundwater monitoring under state permitting requirements at Cell 1 and PAC has been ongoing since 2010. SSIs for state monitoring parameters noted following the October 2018 monitoring are similar to those previously identified. An ASD for previous SSIs has been presented in Alternate Source Demonstration for Landfill Cell 1 Groundwater Monitoring Network, dated December 2016, which was submitted to Georgia Environmental Protection Division (GA EPD) on behalf of Plant Scherer. A follow up ASD (Alternate Source Demonstration First Semi-Annual 2017 Plant Scherer Permit No. 102-009D, Cell 1 and PAC Ash Landfill, dated August 18, 2017) was also submitted to GA EPD. A summary of those ASDs as they relate to the current SSIs of certain monitoring parameters is summarized in the paragraphs below.

Monitoring wells GWA-15, GWA-21, GWA-45, GWA-46, GWA-48, and GWA-49 are located upgradient of the PAC Ash Cell. Groundwater flow rate and direction observed following the October 2018 monitoring event are consistent with historical results. Therefore, the statistical exceedances noted for these wells cannot be attributed to a release from the unit, and therefore an ASD is not warranted and has not been presented herein.

An initial statistical exceedance of TDS at GWC-20 and an initial exceedance of Barium at GWC-52 were noted following the October 2018 monitoring event. Each of these exceedances would not result if the limit were rounded to the same number of significant digits as the observed result and is the result of error in statistical evaluation (i.e., rounding error). Because the SSI was triggered in this manner, an Alternate Source Demonstration (ASD) is not warranted and has not been presented in this report. Additionally, time series plots show that more recent data are essentially at the prediction limit.

The following discussion is provided regarding the remaining apparent statistical exceedances in selected monitoring wells at Cell 1 and PAC Ash.

In general, the wells appear to be in equilibrium with naturally occurring groundwater chemistry. (Hem, 1985)<sup>1</sup> The chemical composition of the natural groundwater is derived from different sources of solutes including

<sup>1</sup> Study and Interpretation of the Chemical Characteristics of Natural Water, John D. Hem, U.S. Geological Survey Water – Supply Paper 2254, 1985



weathering and erosion of rocks and soil. The following paragraphs provide details per constituent/well regarding the SSIs observed following the October 2018 monitoring event.

## 2.1 Barium (GWC-29)

Review of groundwater quality data at monitoring well GWC-29 indicate that the data appear to be in equilibrium with naturally occurring barite minerals. Naturally occurring barium is present in the target soil horizons at concentrations ranging from 223 – 350 mg/kg (USGS Site # 5072)<sup>2</sup>. Site specific background groundwater concentrations upgradient of the facility have been calculated at 0.06 mg/L which is greater than the observed concentrations at monitoring well GWC-29 (0.018 mg/L). Barium concentrations in groundwater reflect natural abundance of barite minerals in the Piedmont region and its natural variability in the flow paths. The reported concentrations of barium are significantly below the MCL (2 mg/L).

## 2.2 Chloride (GWC-4, GWC-10 and GWC-53)

Verified statistical exceedances of chloride were identified at monitoring wells GWC-4, GWC-10 and GWC-53 following the October 2018 monitoring event. The reported concentrations (13 mg/L, 2.6 mg/L and 12 mg/L, respectively) are very low for natural groundwater and are within the range of concentrations observed at upgradient monitoring wells (15-20 mg/L). Each of these wells is downgradient of a lined landfill. The reported concentrations are well below the MCL (250 mg/L). Based on these facts, the statistical exceedances of chloride at monitoring wells GWC-4, GWC-10 and GWC-53 are the result of variability in natural groundwater chemistry. GPC will continue to monitor the concentrations of chloride from these wells following the next scheduled sampling event.

## 2.3 Calcium (GWC-29)

A verified statistical exceedance of calcium was observed at GWC-29 following the October 2018 sampling event. Review of the time series plots show very little variability in concentrations. As a result, slight increases in concentration can trigger a statistical exceedance. Reported concentrations are well within the range observed at other on-site wells and are below concentrations observed at upgradient (background wells). Based on these facts, the reported SSI of calcium at GWC-29 is the result of natural variability in groundwater chemistry and not the result of a release from the landfill unit.

## 2.4 Chromium (GWC-52)

Review of chromium concentrations at GWC-52 indicates the data appear to be in equilibrium with naturally groundwater chemistry. The reported concentration (0.016 mg/L) is within the range of concentrations observed across the site (0.005 mg/L to 0.045 mg/L). Naturally occurring chromium is present in the target soil horizons at concentrations ranging from 41 – 51 mg/kg (USGS Site # 5072)<sup>2</sup>. Site specific background groundwater concentrations calculated from wells upgradient of the facility is 0.015 mg/L which is only slightly below the concentrations at monitoring well GWC-52 (0.016 mg/L). Based on this information, the apparent SSI of chromium at GWC-52 is the result of natural variability and not a release from the landfill unit.

---

<sup>2</sup> US Soil geochemical landscape site 35072, Monroe County, Georgia, [https://mrdata.usgs.gov/ds-801/show-landscape.php?site\\_id=5072](https://mrdata.usgs.gov/ds-801/show-landscape.php?site_id=5072), 2009. [https://mrdata.usgs.gov/ds-801/show-landscape.php?site\\_id=5072](https://mrdata.usgs.gov/ds-801/show-landscape.php?site_id=5072).

## 2.5 Cobalt (GWC-53)

An alternate source demonstration specifically for cobalt has been presented for Plant Scherer. In summary, the presence of cobalt in site groundwater is dependent on the natural pH. As such, the reported concentrations of cobalt at monitoring well GWC-53 are the result of natural variability in groundwater chemistry and not the result of a release from the landfill unit.

## 2.6 pH (GWC-8A, GWC-29, GWC-50)

Initial statistical exceedances of pH were identified at GWC-8A, GWC-29 and GWC-50 following the October 2018 monitoring event. Review of time series plots (attached) for pH site wide shows that the reported pH at wells GWC-8A, GWC-29 and GWC-50 is within the range of natural groundwater. The reported concentrations of pH are not part of any trend and are within the range established by the Georgia SMCL (5.5-7.5 S.U). Based on these facts, the statistical exceedances of pH at monitoring wells GWC-8A, GWC-29 and GWC-50 are the result of natural variability and not a result of a release from the landfill unit. Reported pH concentrations are likely elevated at these locations due to the presence of calcium carbonate in the rock formations, possibly along he fractures lined with mafic minerals.

## 2.7 Sulfate (GWC-52 and GWC-53)

An initial statistical exceedance of sulfate was identified at GWC-53 while the exceedance reported at GWC-52 is verified following the October 2018 monitoring event. Review of time series plots show little variability in the concentrations of sulfate at GWC-52, as a result a slight increase in concentration will trigger a statistical exceedance. Review of data for GWC-53 while elevated above background, is not part of any trend and is within the range of concentrations observed at upgradient well GWA-45. Based on these facts, the apparent statistical exceedances of sulfate identified at GWC-52 and GWC-53 are the result of natural variability in groundwater chemistry and not the result of a release from the landfill unit.

## 2.8 TDS (GWC-29, GWC-52, and GWC-53)

Initial statistical exceedances of TDS were identified at monitoring wells GWC-29, GWC-52 and GWC-53 following the October 2018 monitoring event. Review of time series plots for these well show that the reported concentrations of TDS at these wells are within the range of observed at other site monitoring wells (both upgradient and downgradient of the facility). Review of trend analyses (attached) does not indicate increasing trends for TDS at any of the site monitoring wells. Based on these facts, the reported statistical exceedances of TDS at monitoring wells GWC-29, GWC-52 and GWC-53 are the result of natural variability in groundwater chemistry. Plant Scherer will continue to evaluate the groundwater quality data at these wells following the next scheduled sampling event.

## 2.9 Zinc (GWC-11)

An initial statistical exceedance of zinc was noted for well GWC-11 following the October 2018 sampling event. The reported concentration for zinc (0.022 mg/L) is slightly above the reporting limit (0.02 mg/L). We also note that the reported concentrations are well below the established MCL (5 mg/L). Review of analytical data suggests that the reported concentration of zinc at GWC-11 is likely the result of variability in laboratory or sampling protocol. This apparent statistical exceedance is a single parameter, single well exceedance. A release from the unit would result in multiple parameter exceedances and increasing trends which are not observed at GWC-11. Based on these facts, the exceedance of zinc at GWC-11 is not the result of a release from the landfill unit.

### 3.0 CONCLUSIONS

This ASD has been prepared in accordance with §391-3-4-.14.23.c of the GA Solid Waste Management Rules, in response to SSIs identified following the October 2018 sampling event and presented in the 2nd Semi-Annual 2018 Groundwater Monitoring Report, Georgia Power Plant Scherer Cell 1 and PAC Ash Cell, February 18, 2019.

Review of analytical results and statistical analyses developed for the site indicates that each of the statistical exceedances presented in the 2nd Semi-Annual 2018 Report are not the result of a release from the landfill units, but rather the exceedances can be attributed to natural variability in groundwater chemistry or variability in sampling or laboratory protocol. The monitoring well network continues to effectively monitor the water bearing unit beneath the Cell 1 and PAC Ash units. Based on the findings presented herein, GPC will continue with detection groundwater monitoring at Cell 1 and PAC Ash Cell.

## Signature Page

**Golder Associates Inc.**



Dawn L. Prell  
*Senior Hydrogeologist*



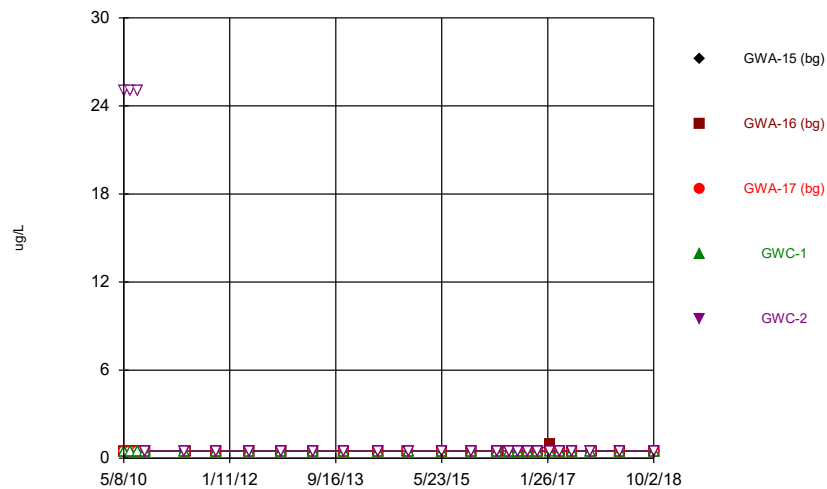
Rachel P. Kirkman, PG  
*Associate, Senior Consultant*

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[https://golderassociates.sharepoint.com/sites/24912g/project files/200 reports/alternate source demonstrations/1-2019 landfill/state rule asd/asd\\_state permit cell 1-pac 4.26.2019\\_final.docx](https://golderassociates.sharepoint.com/sites/24912g/project%20files/200%20reports/alternate%20source%20demonstrations/1-2019%20landfill/state%20rule%20asd/asd_state%20permit%20cell%201-pac%204.26.2019_final.docx)

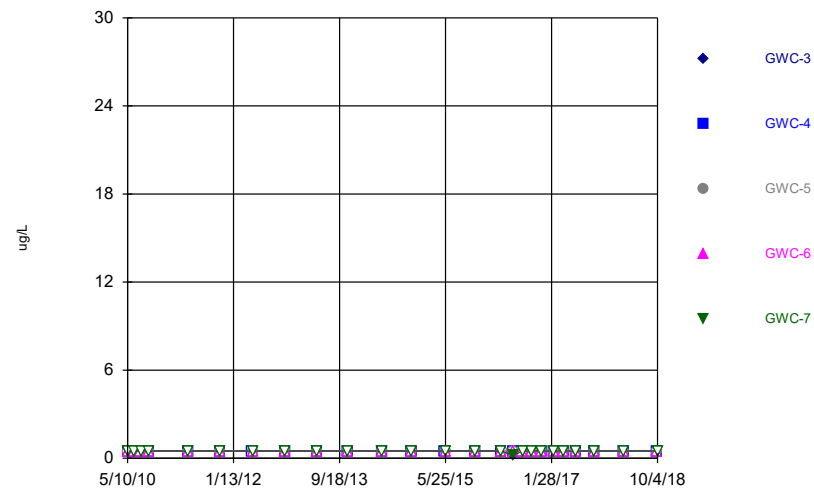
**APPENDIX A**  
**TIME SERIES PLOTS**

### Time Series



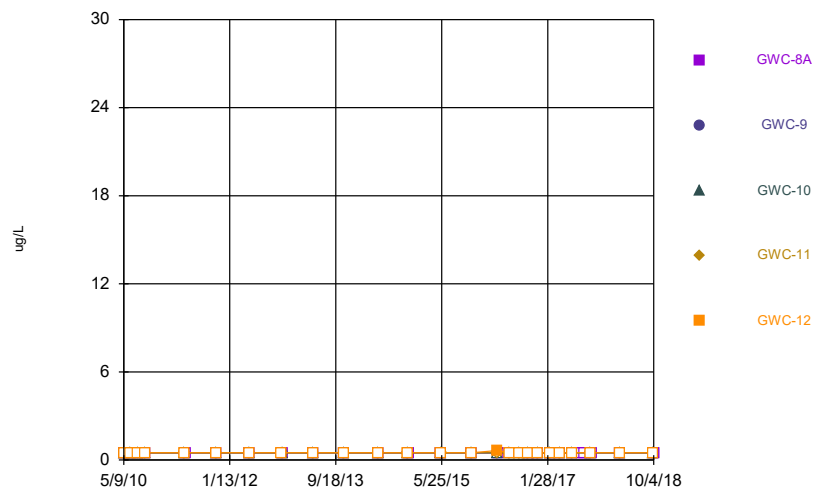
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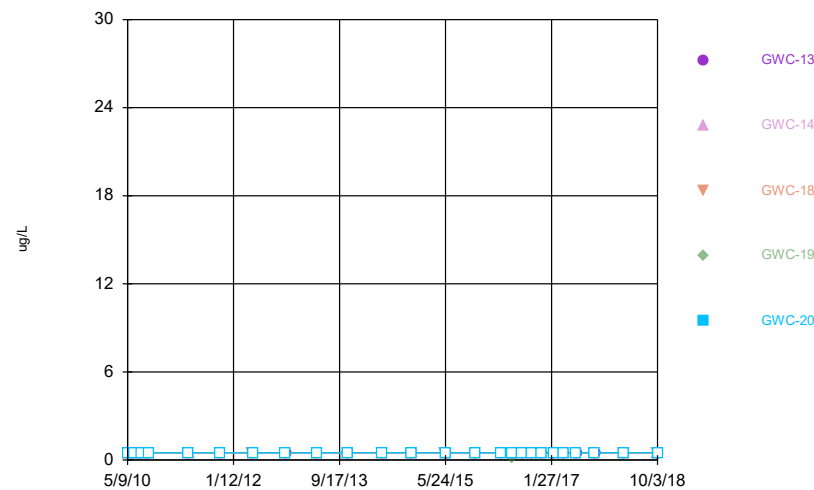
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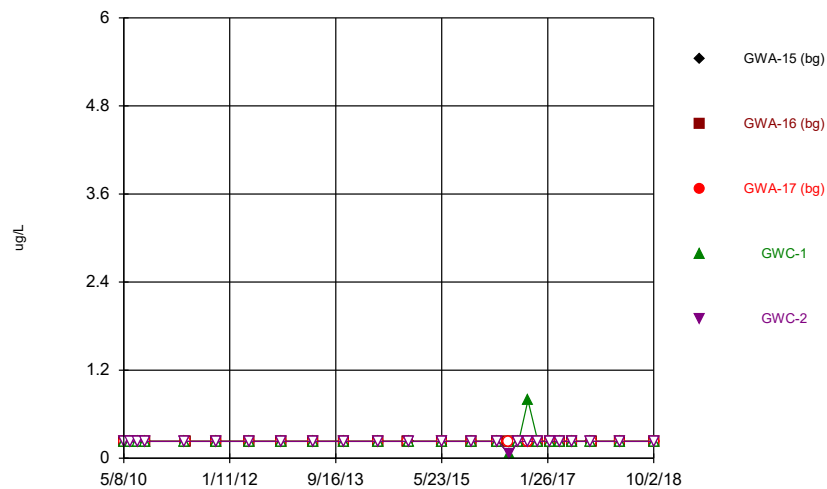
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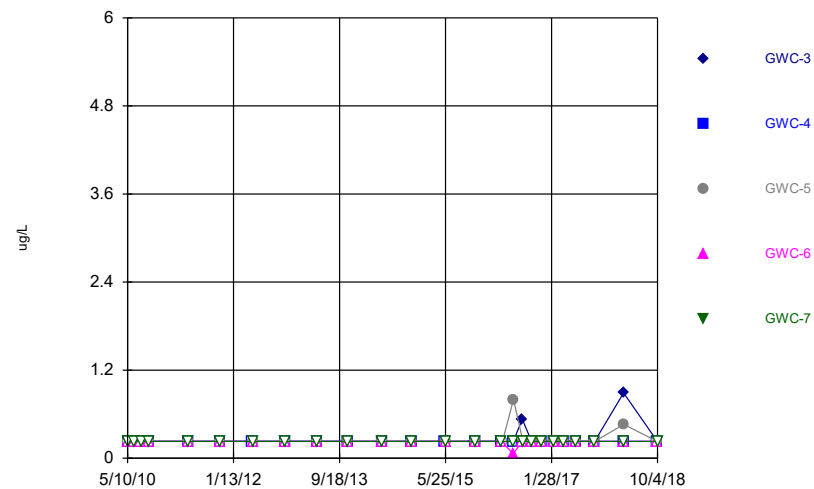


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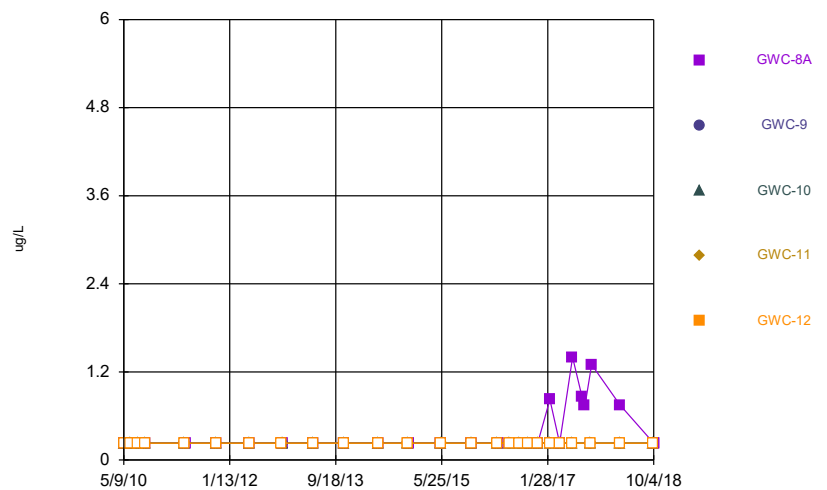
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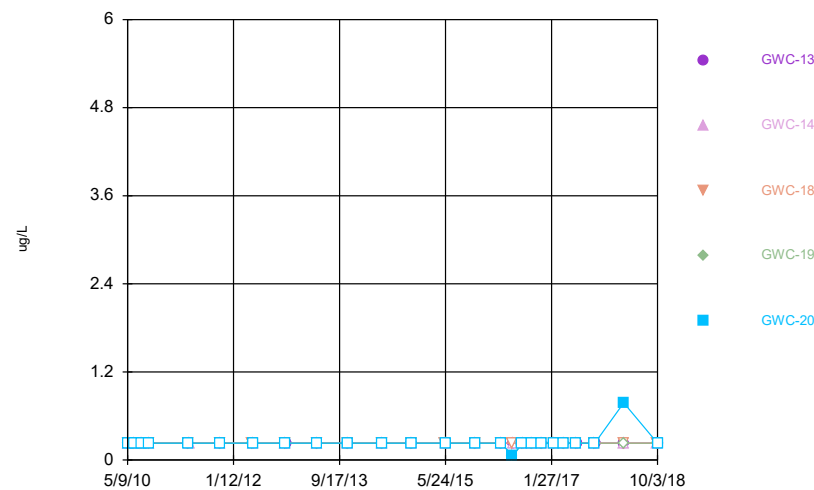
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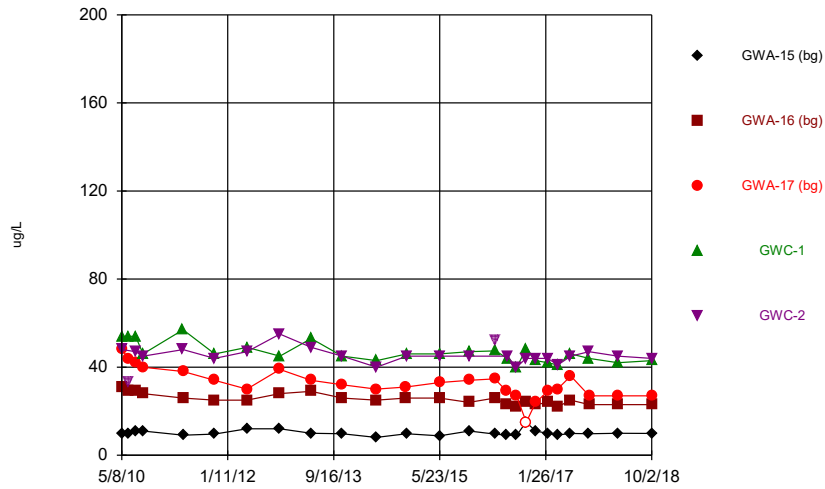
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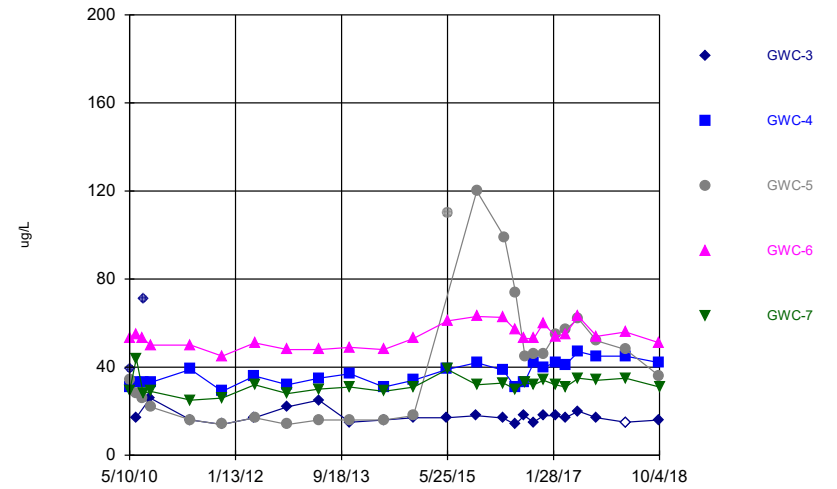
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Time Series



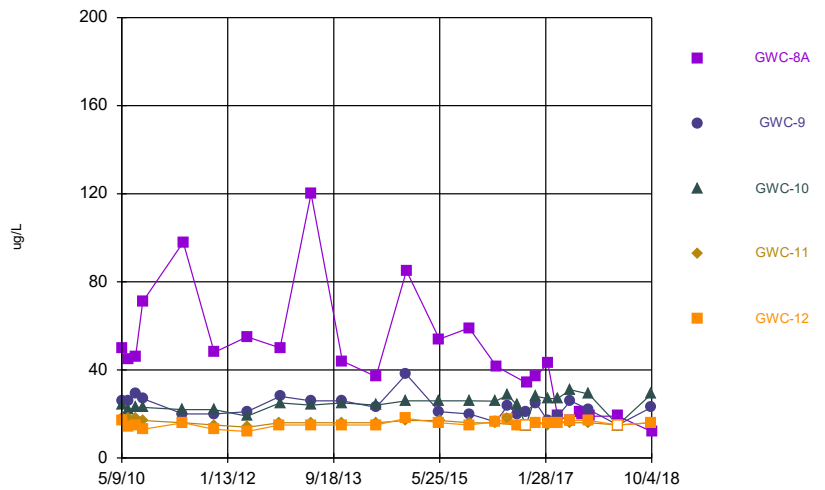
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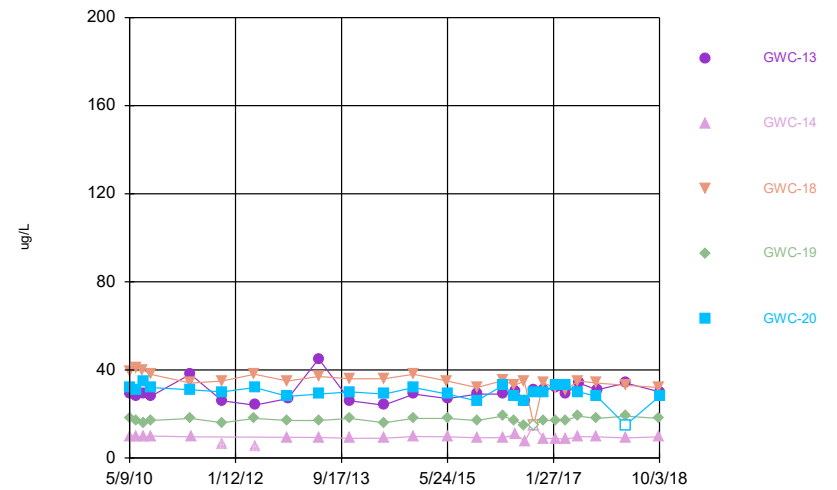
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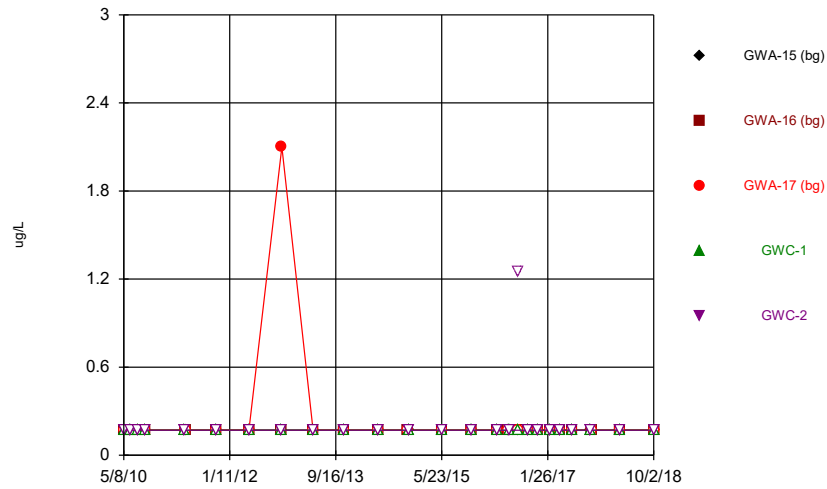
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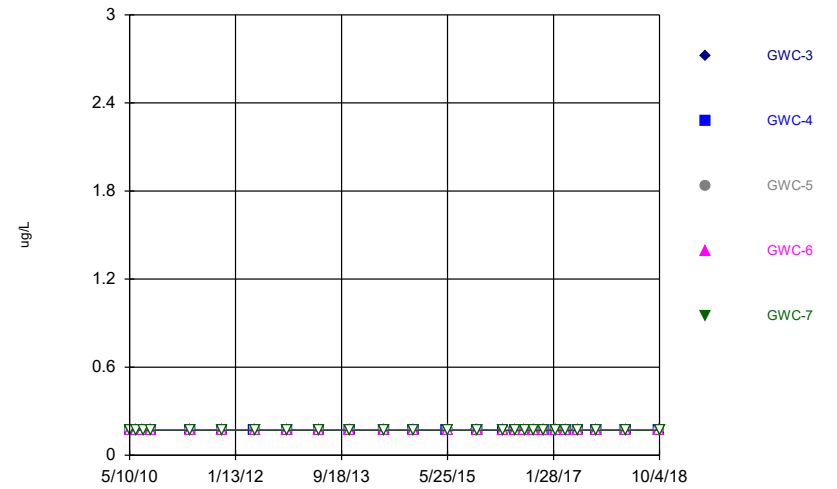
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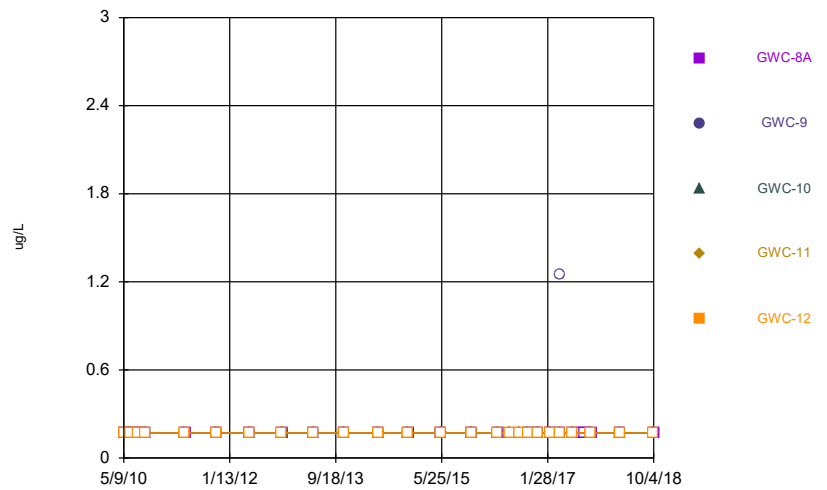
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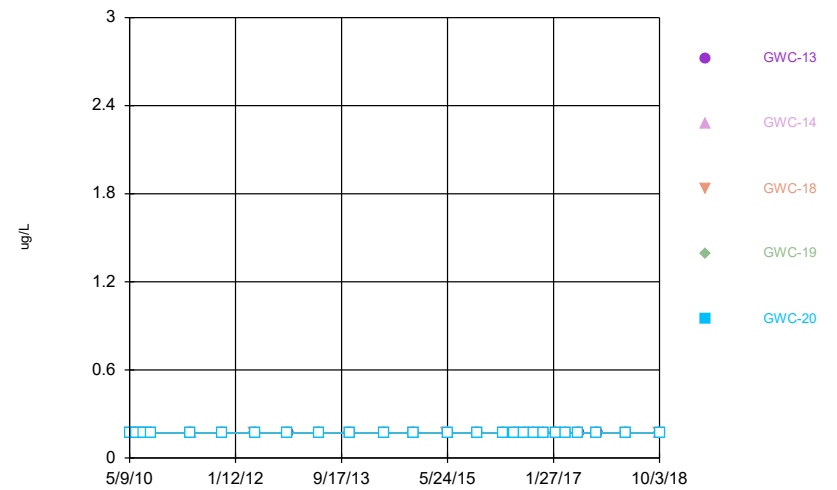
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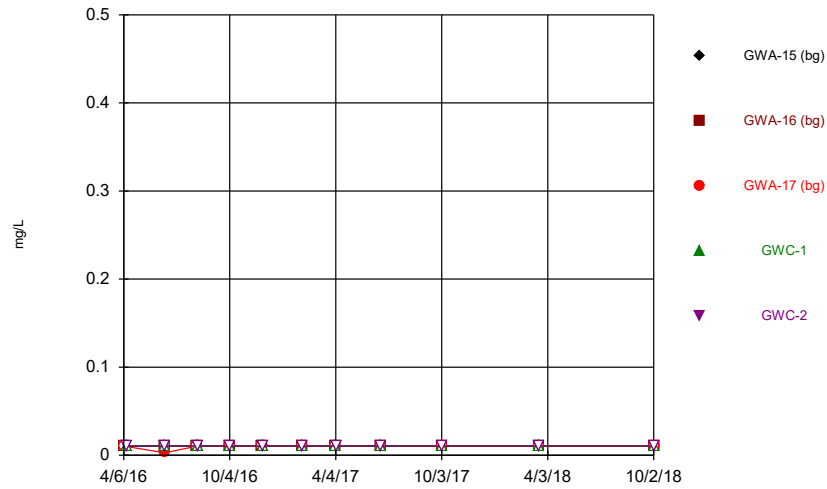
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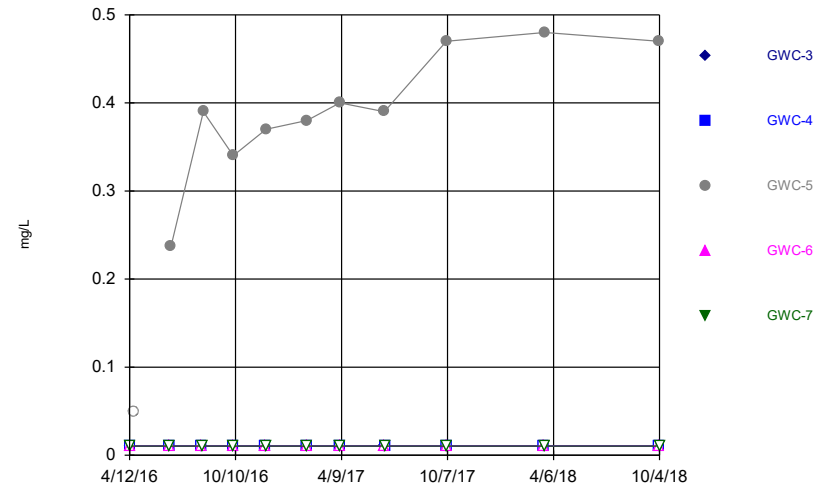
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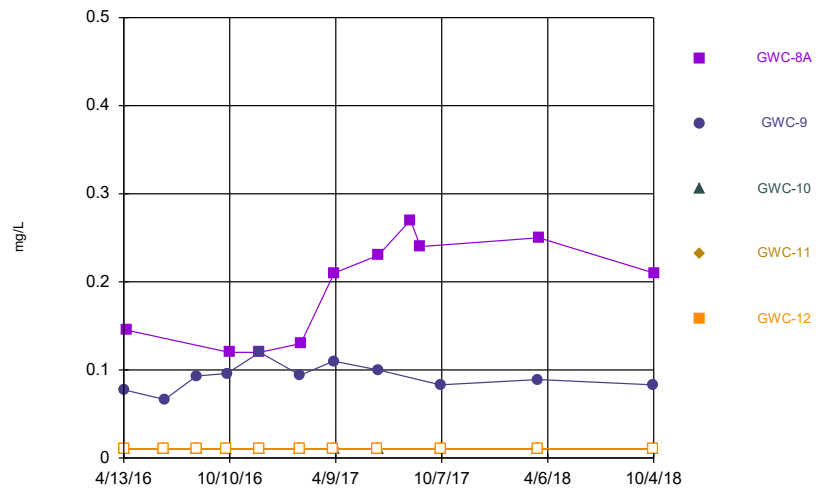
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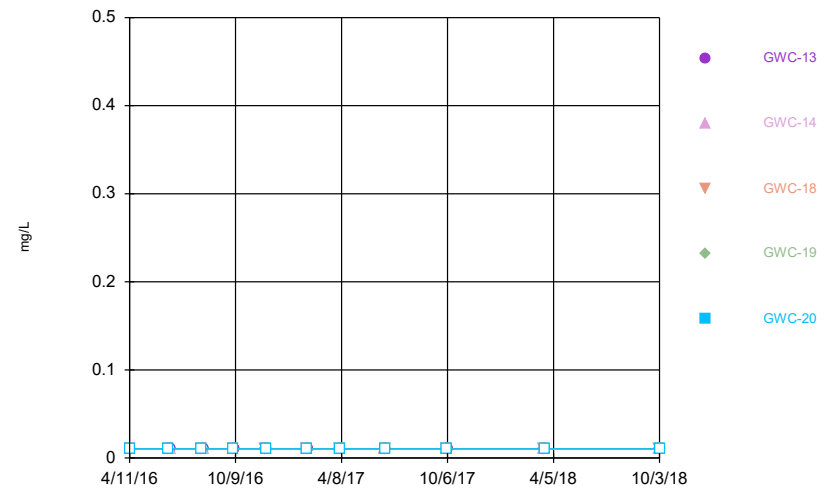
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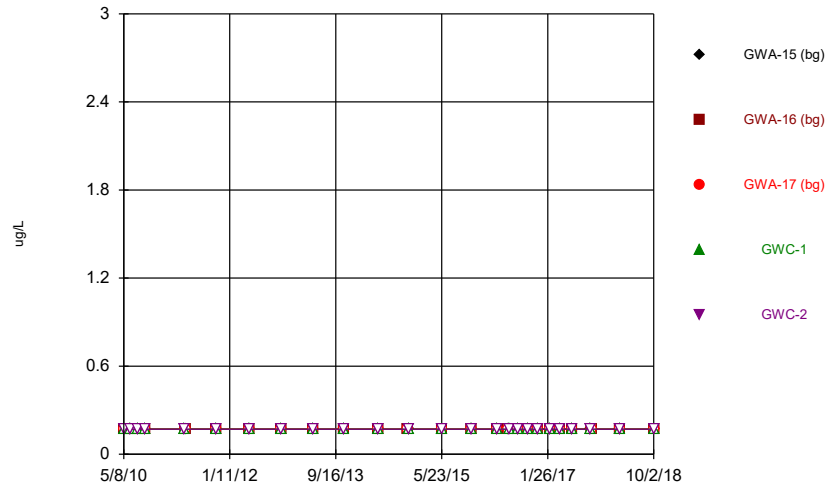
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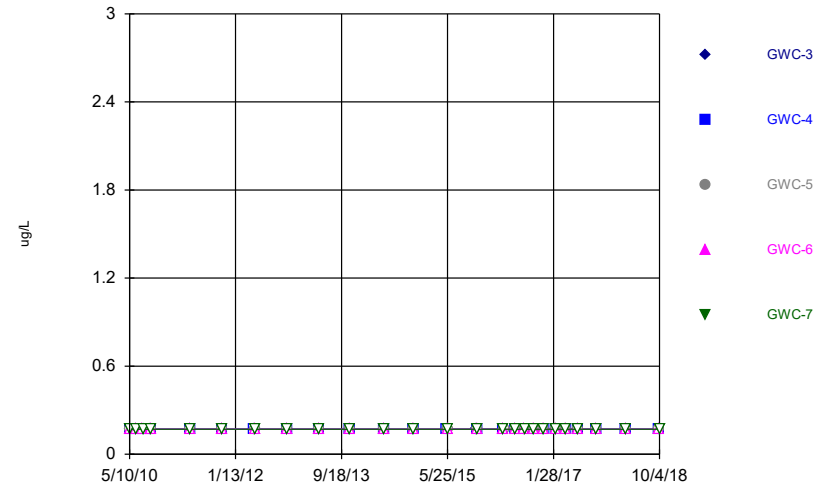
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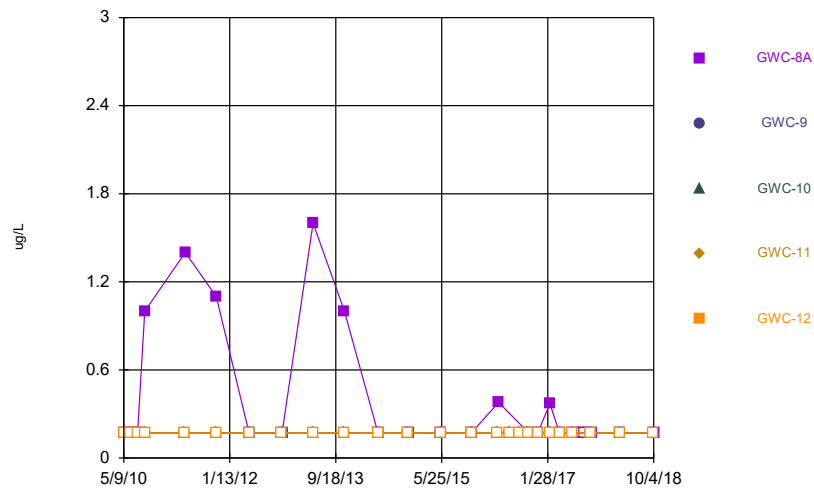
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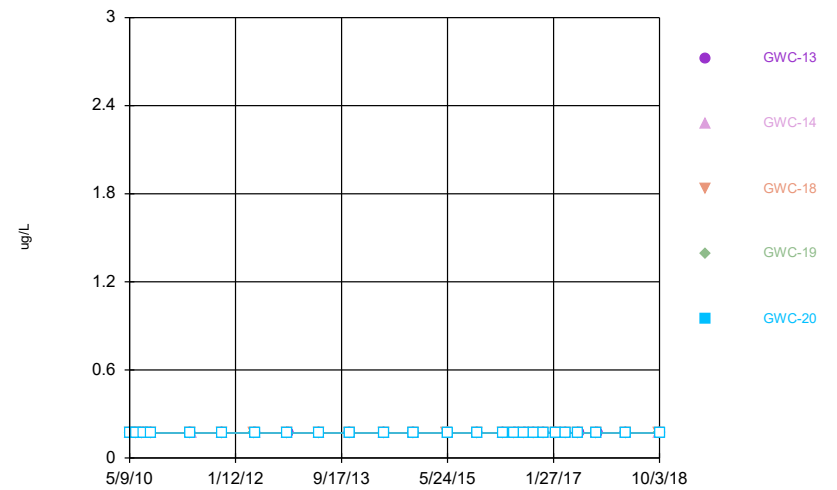
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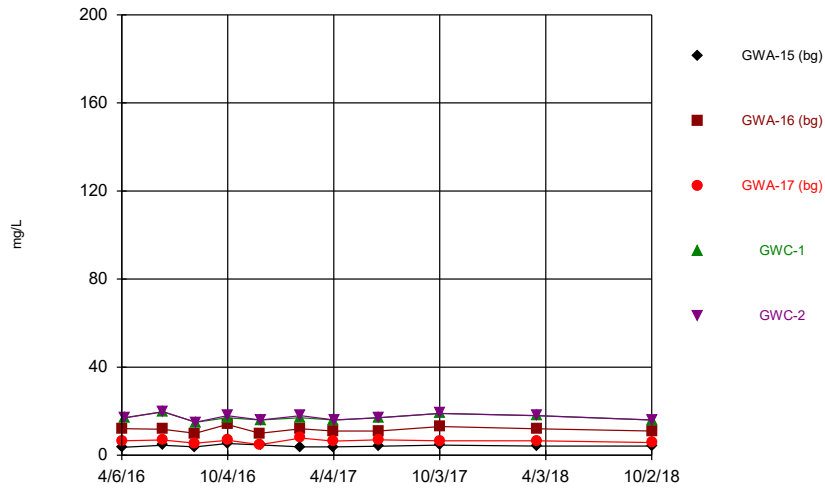
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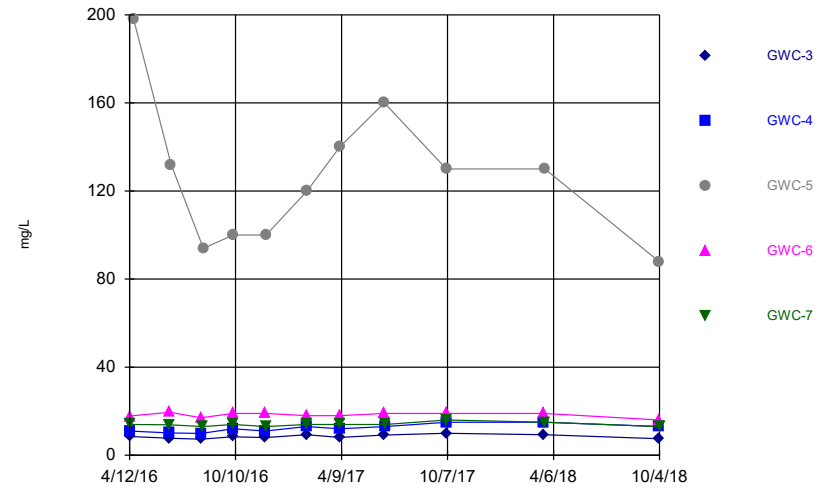
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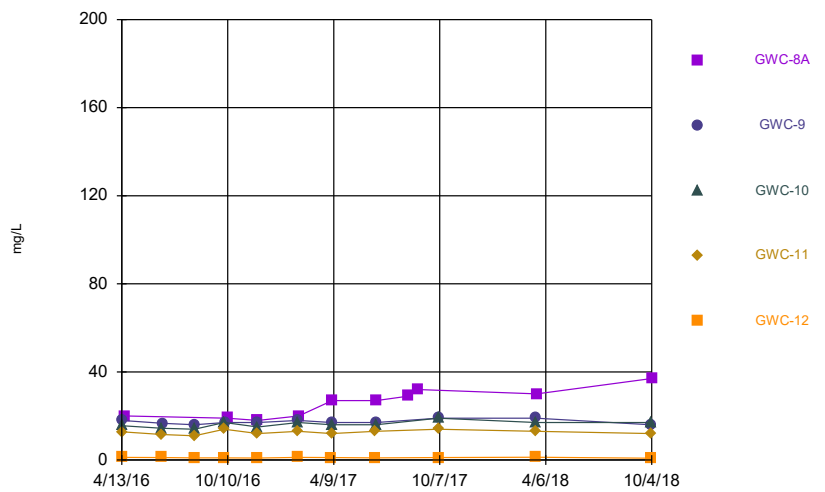
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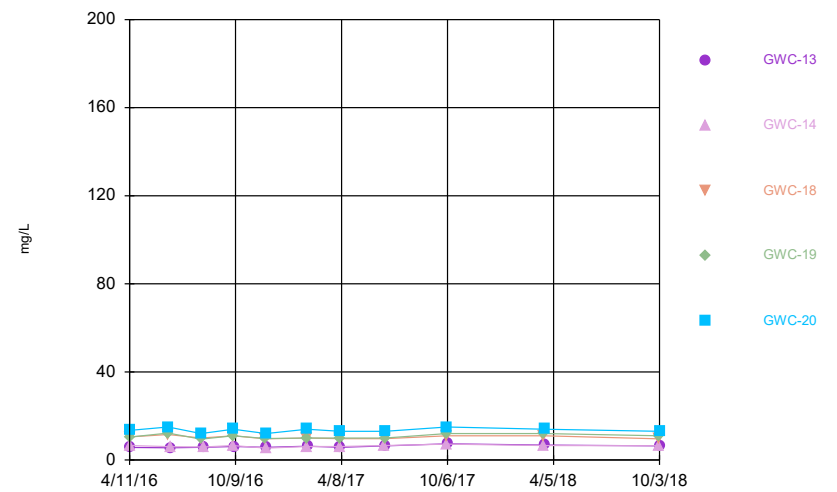
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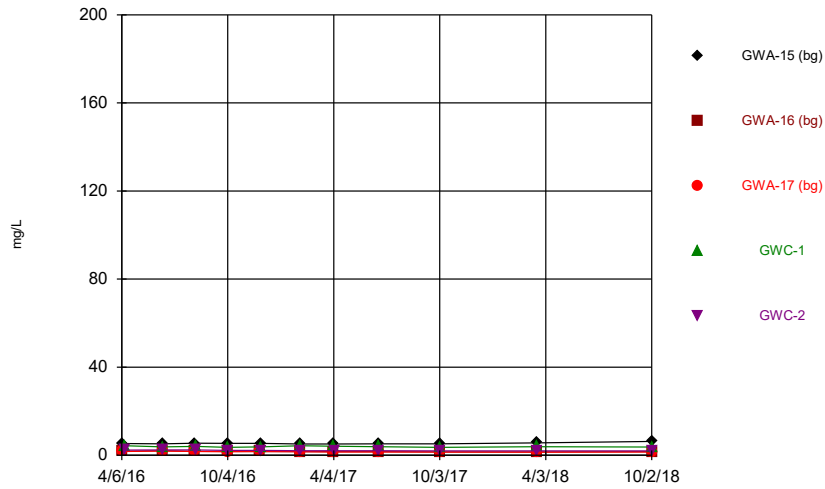
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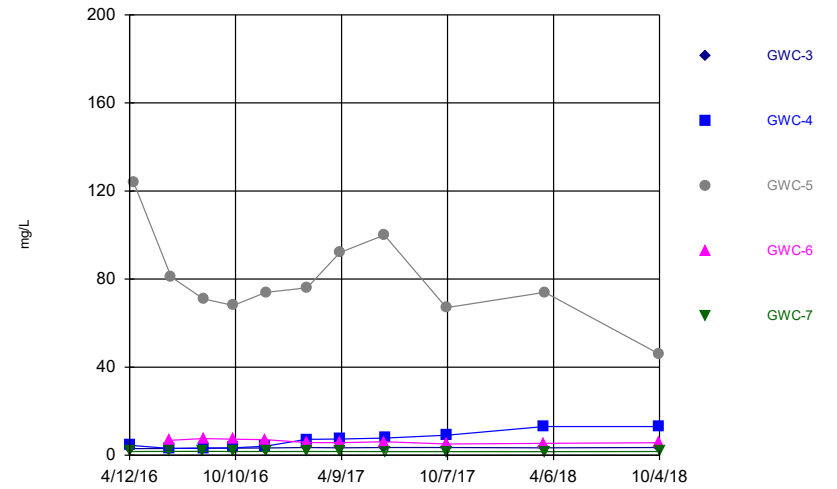


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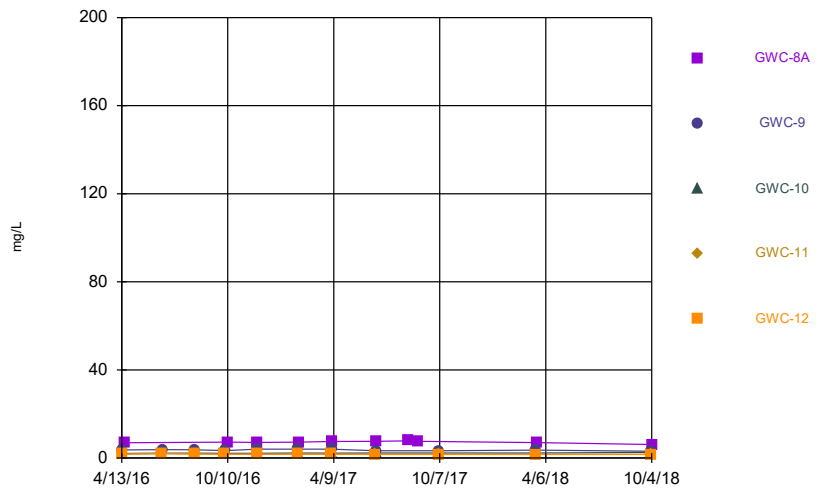
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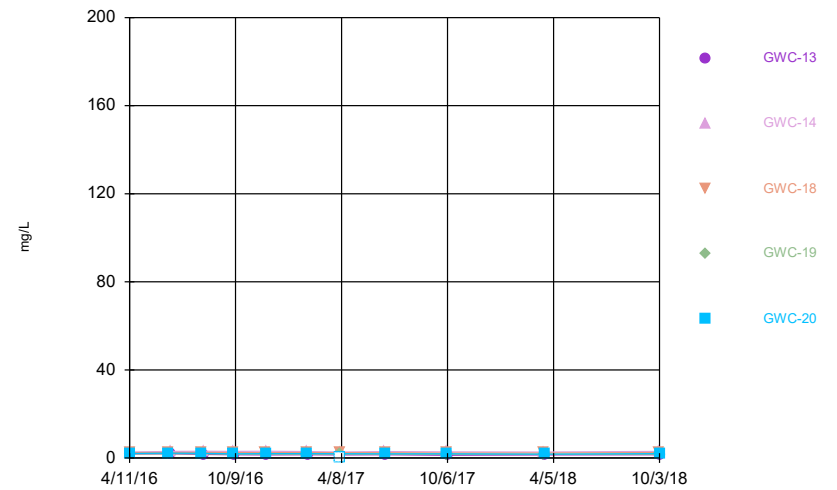
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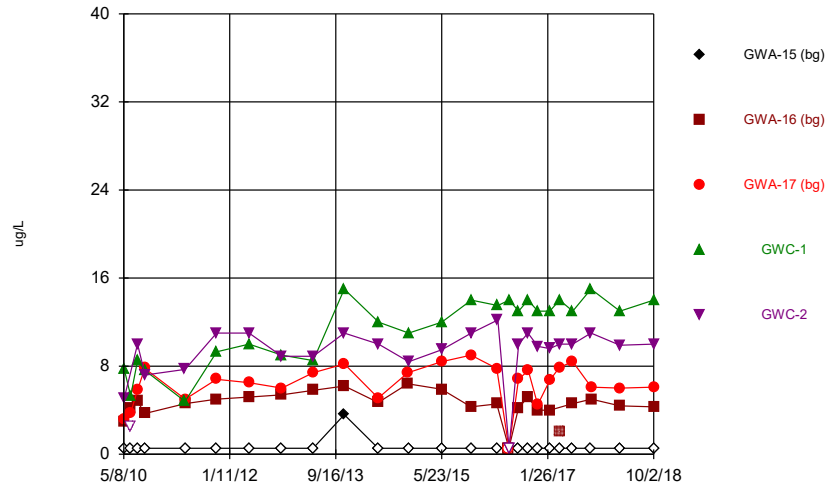
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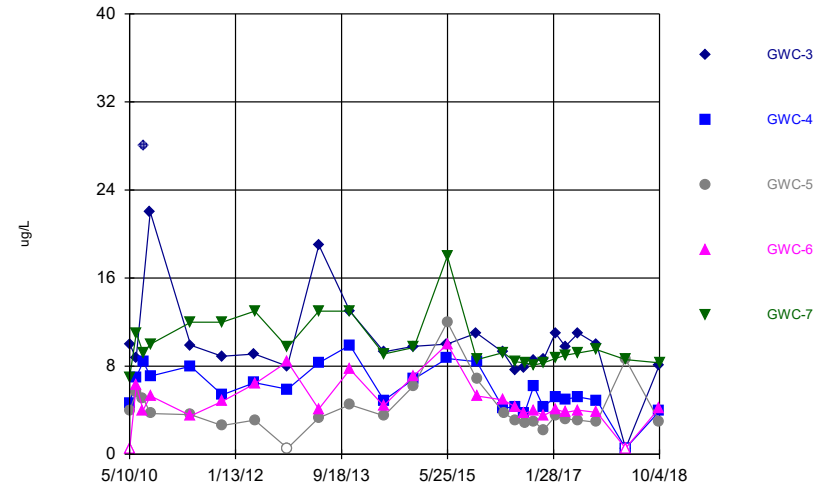
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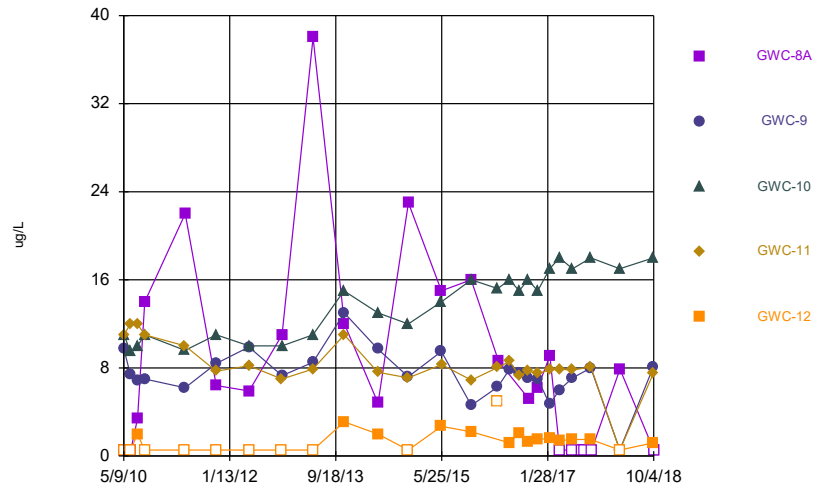
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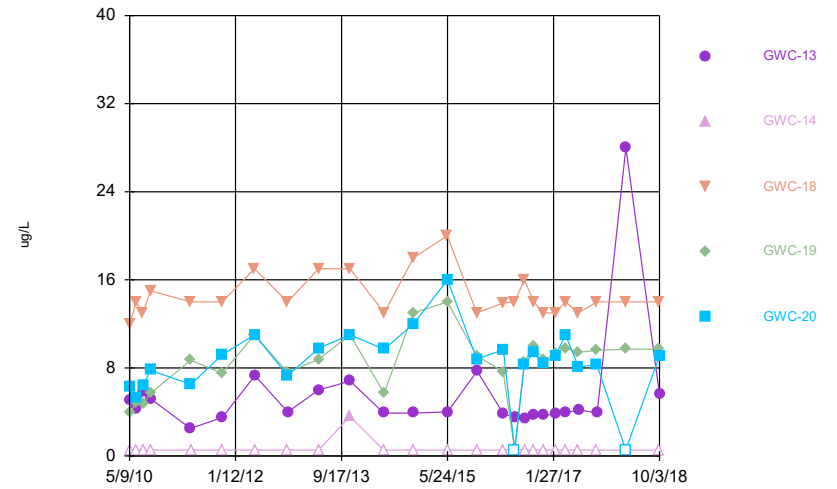
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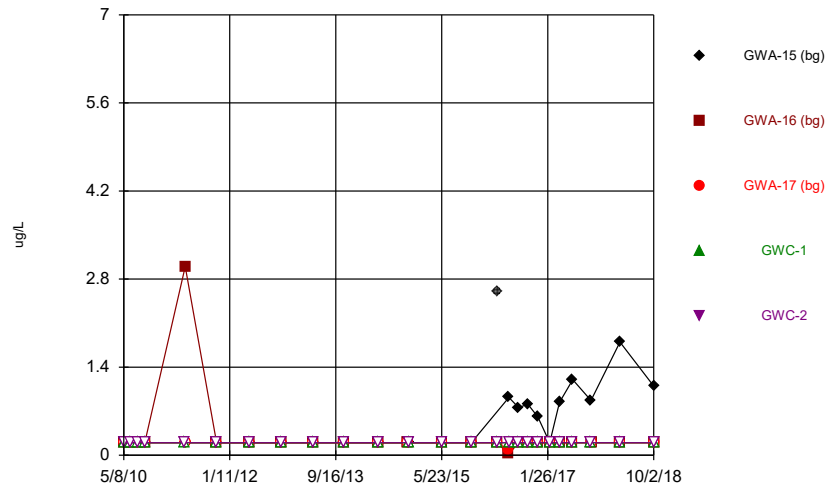
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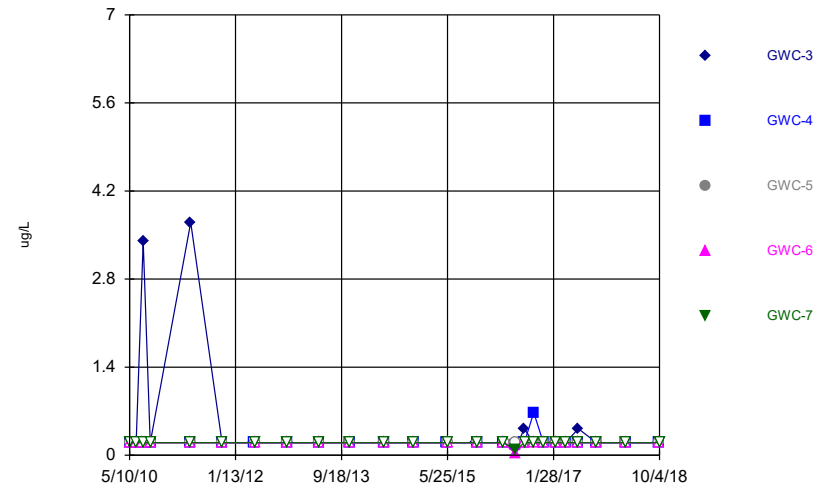
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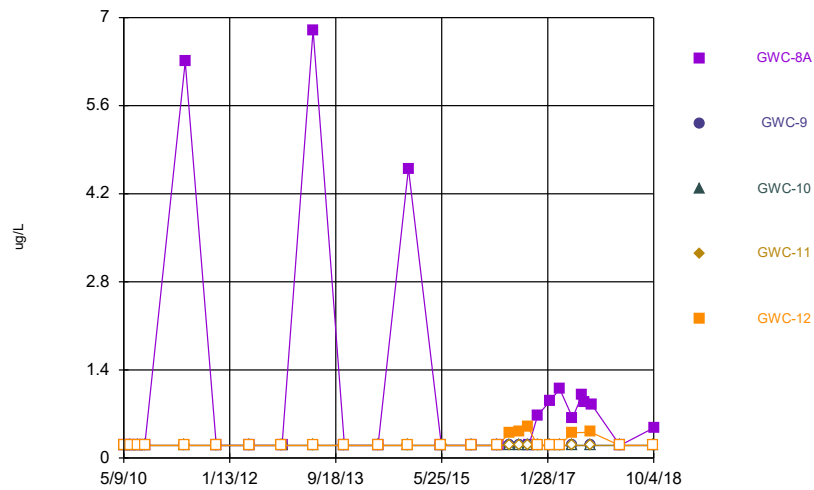
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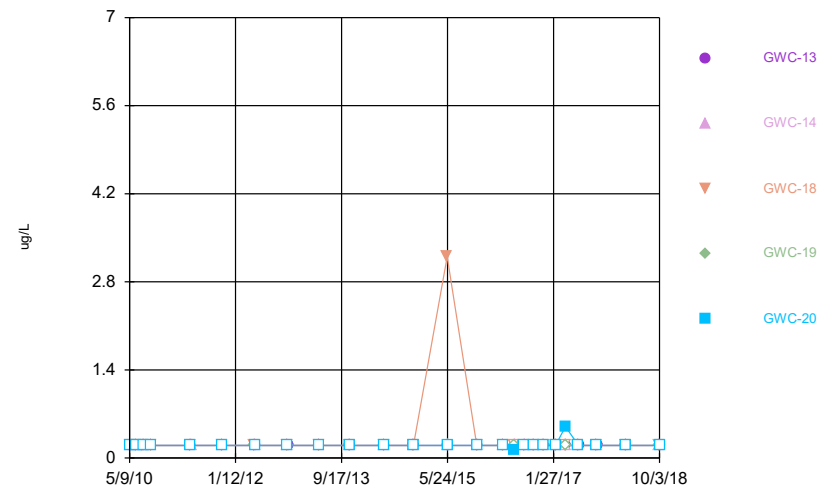
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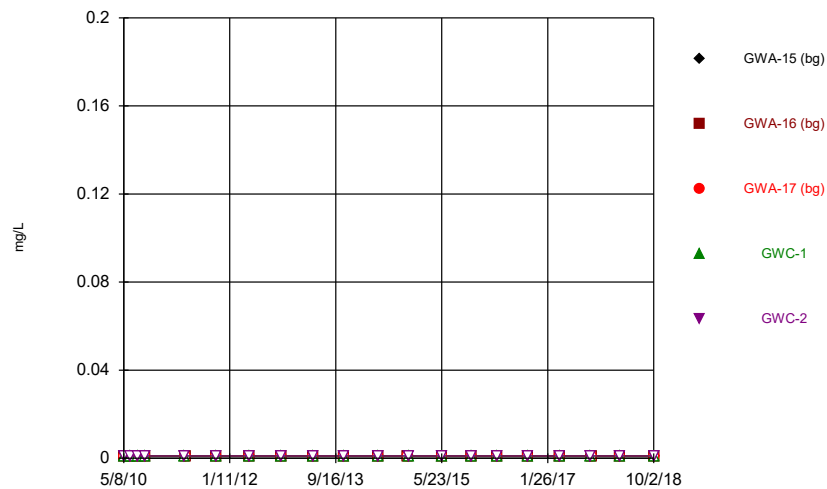
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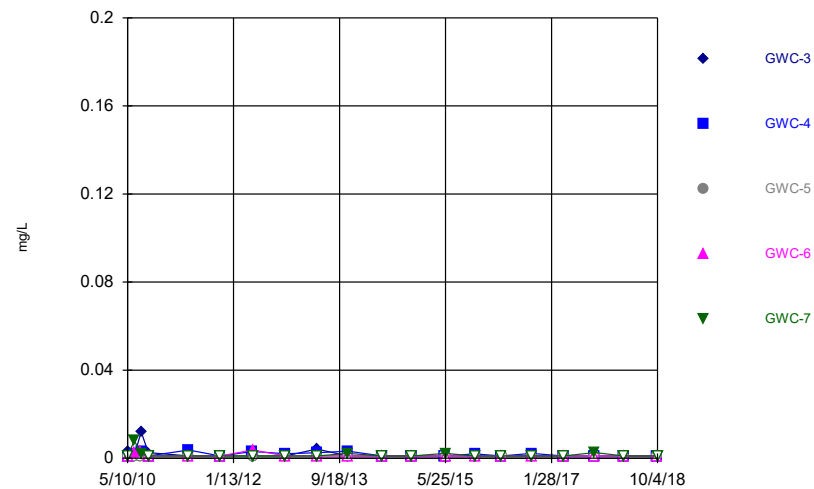
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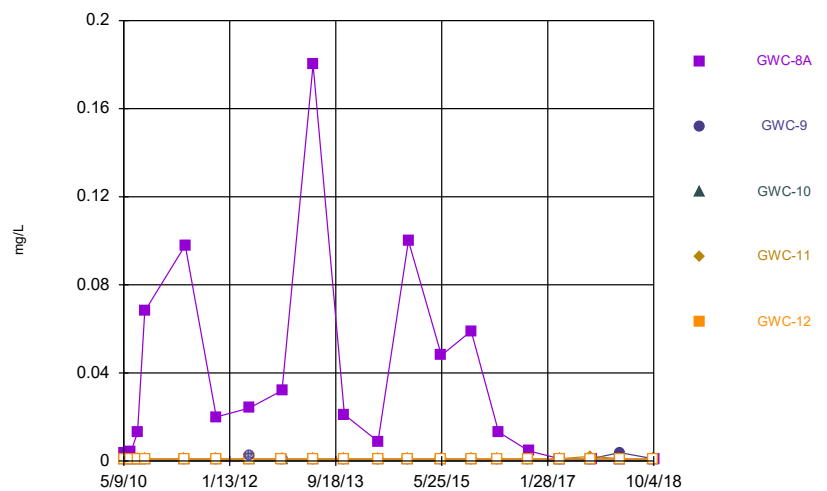
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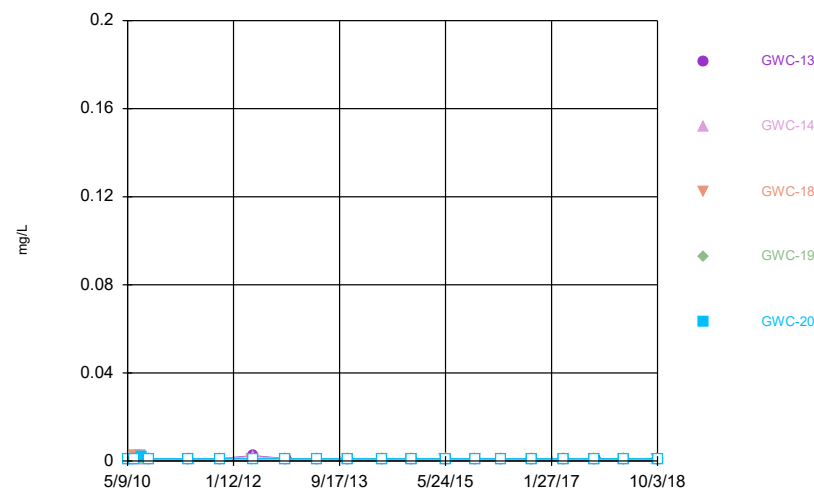
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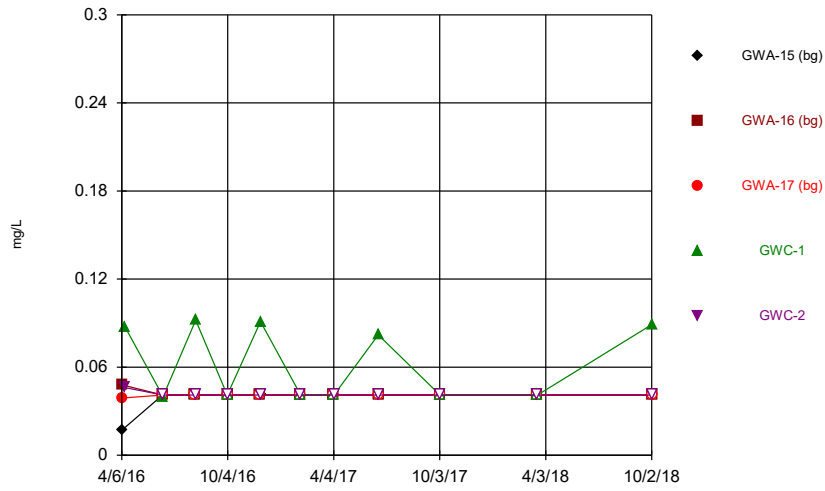
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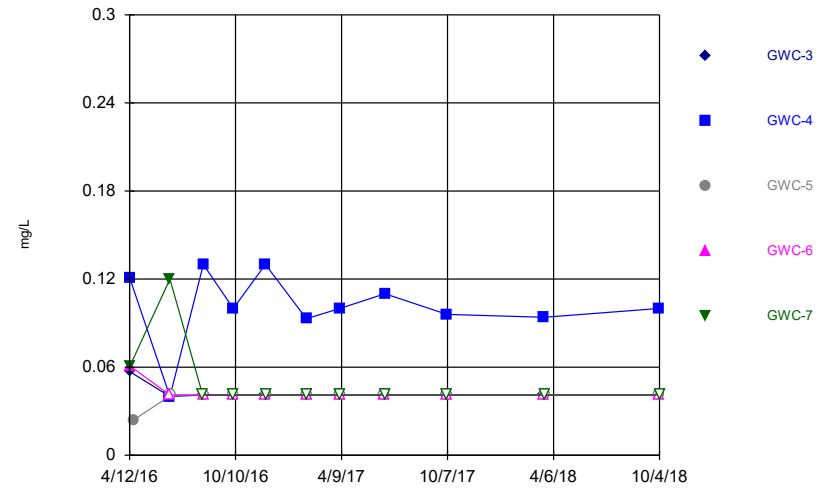
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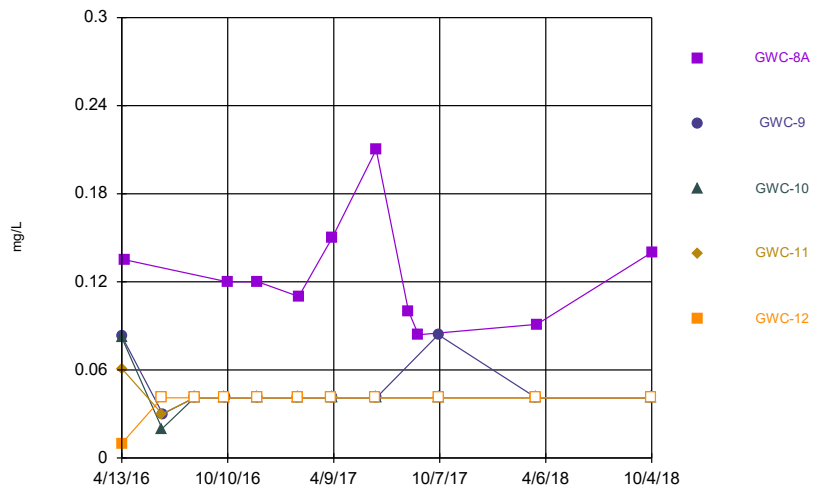
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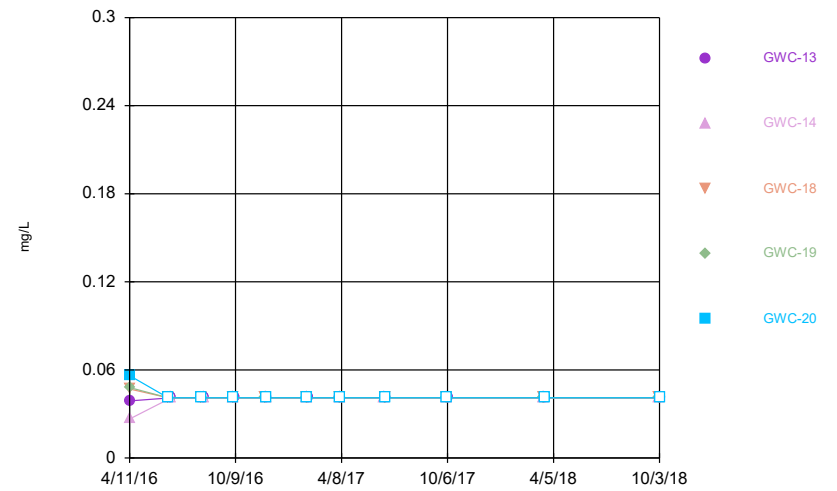
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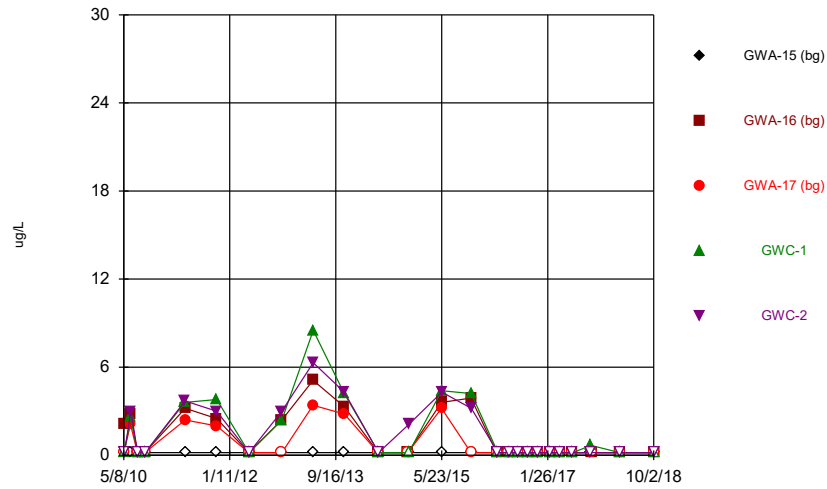
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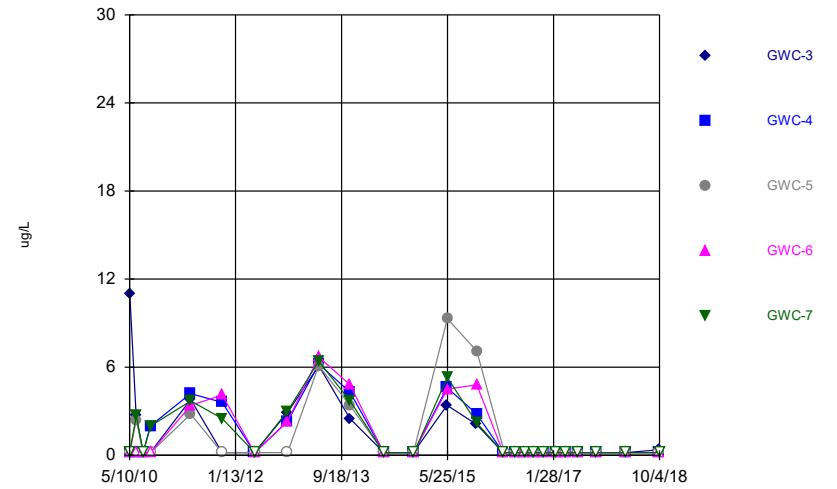
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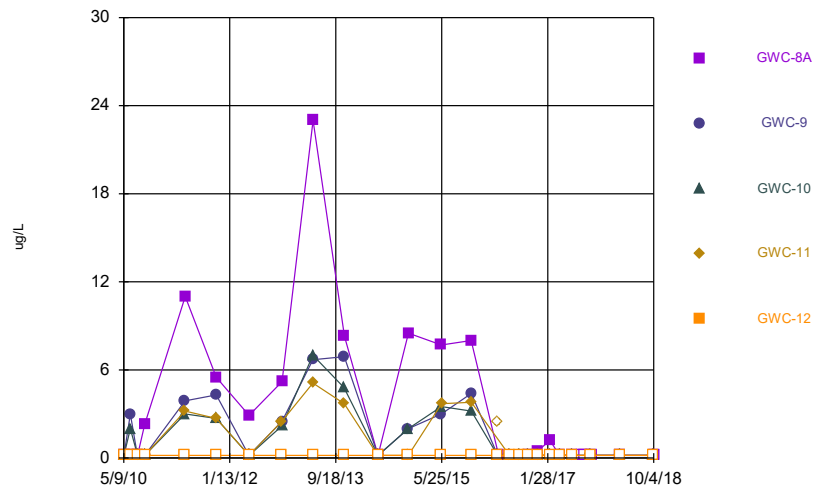
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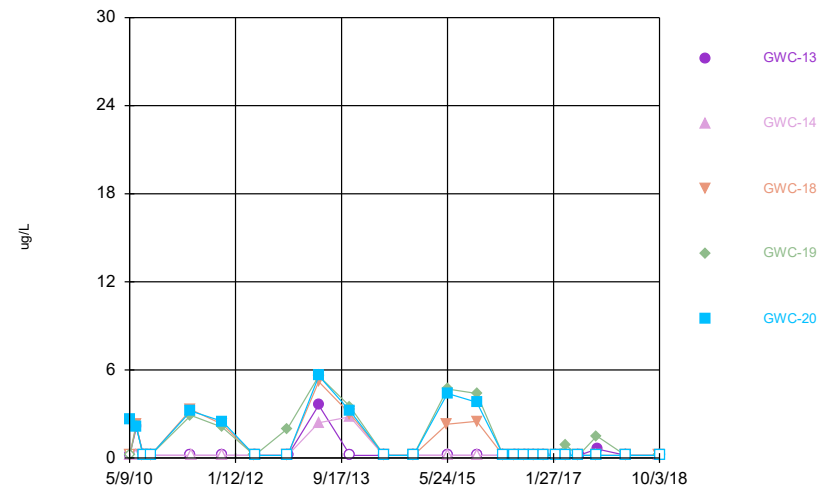
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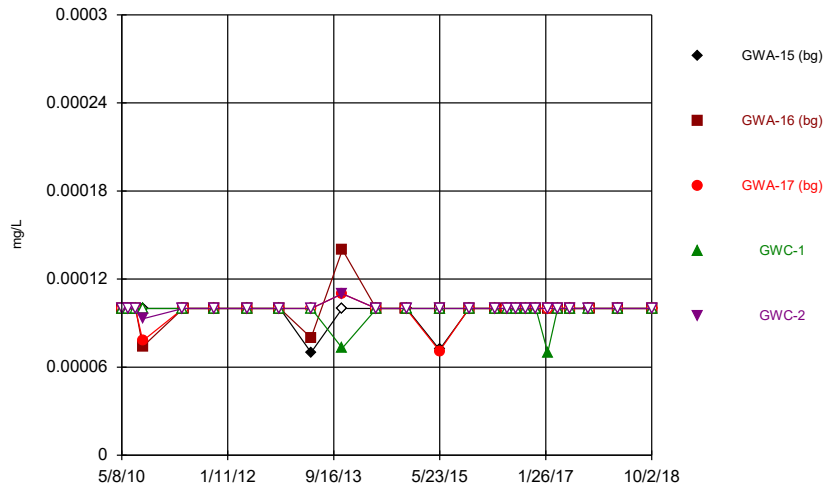
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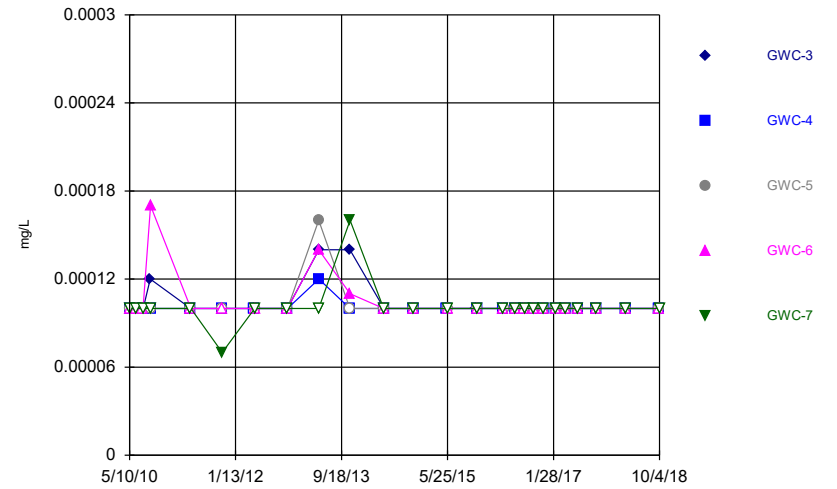
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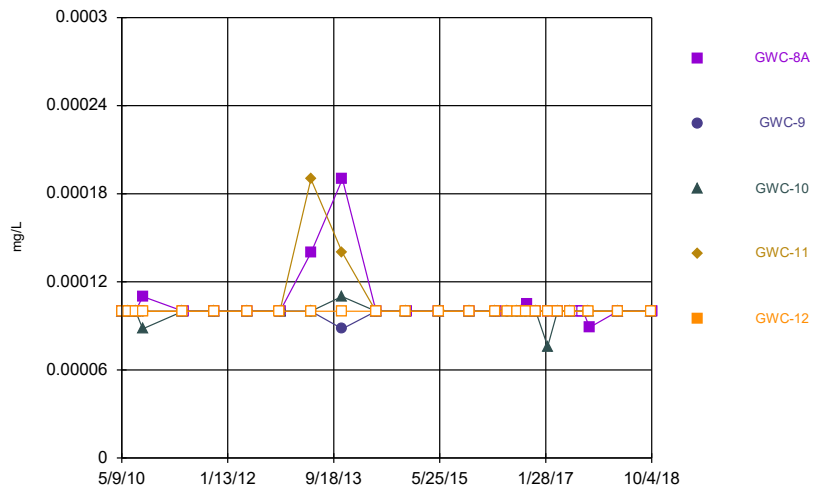
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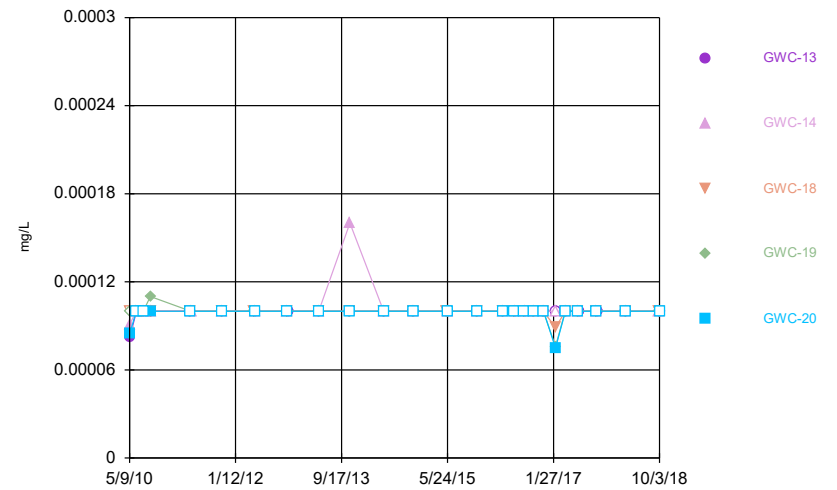
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Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



Constituent: Mercury Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

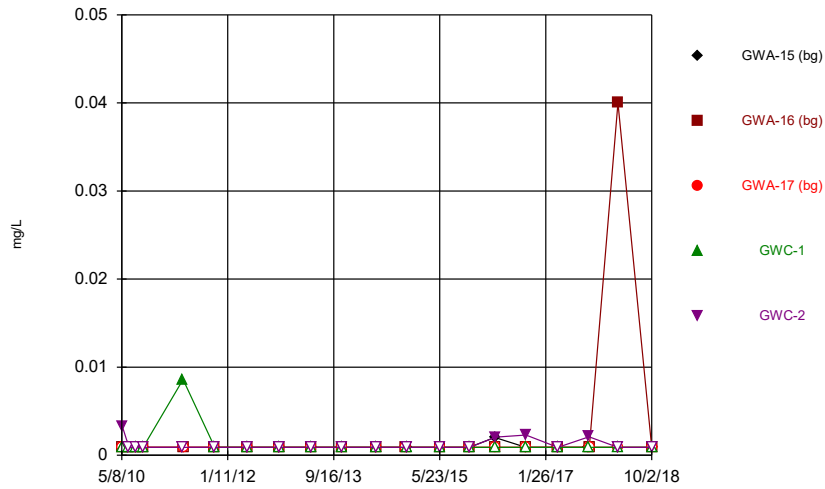
### Time Series



Constituent: Mercury Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

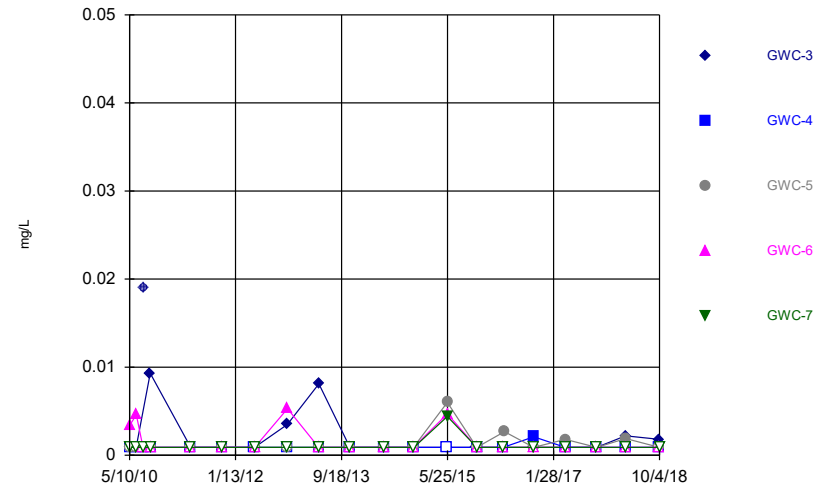


Time Series



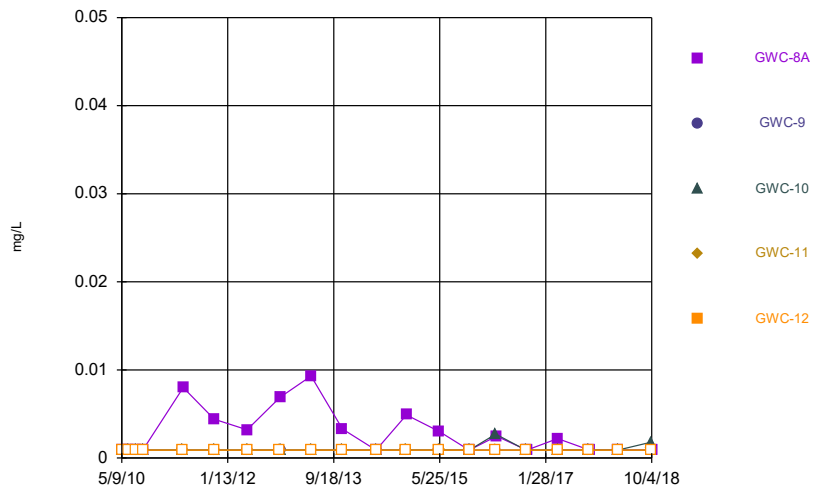
Constituent: Nickel Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



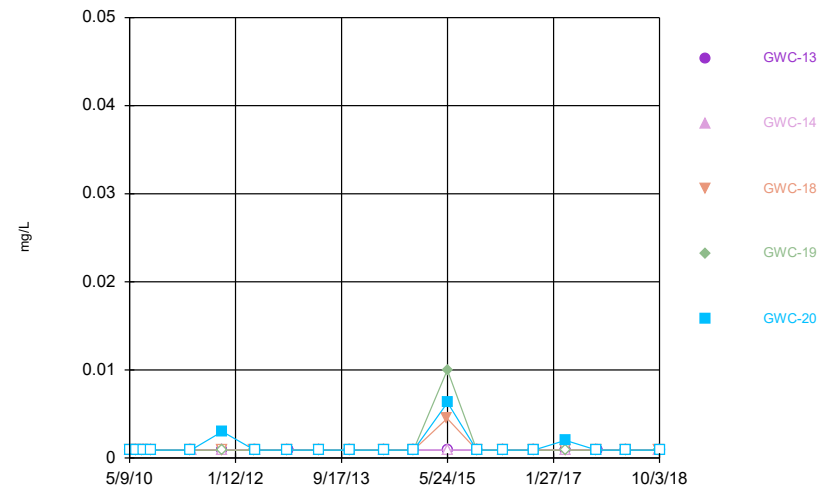
Constituent: Nickel Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



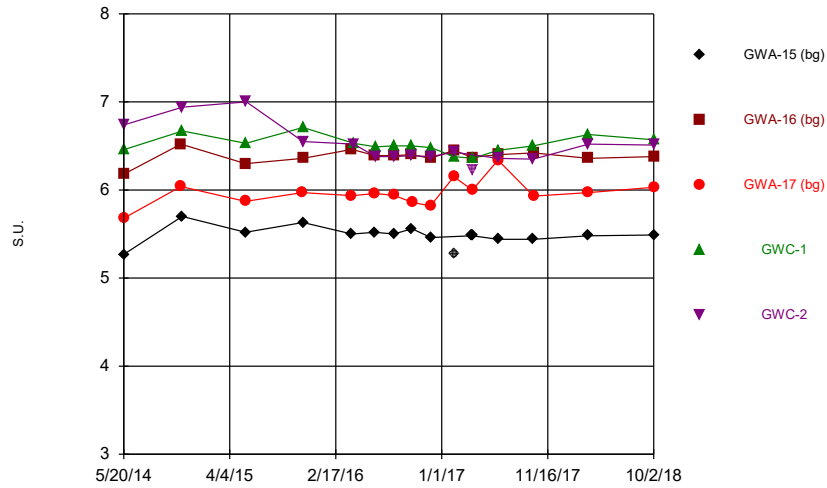
Constituent: Nickel Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



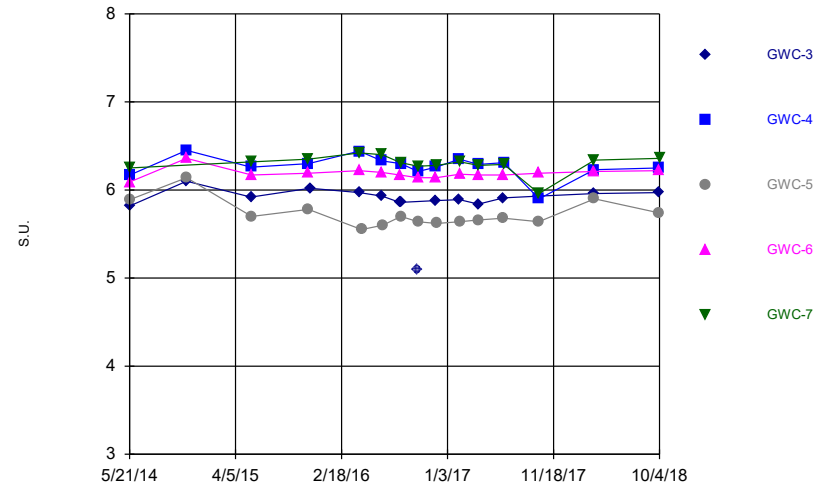
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Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



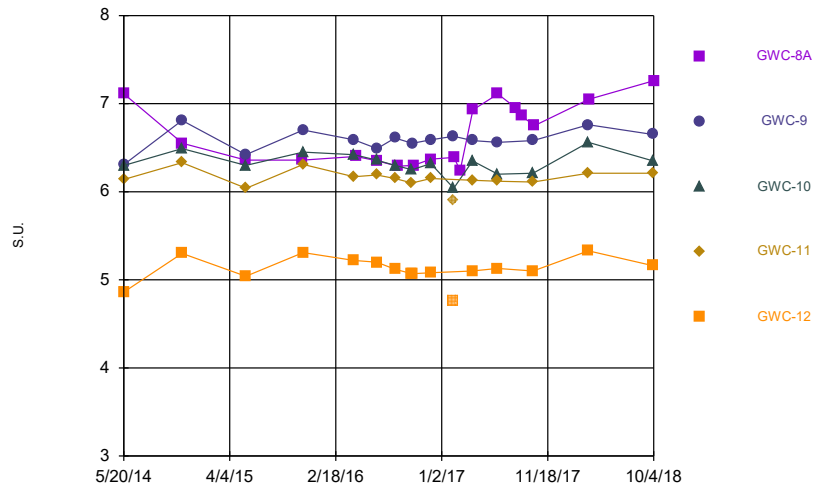
Constituent: pH Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



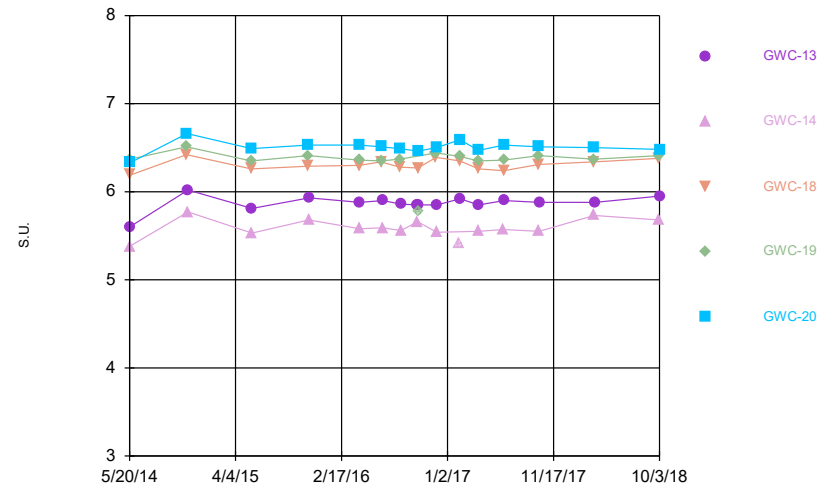
Constituent: pH Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



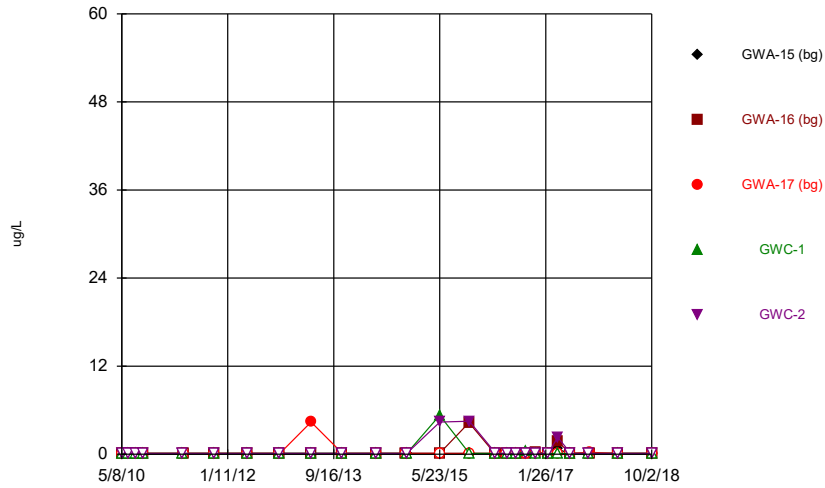
Constituent: pH Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



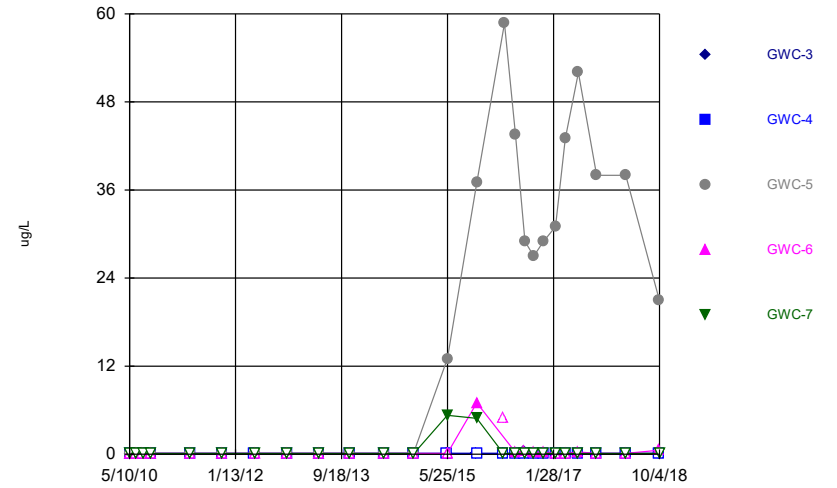
Constituent: pH Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



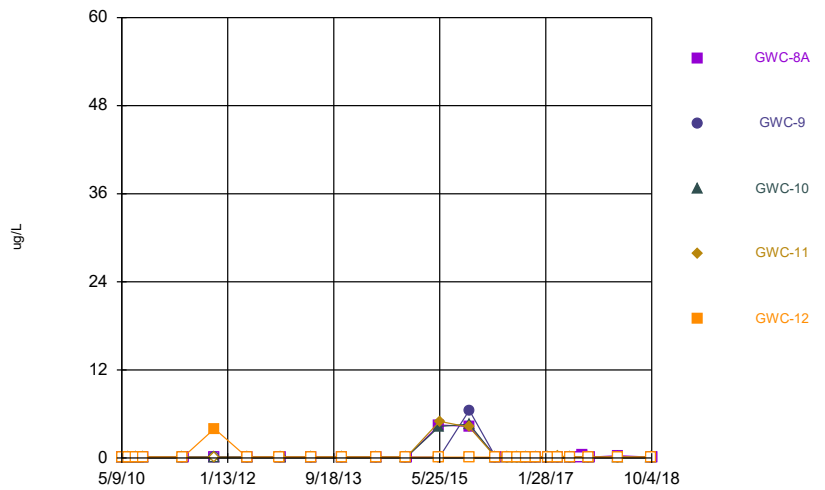
Constituent: Selenium, Total Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



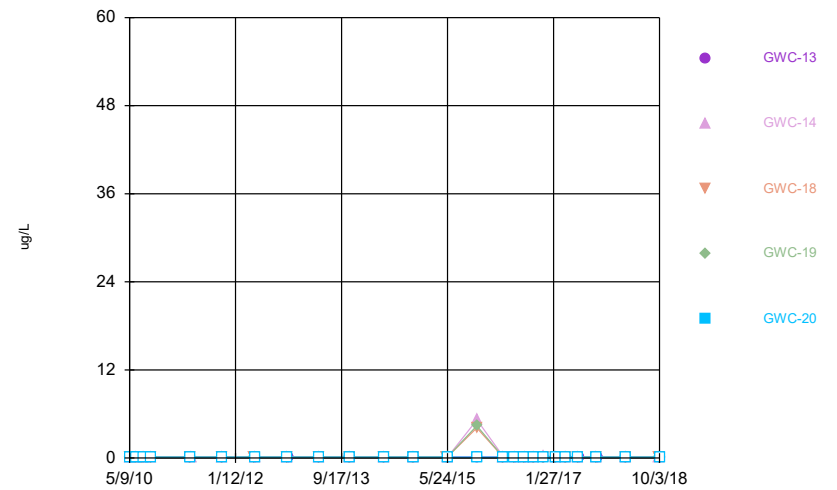
Constituent: Selenium, Total Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



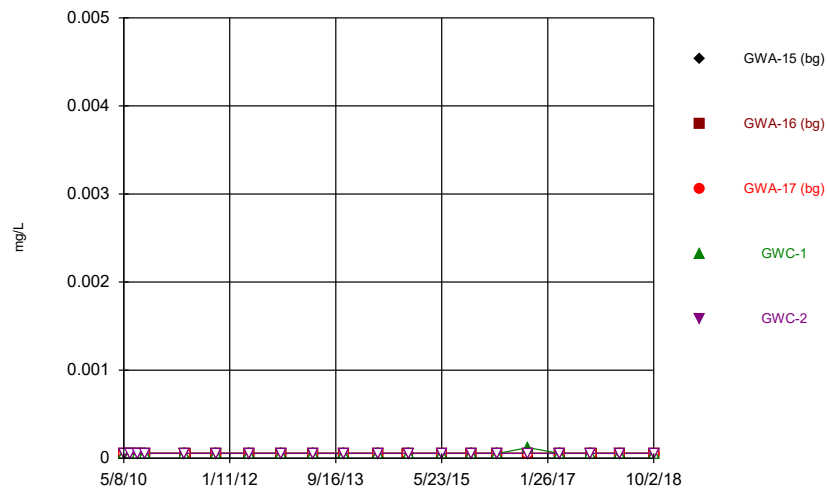
Constituent: Selenium, Total Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



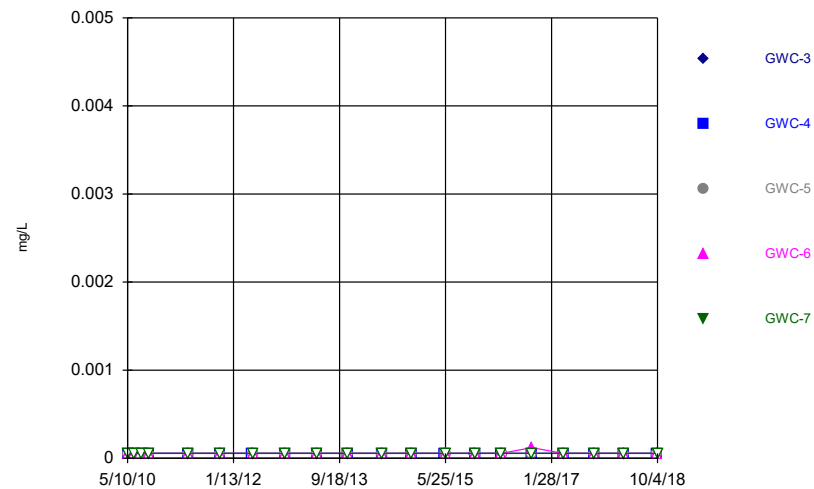
Constituent: Selenium, Total Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



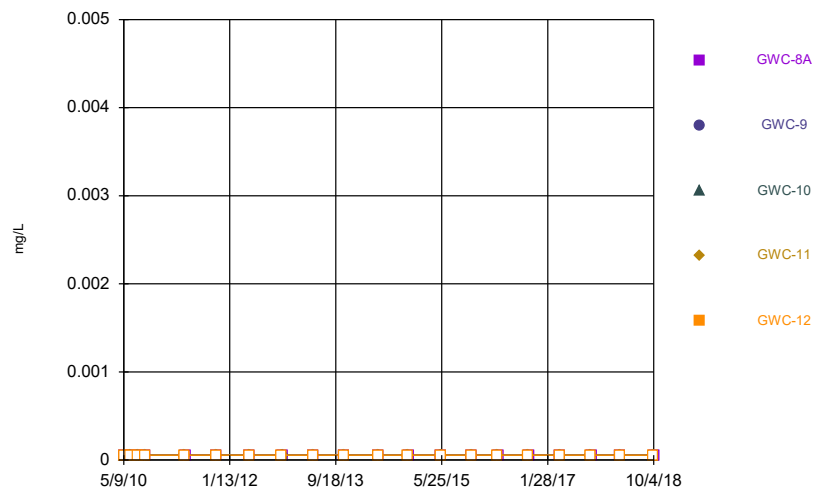
Constituent: Silver Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



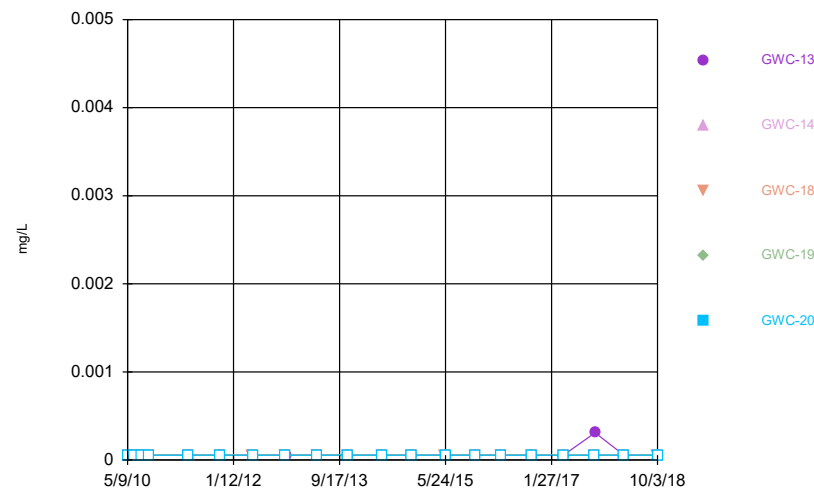
Constituent: Silver Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



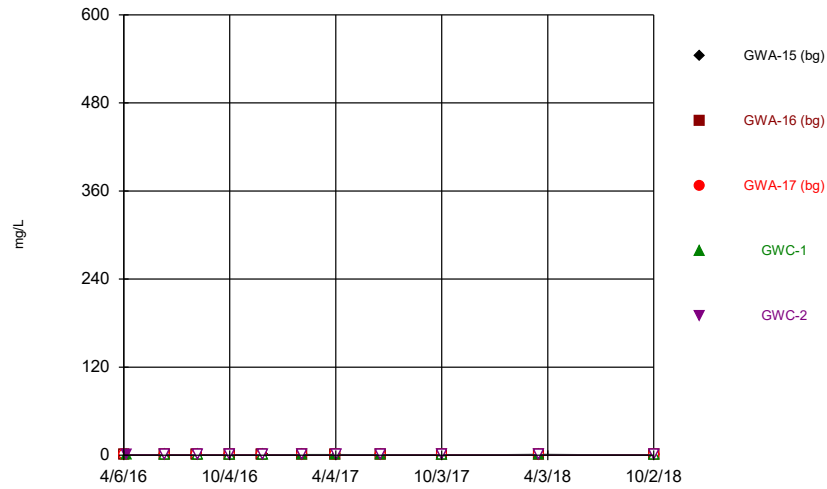
Constituent: Silver Analysis Run 1/23/2019 4:09 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



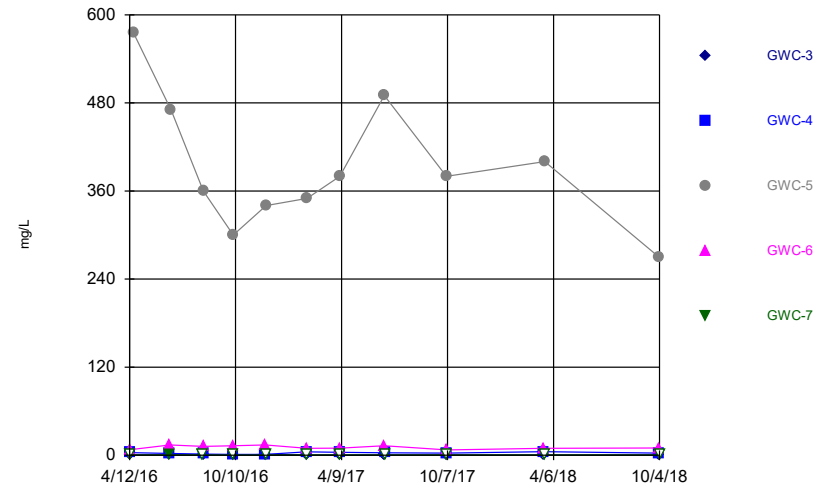
Constituent: Silver Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



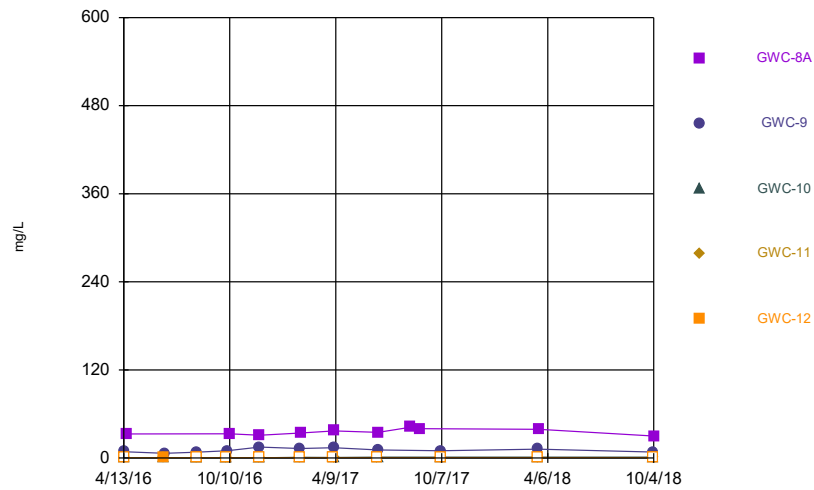
Constituent: Sulfate Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



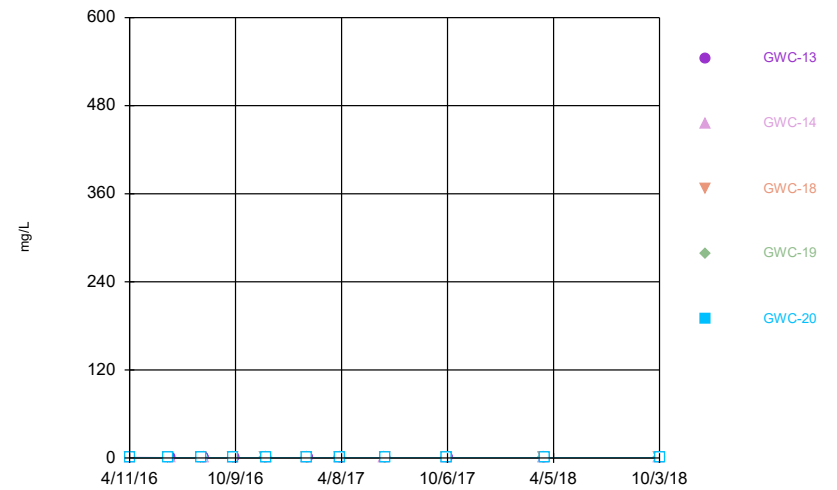
Constituent: Sulfate Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



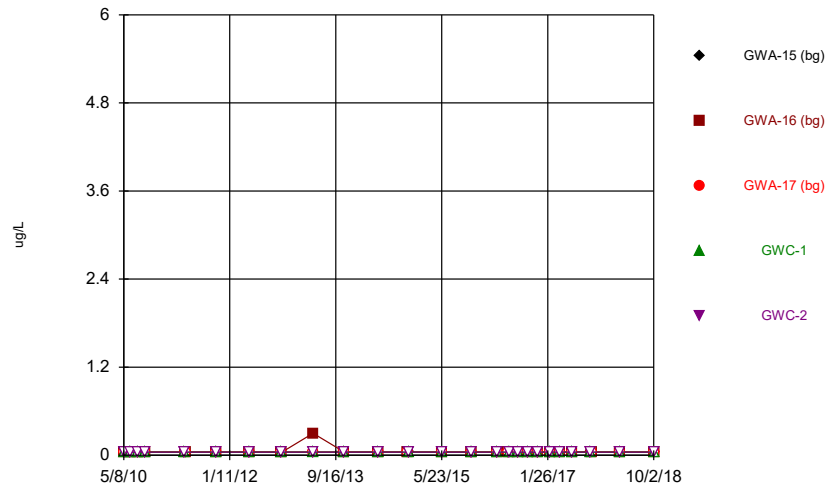
Constituent: Sulfate Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



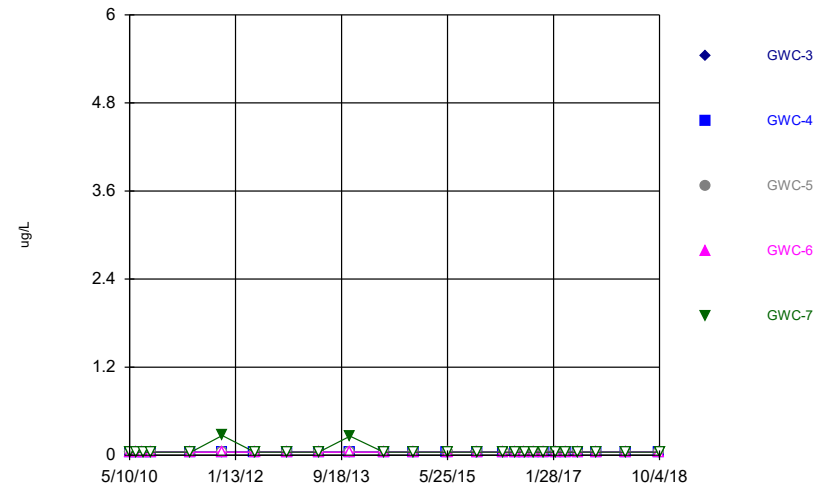
Constituent: Sulfate Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



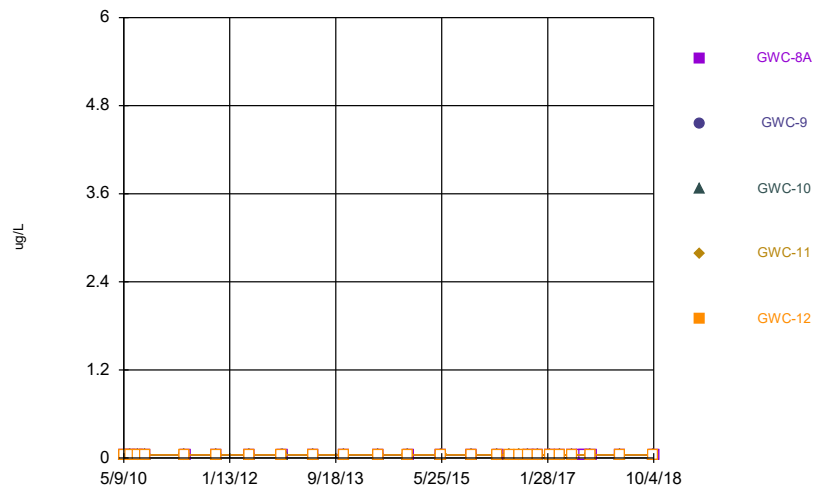
Constituent: Thallium, Total Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



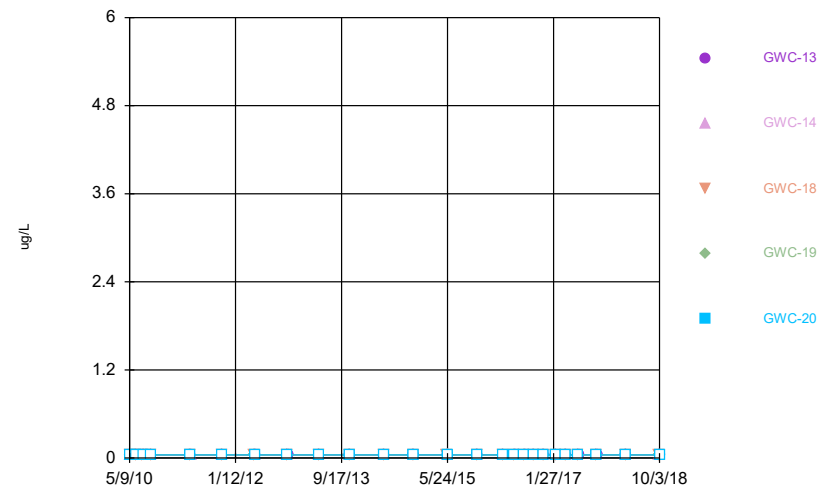
Constituent: Thallium, Total Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



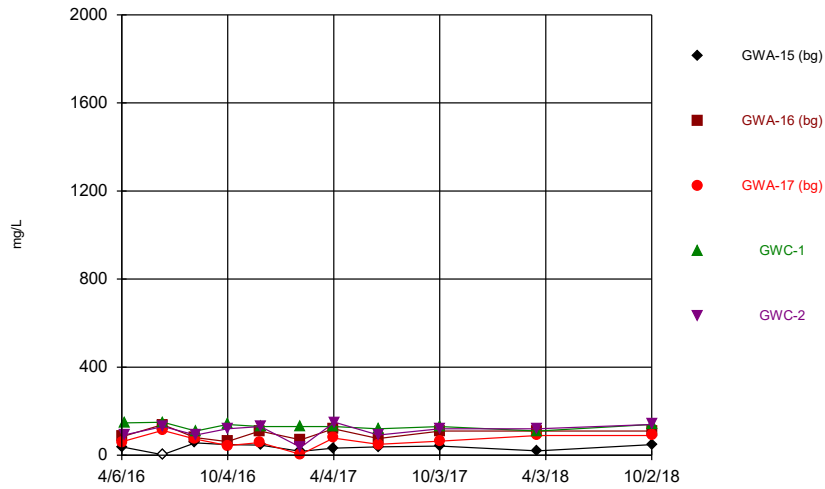
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Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



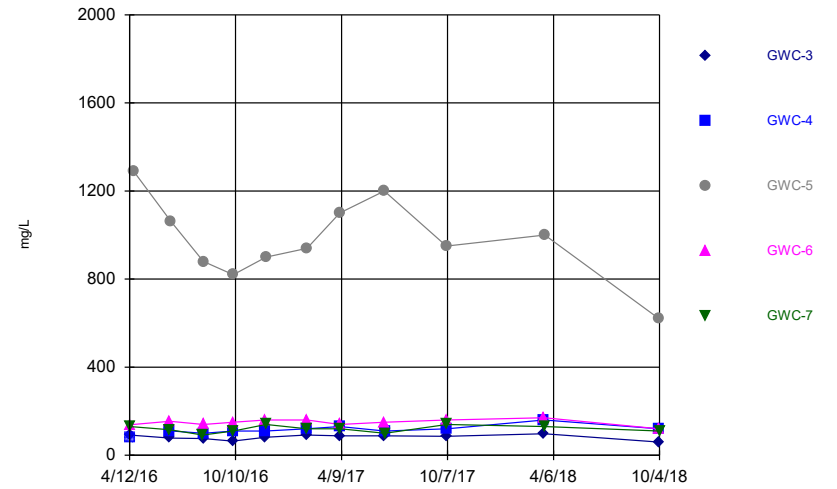
Constituent: Thallium, Total Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



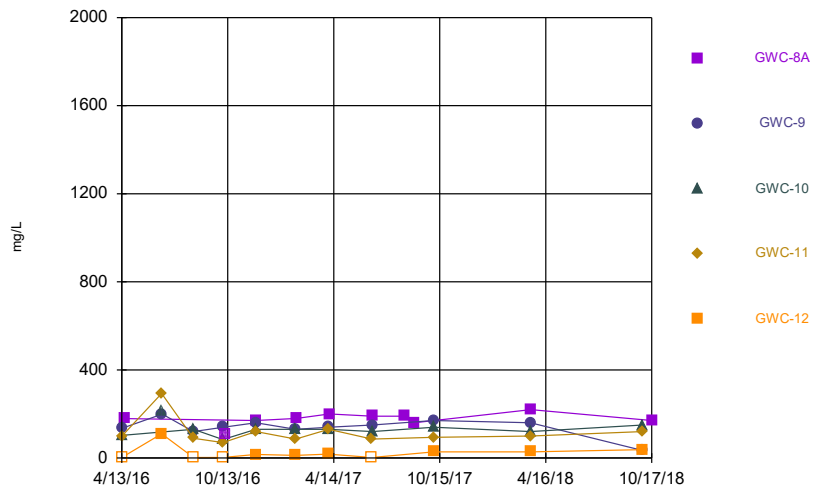
Constituent: Total Dissolved Solids Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



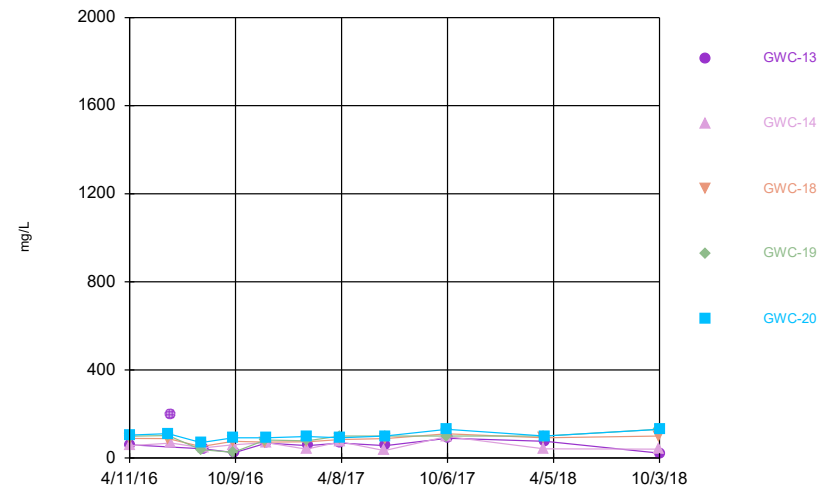
Constituent: Total Dissolved Solids Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

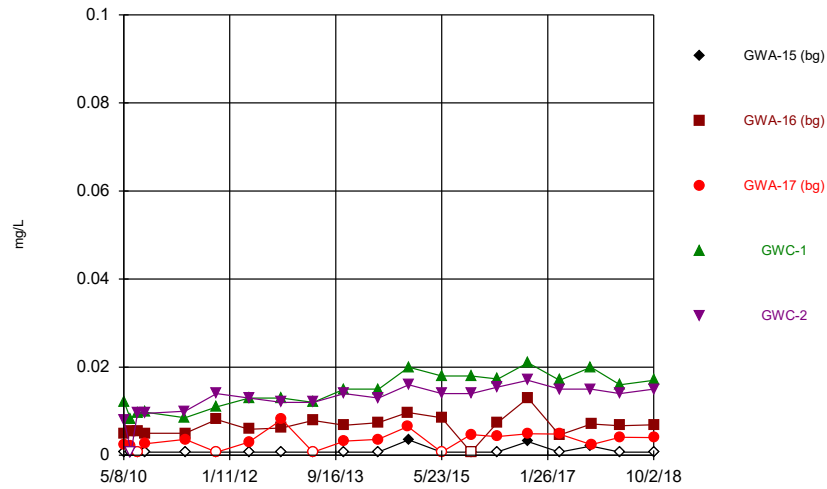
Time Series



Constituent: Total Dissolved Solids Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

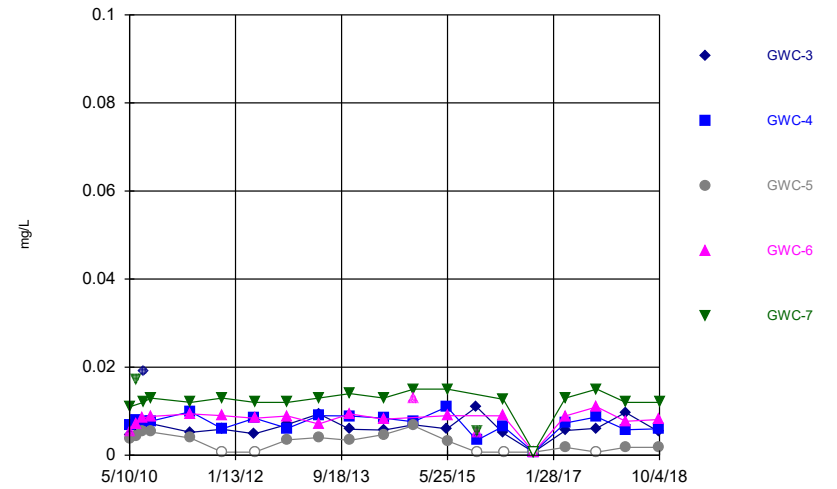


### Time Series



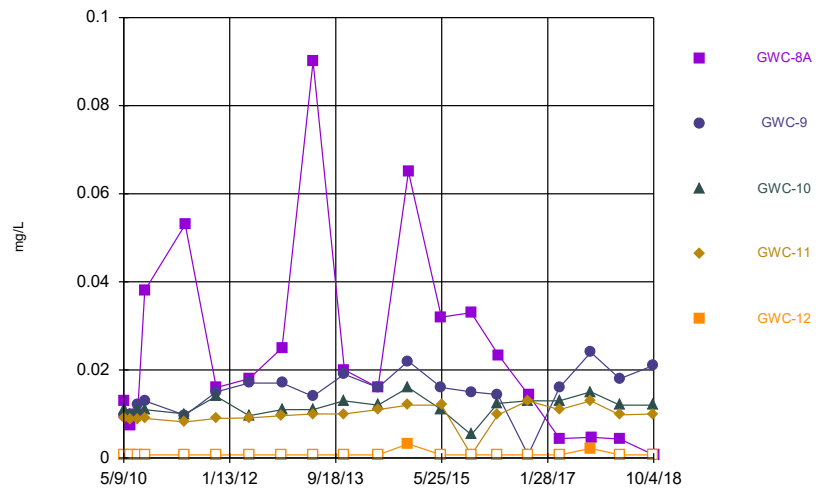
Constituent: Vanadium Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



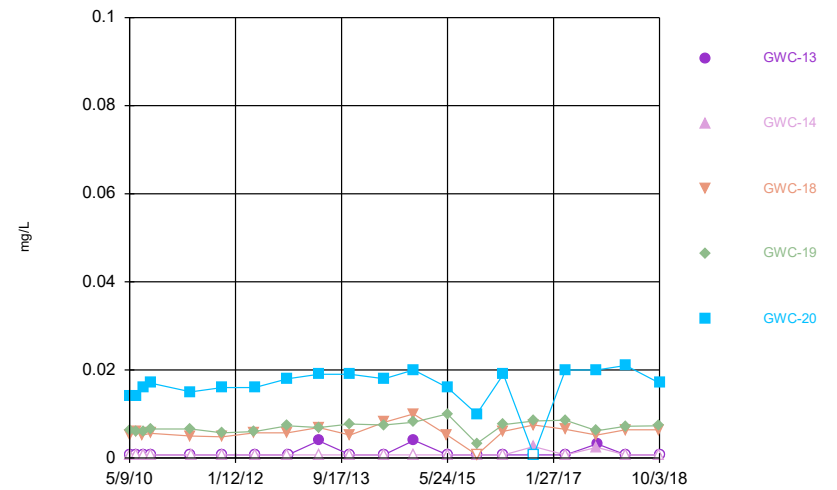
Constituent: Vanadium Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



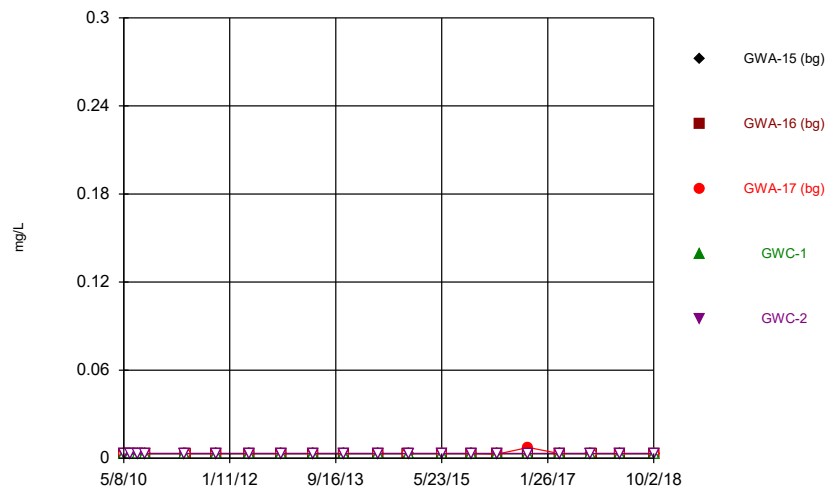
Constituent: Vanadium Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Time Series



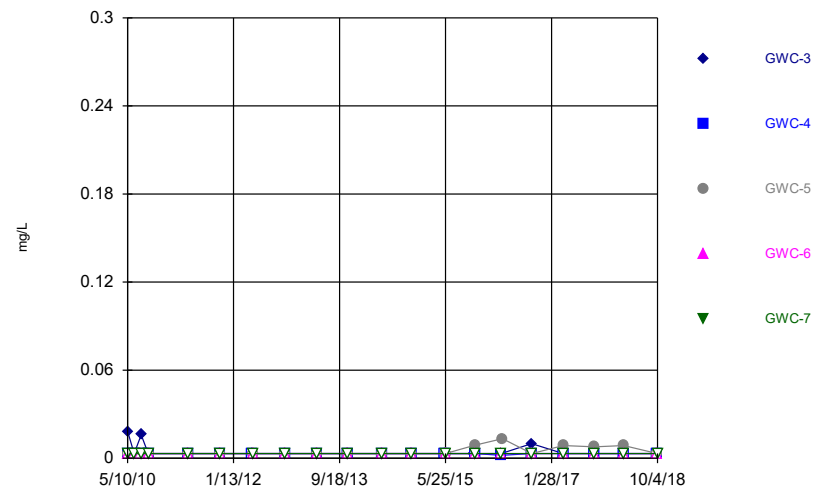
Constituent: Vanadium Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



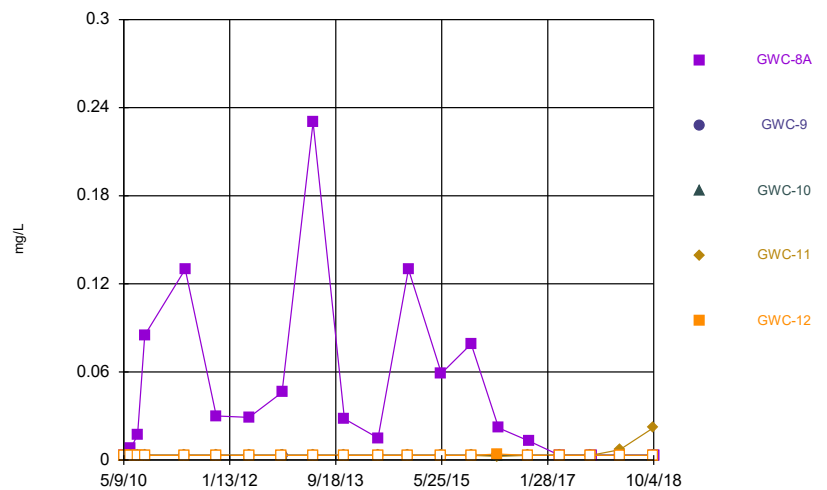
Constituent: Zinc Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



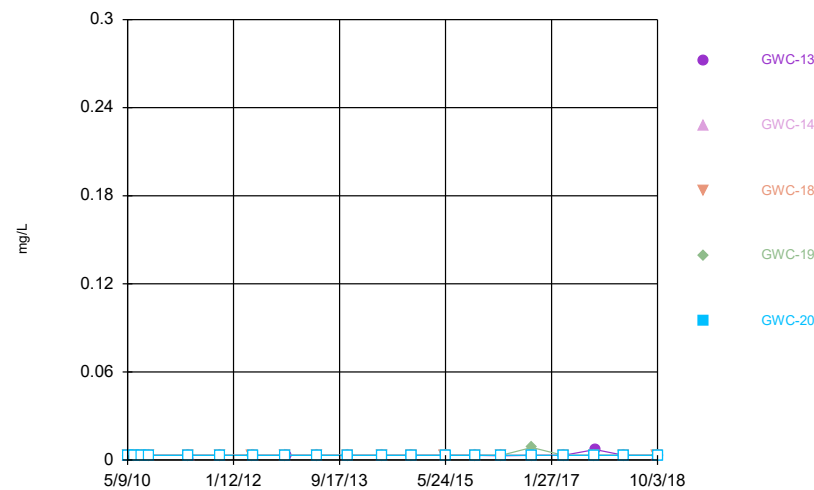
Constituent: Zinc Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



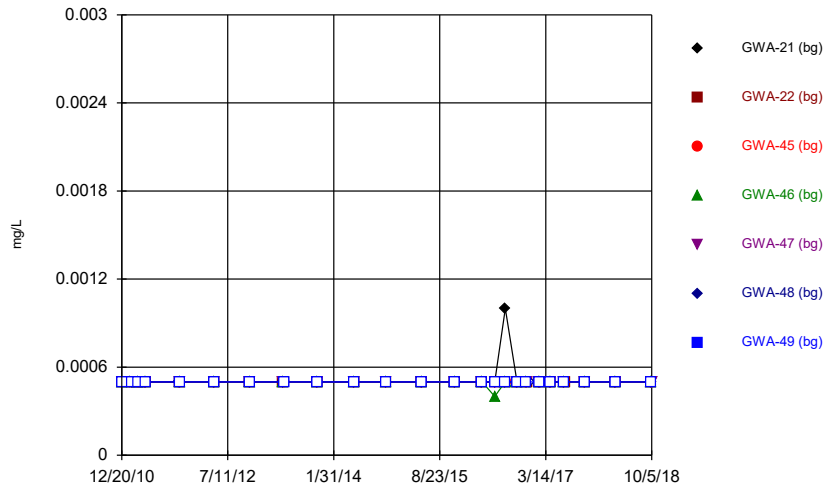
Constituent: Zinc Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



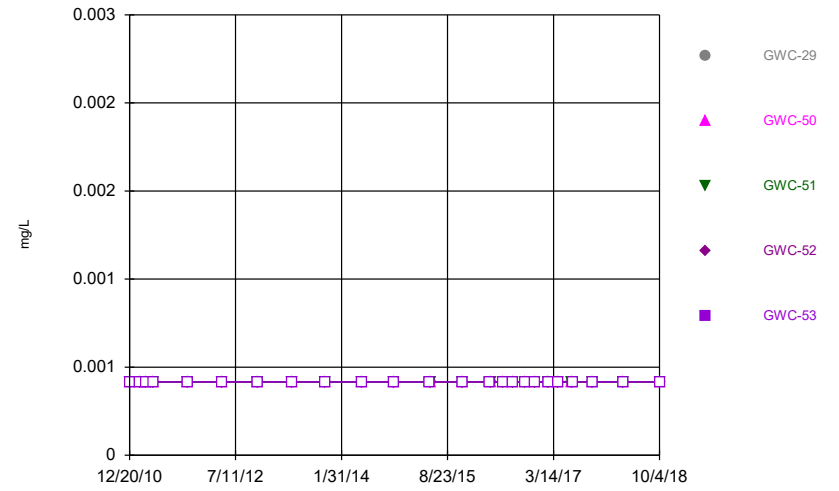
Constituent: Zinc Analysis Run 1/23/2019 4:10 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Time Series



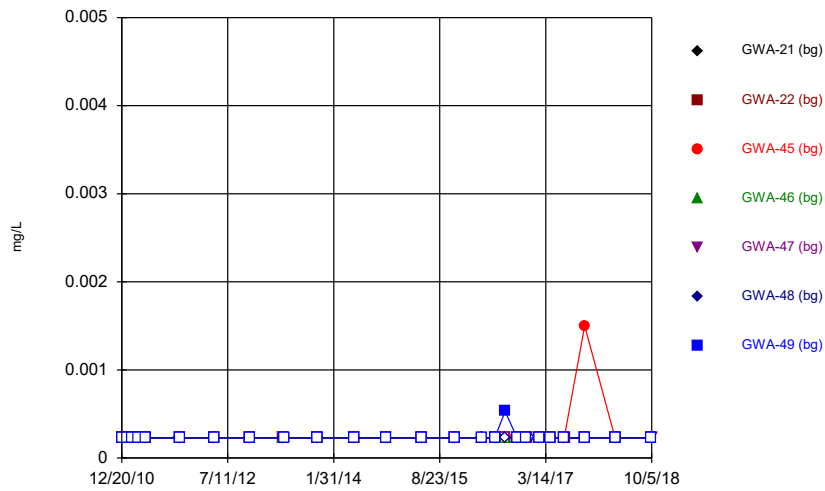
Constituent: Antimony, Total Analysis Run 1/23/2019 5:09 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



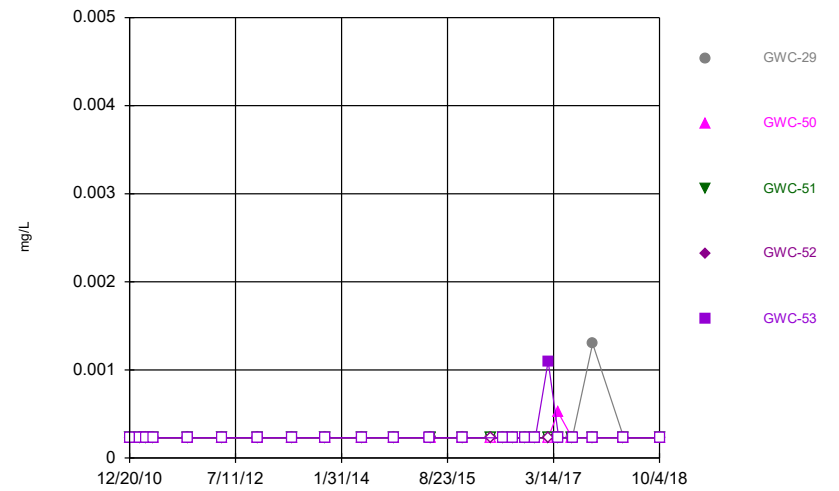
Constituent: Antimony, Total Analysis Run 1/23/2019 5:09 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



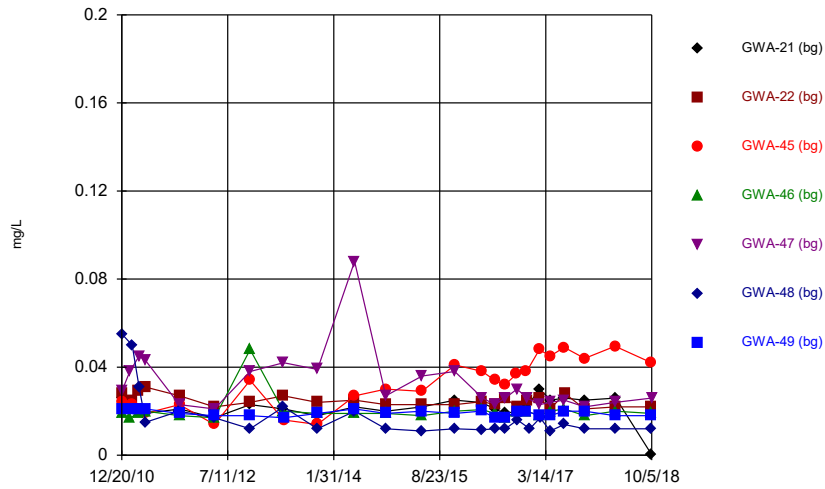
Constituent: Arsenic, Total Analysis Run 1/23/2019 5:09 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



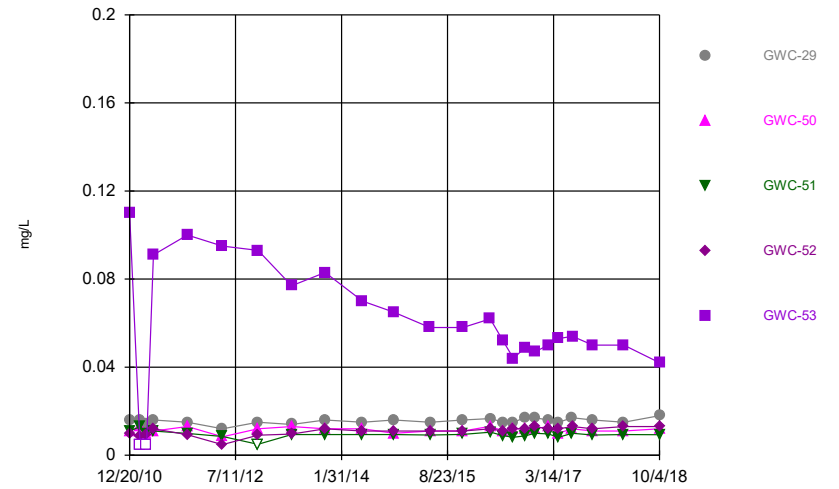
Constituent: Arsenic, Total Analysis Run 1/23/2019 5:09 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



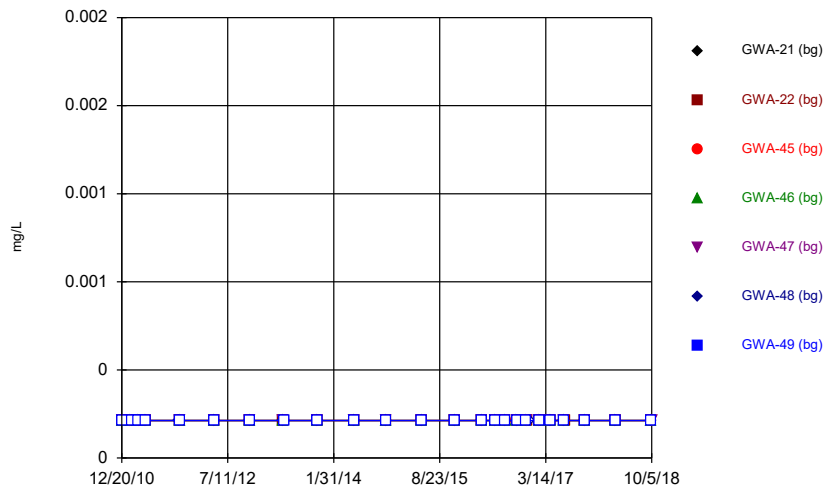
Constituent: Barium, Total Analysis Run 1/23/2019 5:09 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



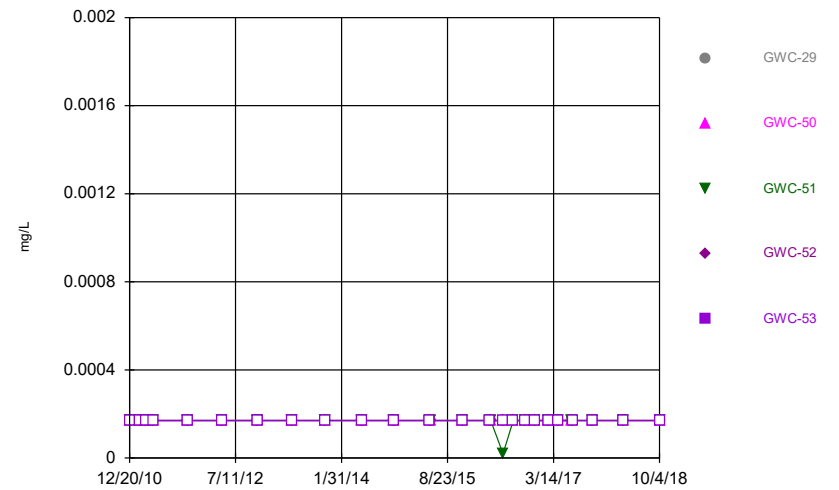
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 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



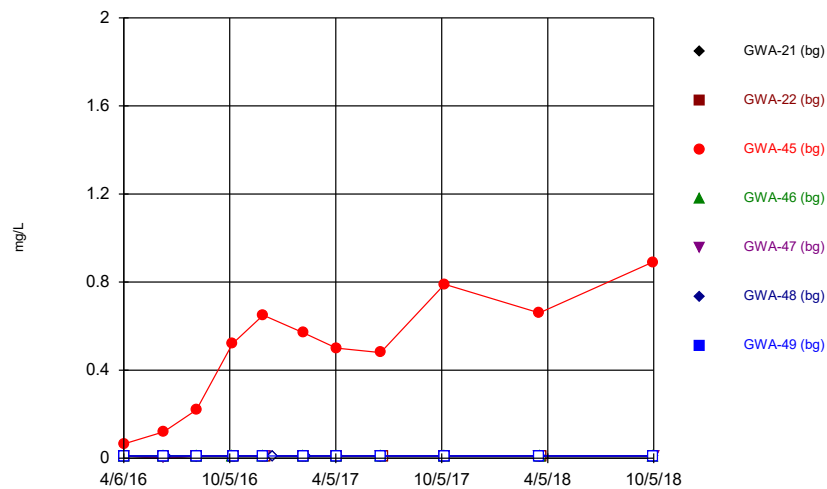
Constituent: Beryllium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



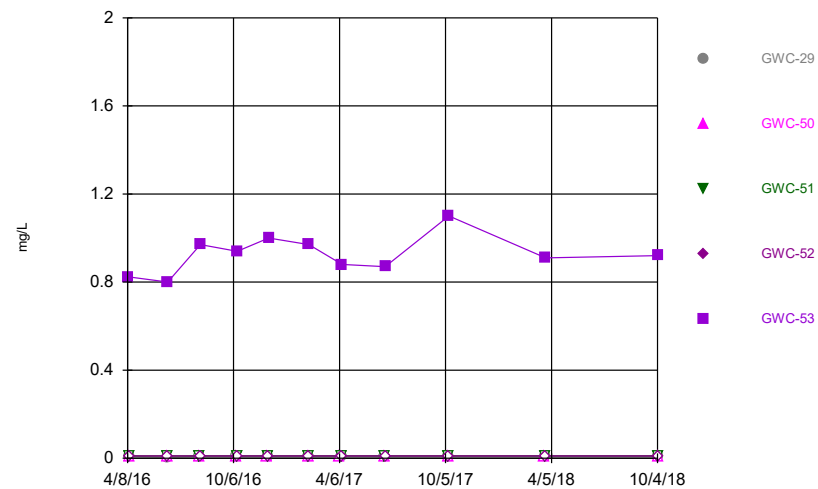
Constituent: Beryllium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



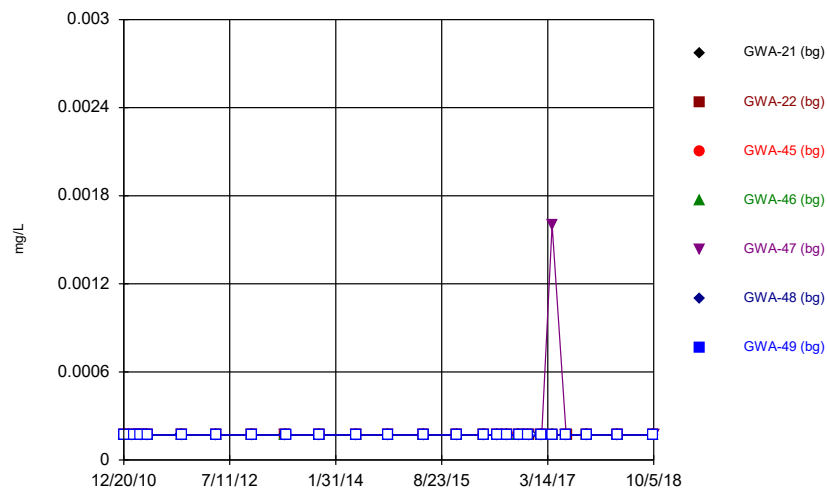
Constituent: Boron Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



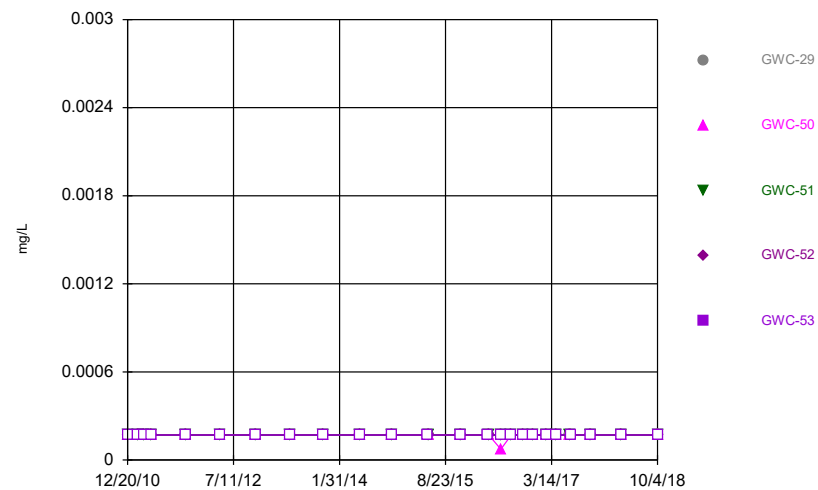
Constituent: Boron Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



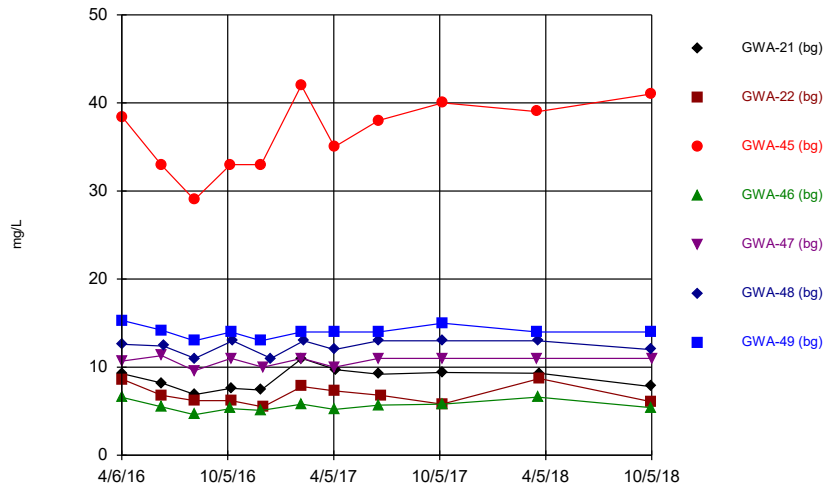
Constituent: Cadmium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



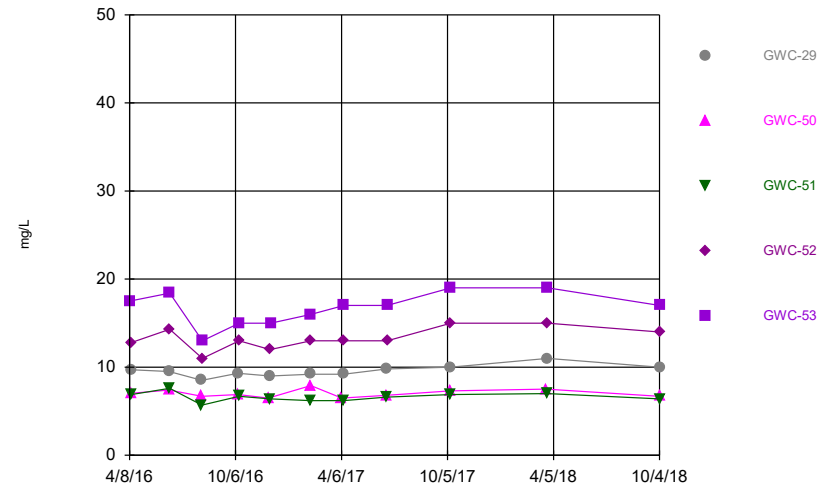
Constituent: Cadmium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



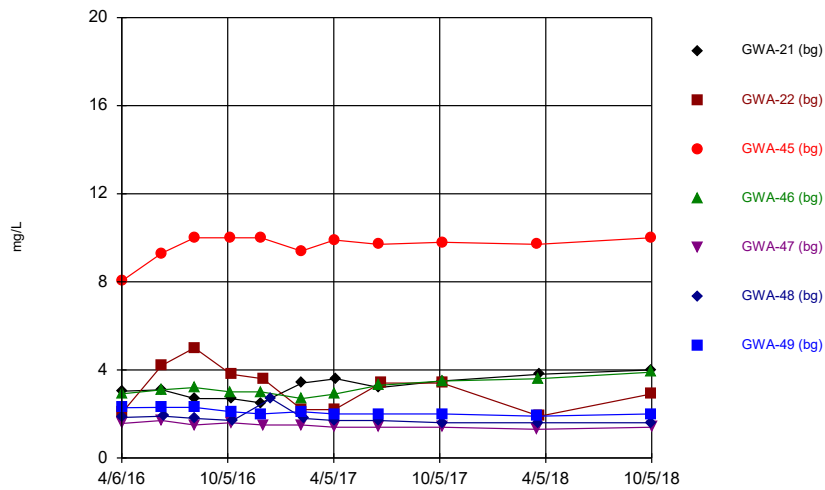
Constituent: Calcium Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



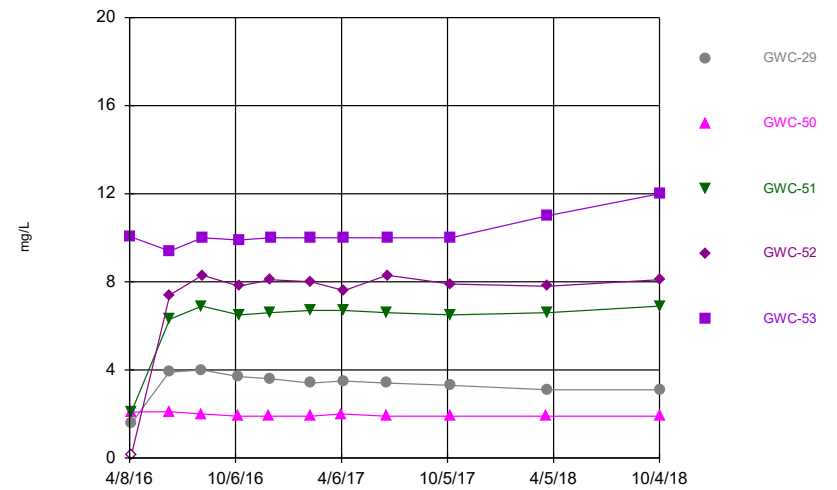
Constituent: Calcium Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



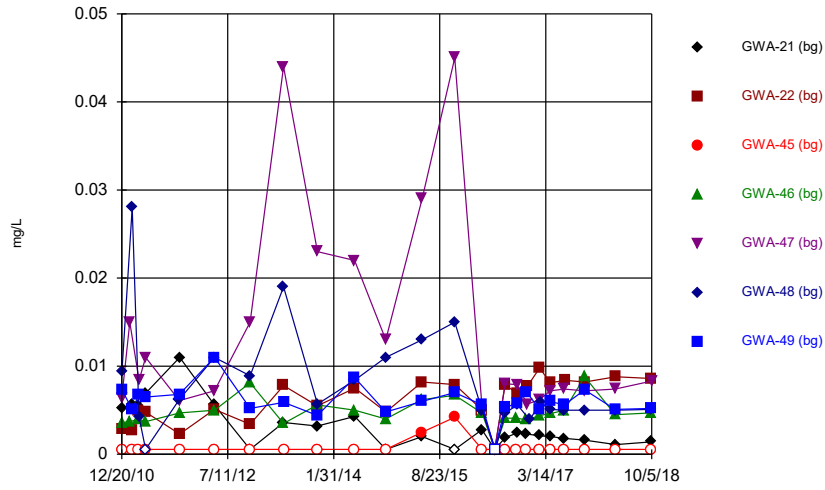
Constituent: Chloride Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



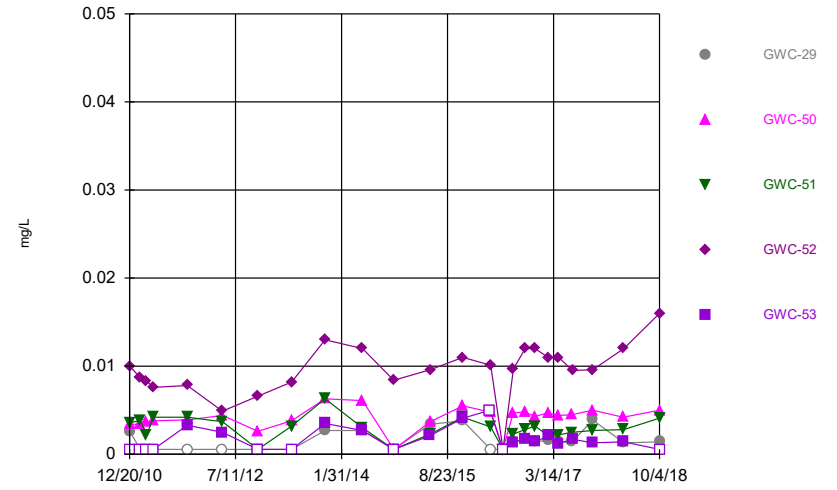
Constituent: Chloride Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



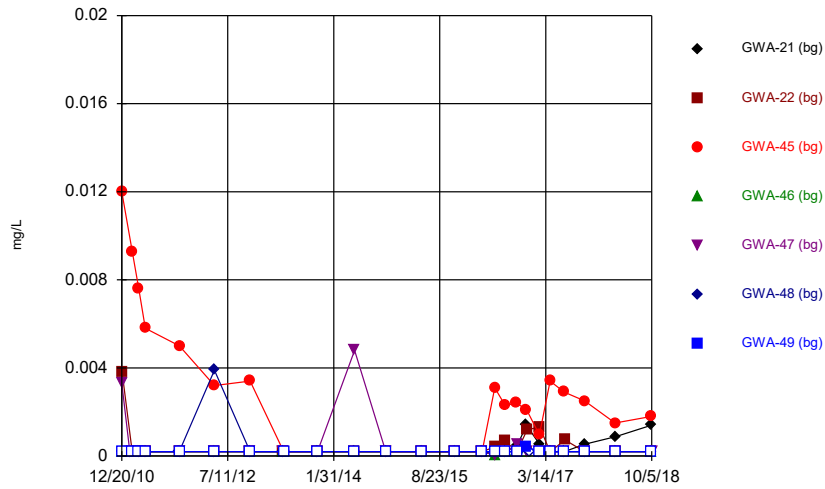
Constituent: Chromium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



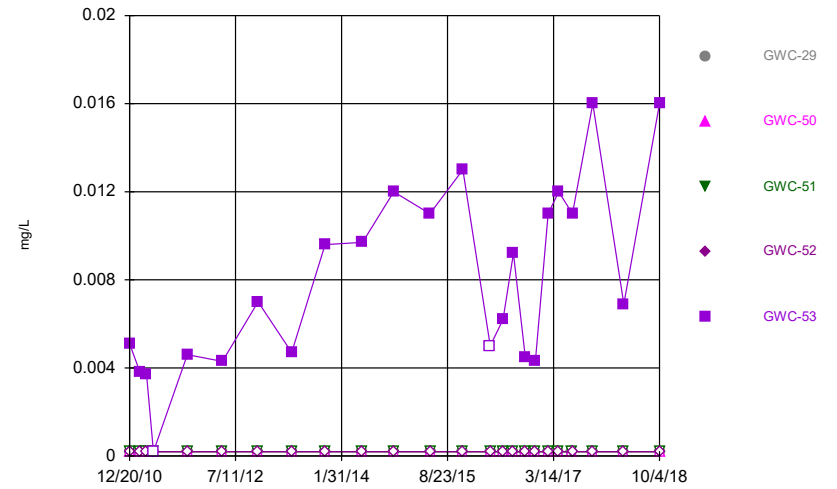
Constituent: Chromium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



Constituent: Cobalt, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

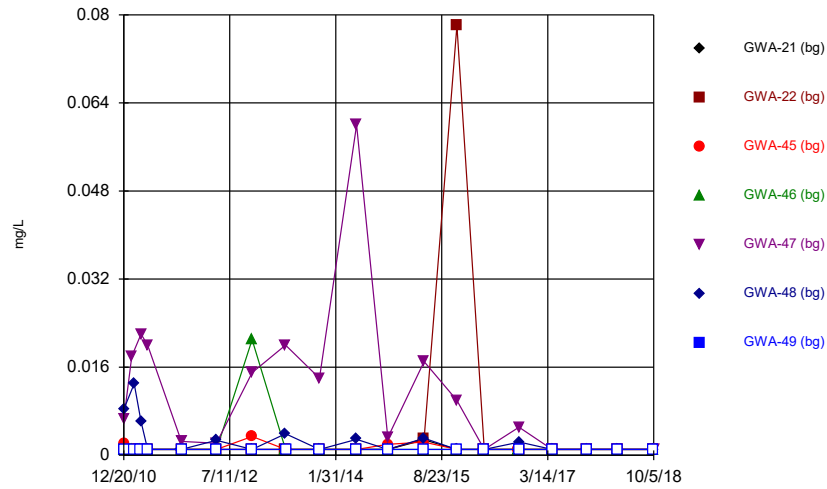
Time Series



Constituent: Cobalt, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

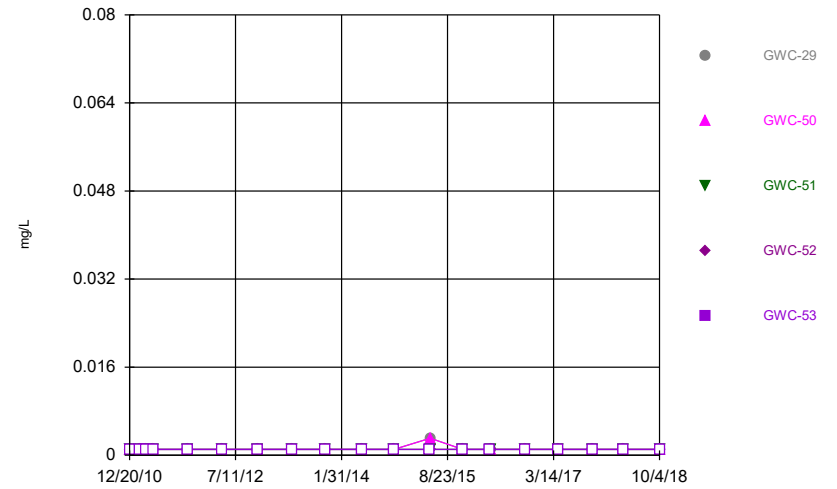


Time Series



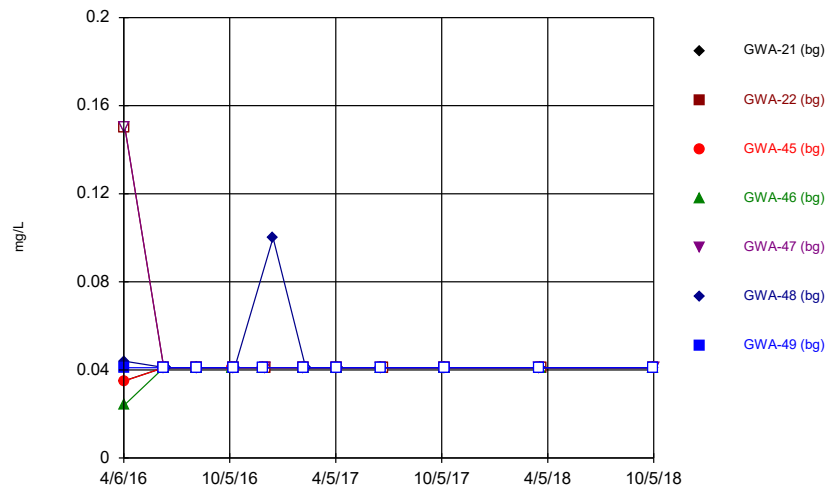
Constituent: Copper, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



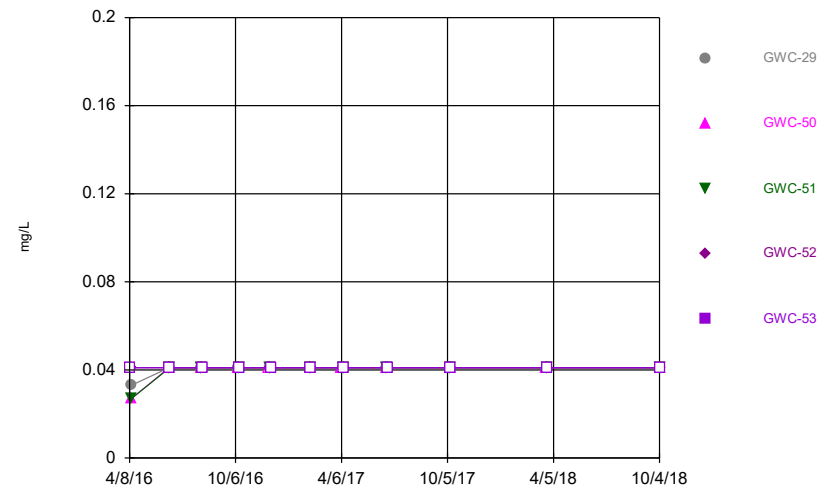
Constituent: Copper, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



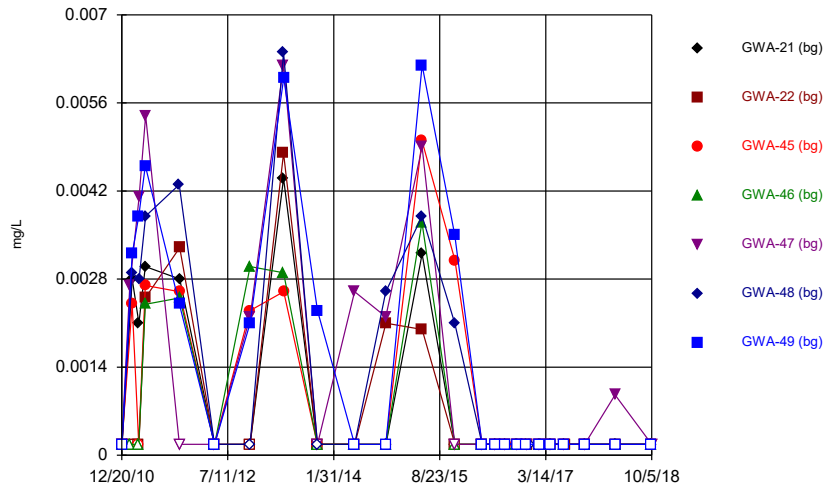
Constituent: Fluoride Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



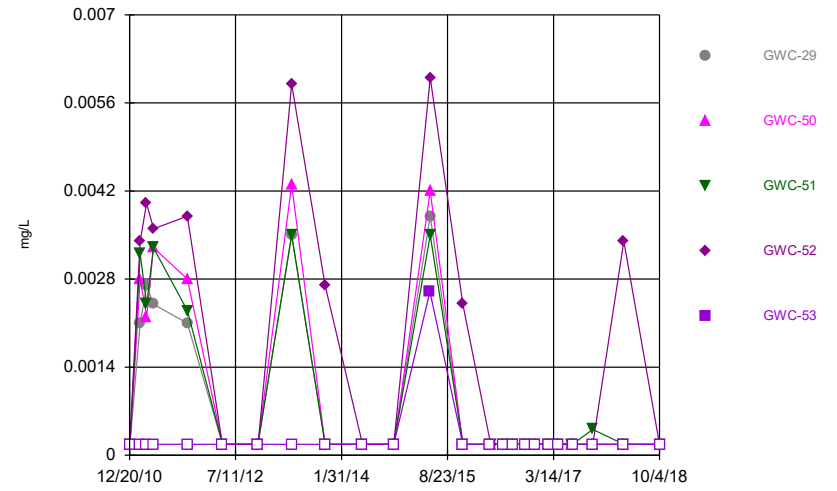
Constituent: Fluoride Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



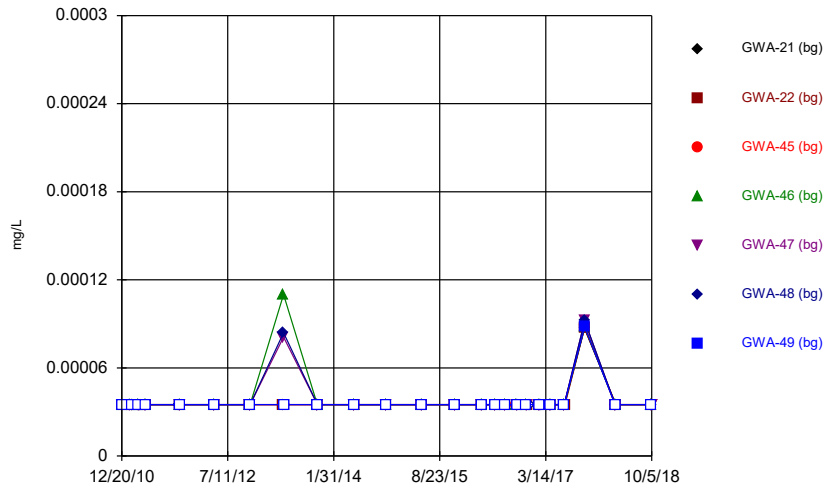
Constituent: Lead, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



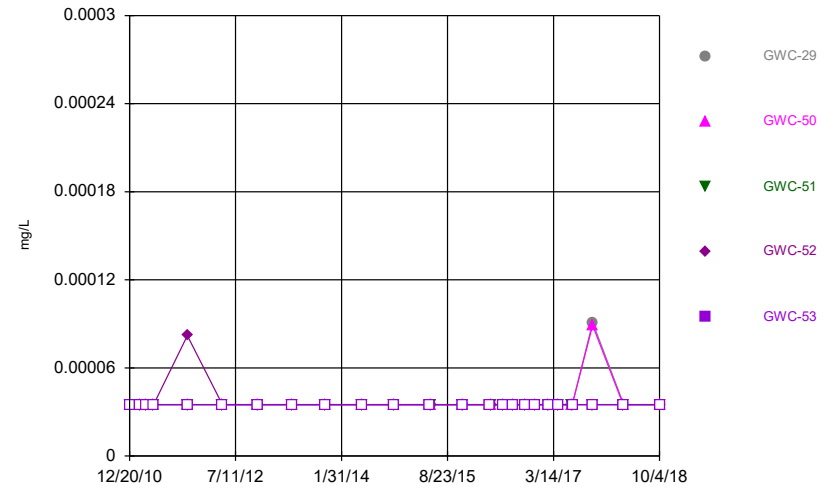
Constituent: Lead, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



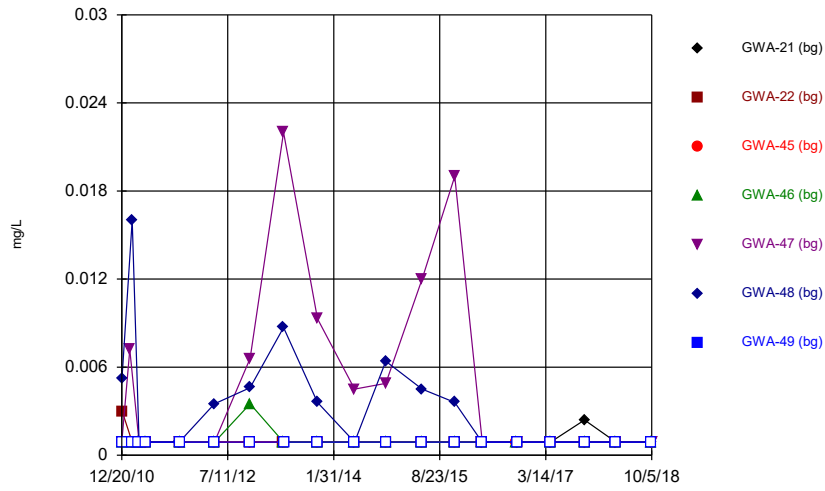
Constituent: Mercury, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



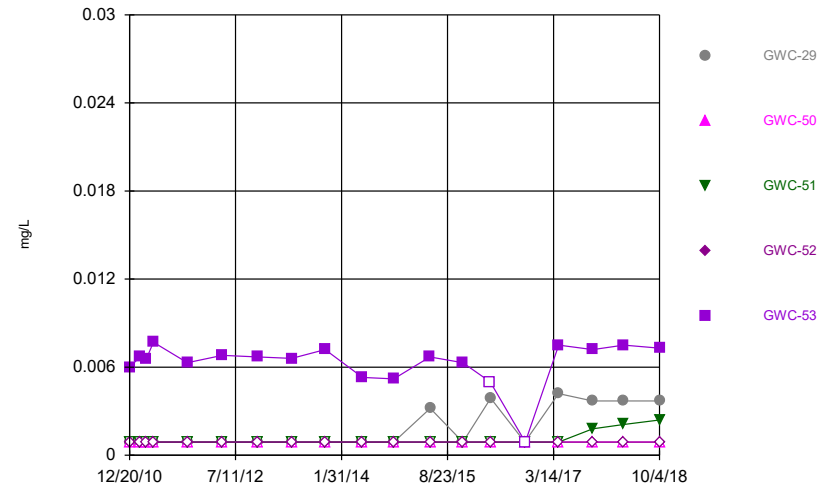
Constituent: Mercury, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



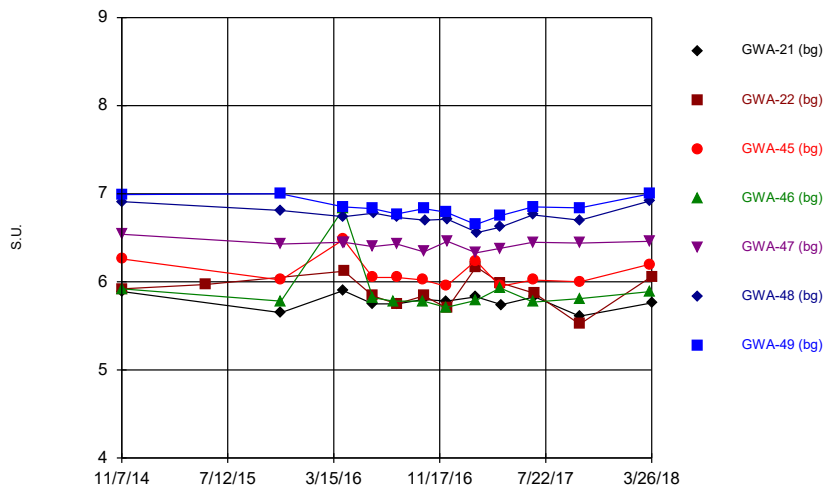
Constituent: Nickel, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



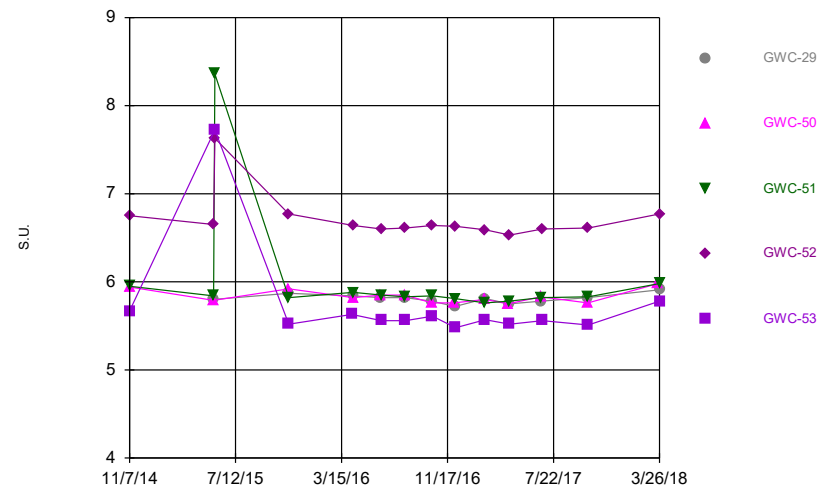
Constituent: Nickel, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



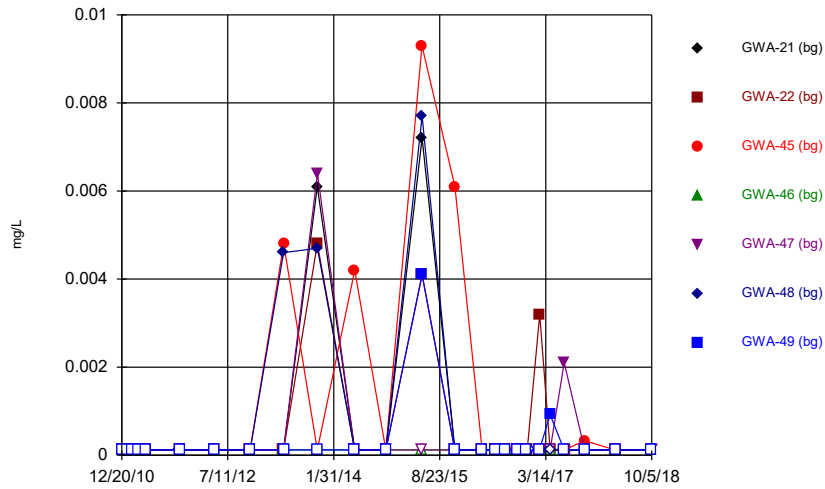
Constituent: pH Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



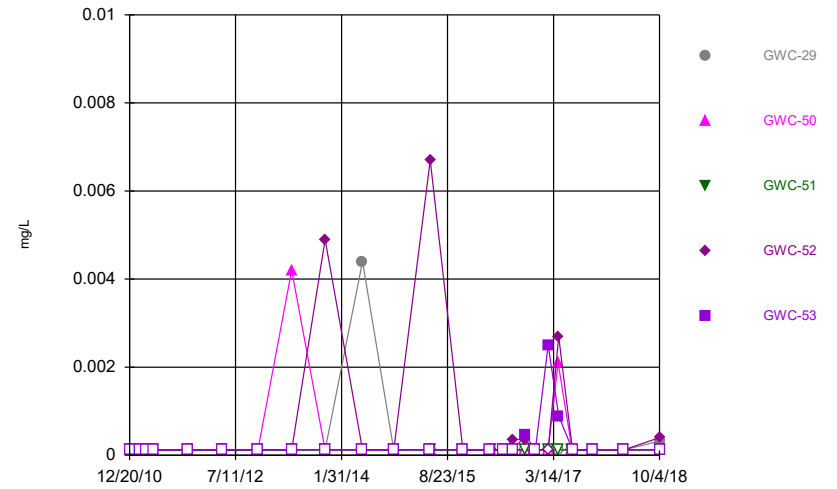
Constituent: pH Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



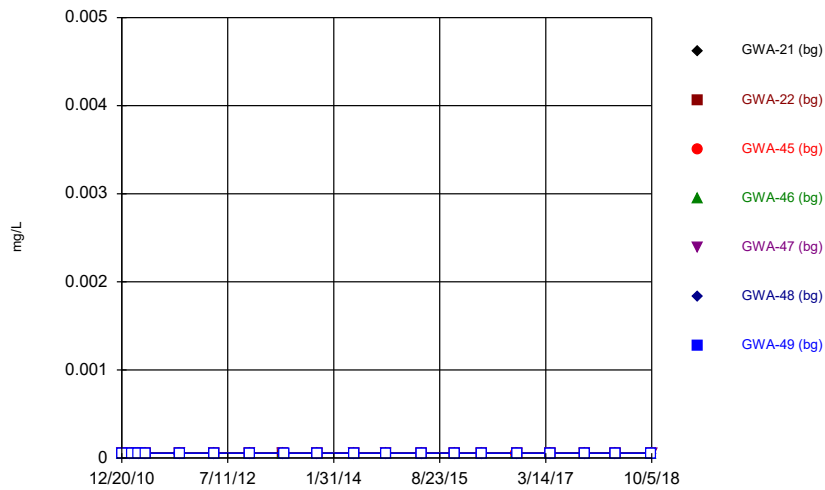
Constituent: Selenium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



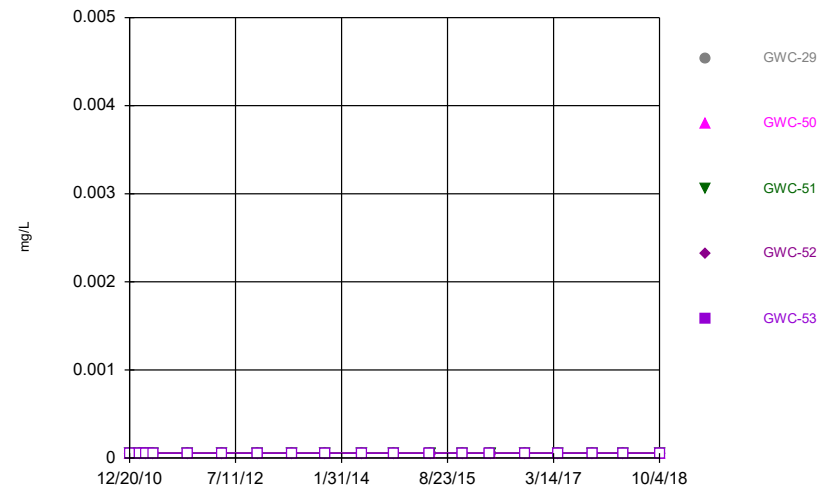
Constituent: Selenium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



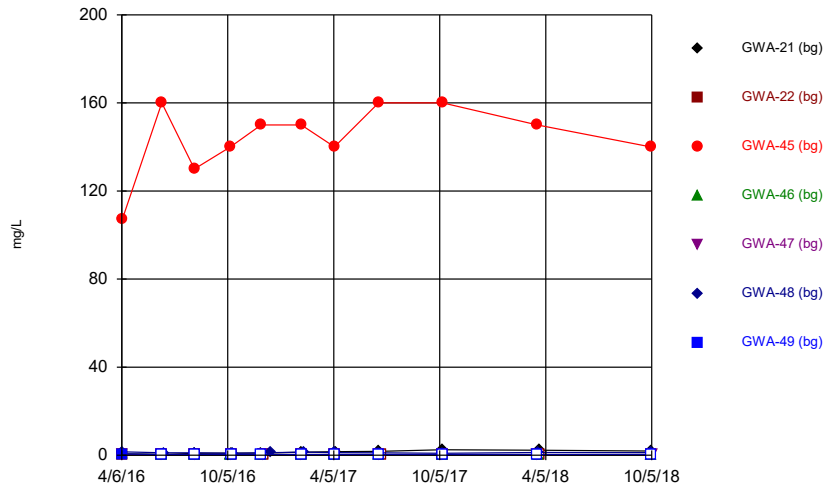
Constituent: Silver, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



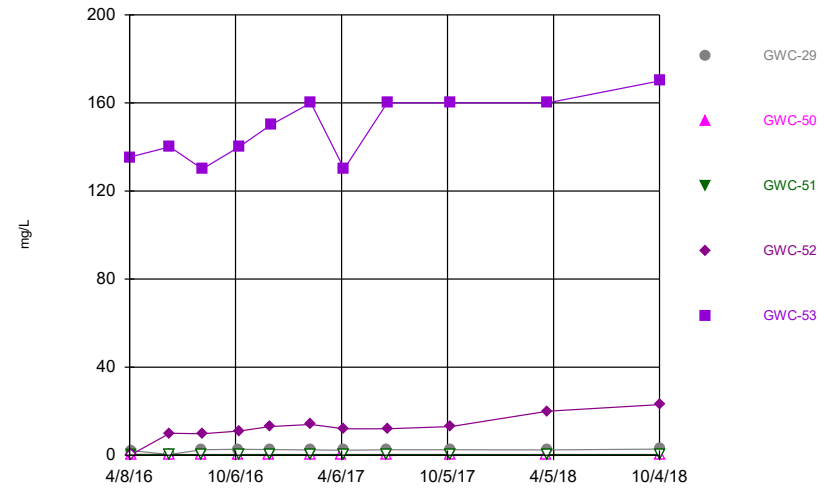
Constituent: Silver, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



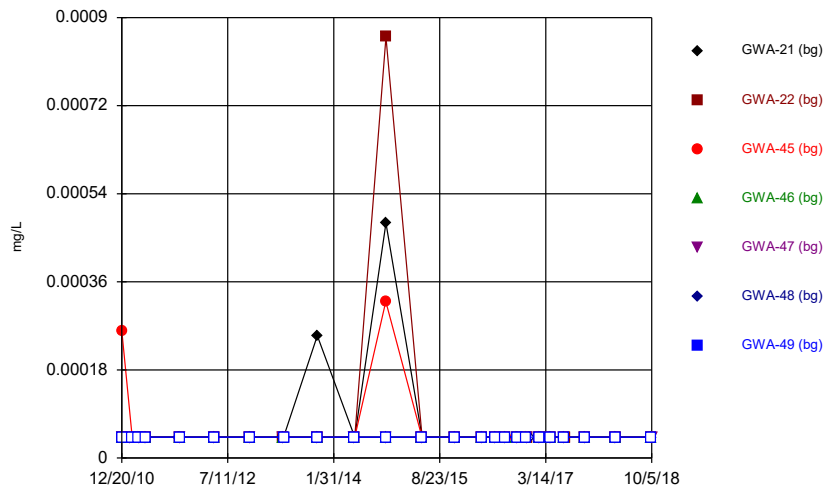
Constituent: Sulfate Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



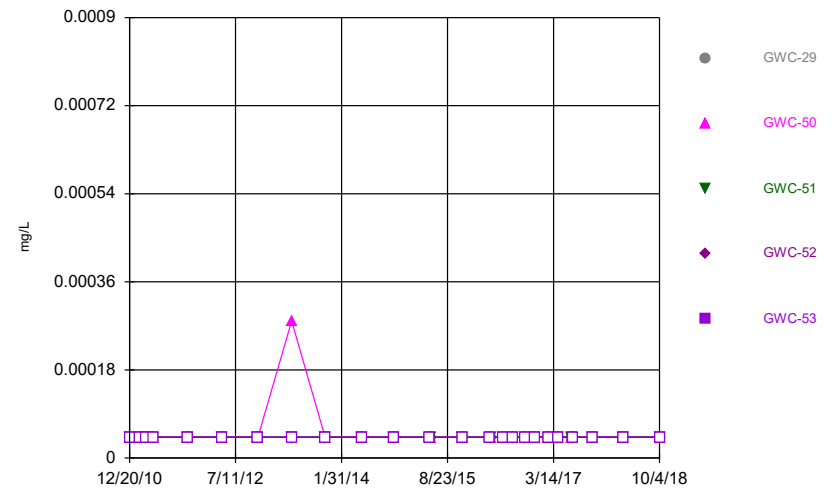
Constituent: Sulfate Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



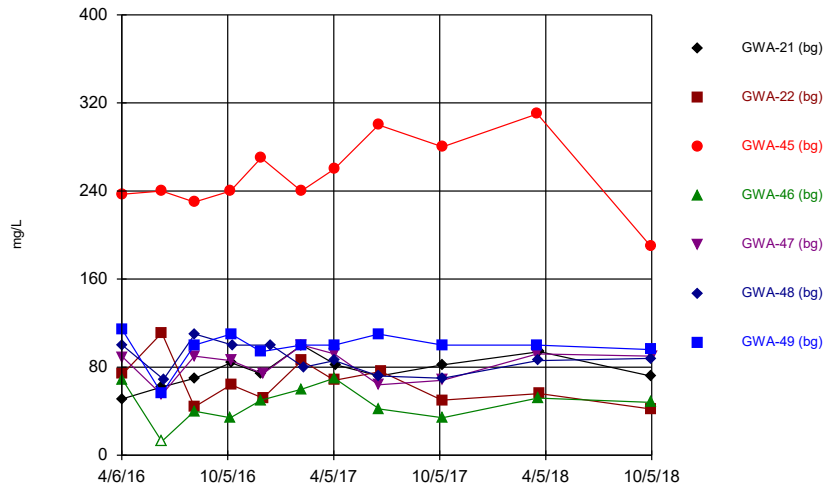
Constituent: Thallium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



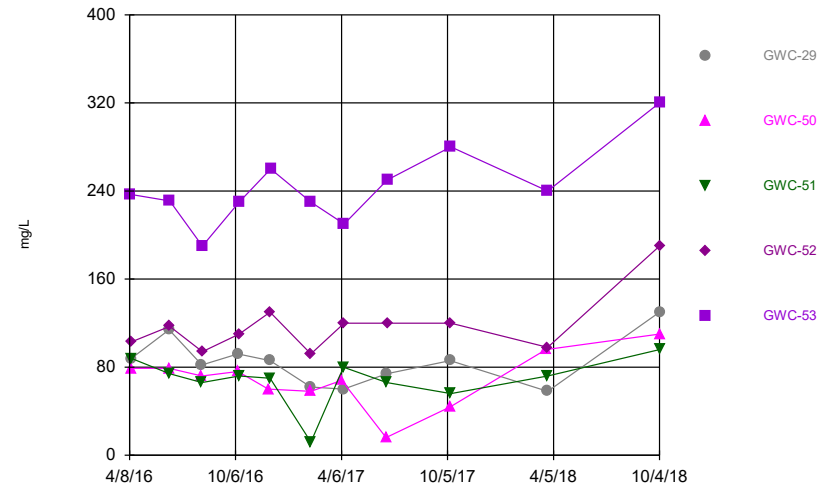
Constituent: Thallium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



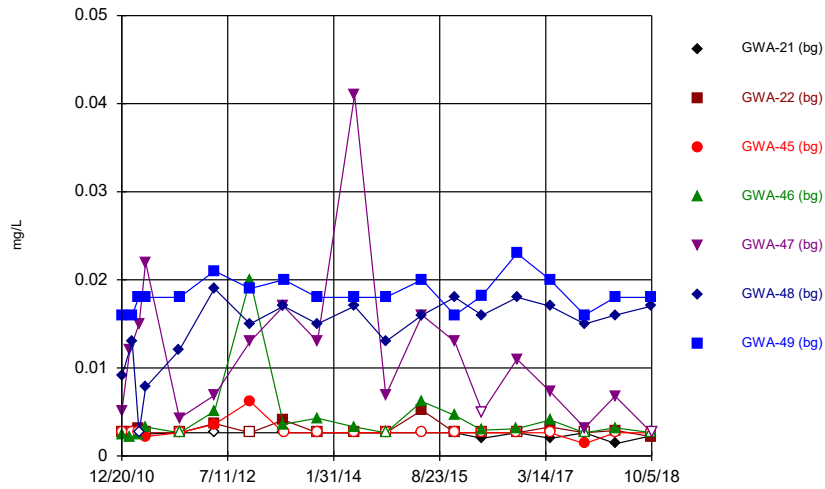
Constituent: Total Dissolved Solids Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



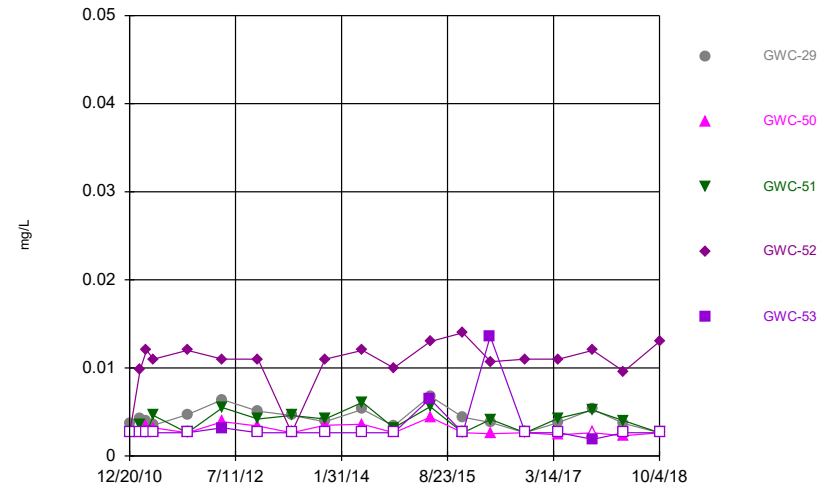
Constituent: Total Dissolved Solids Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



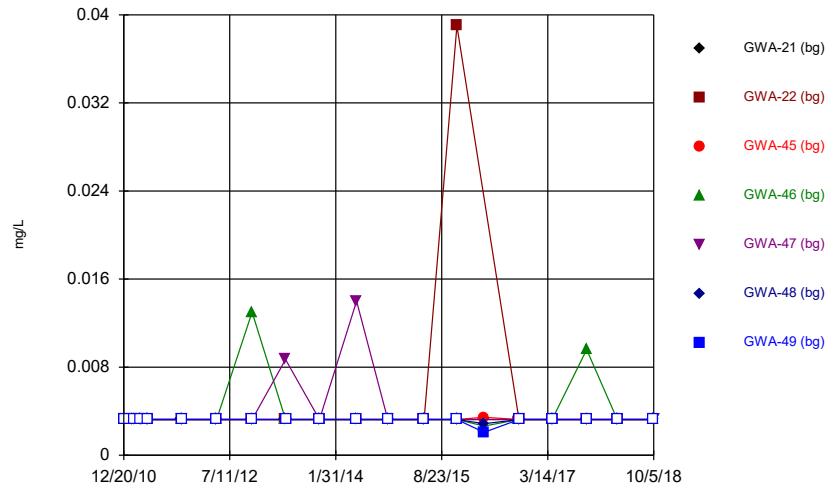
Constituent: Vanadium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



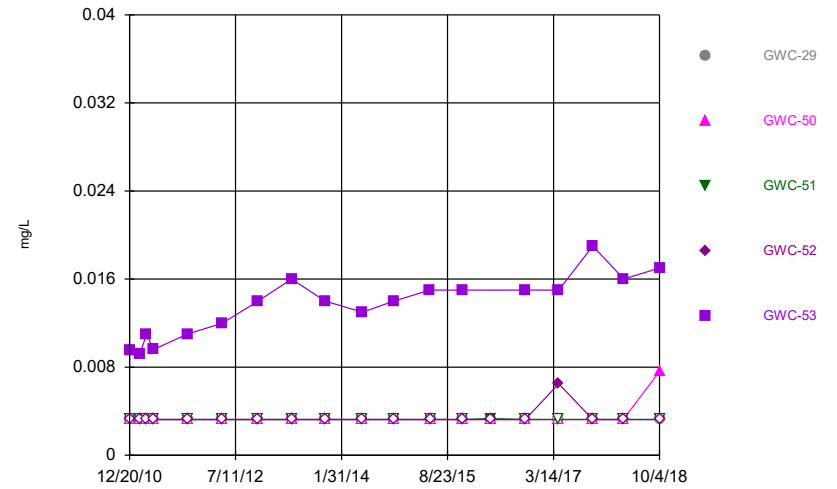
Constituent: Vanadium, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series



Constituent: Zinc, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Time Series

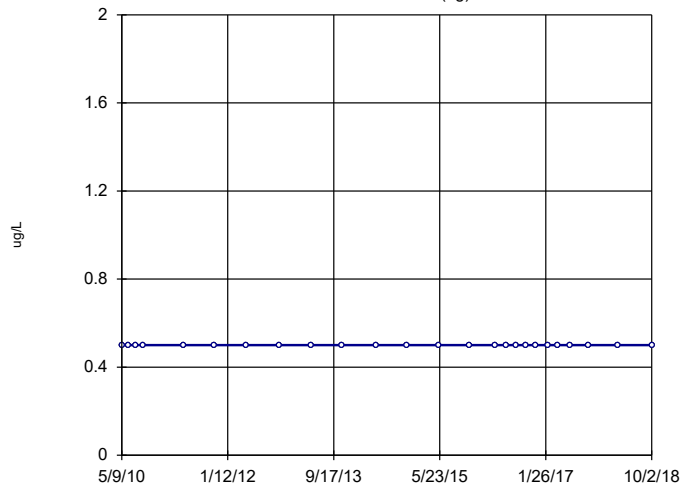


Constituent: Zinc, Total Analysis Run 1/23/2019 5:10 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR



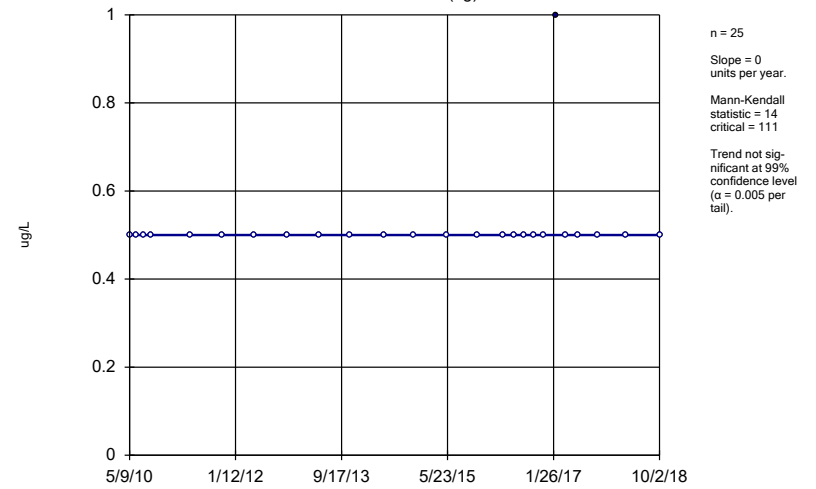
**APPENDIX B**  
**TREND PLOTS**

### Sen's Slope Estimator GWA-15 (bg)



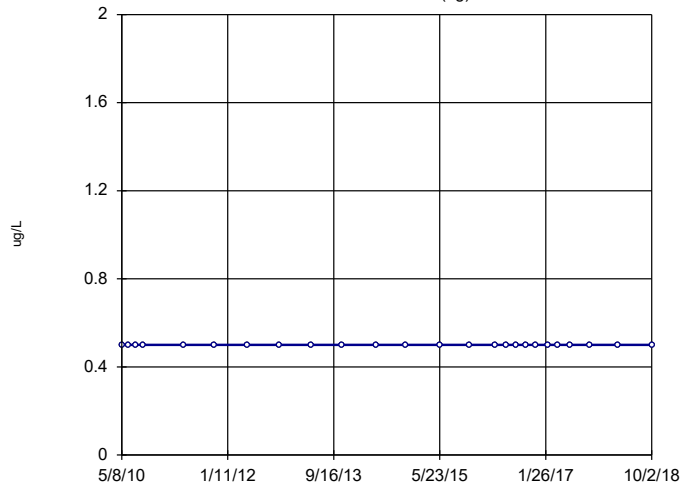
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-16 (bg)



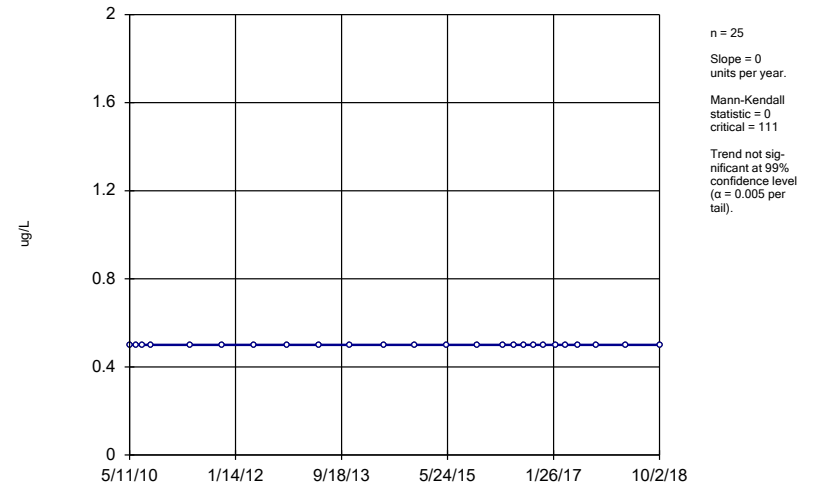
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-17 (bg)



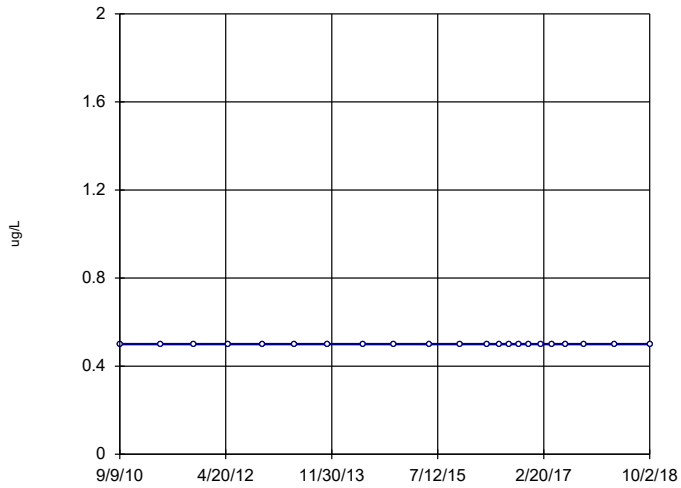
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-1



Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

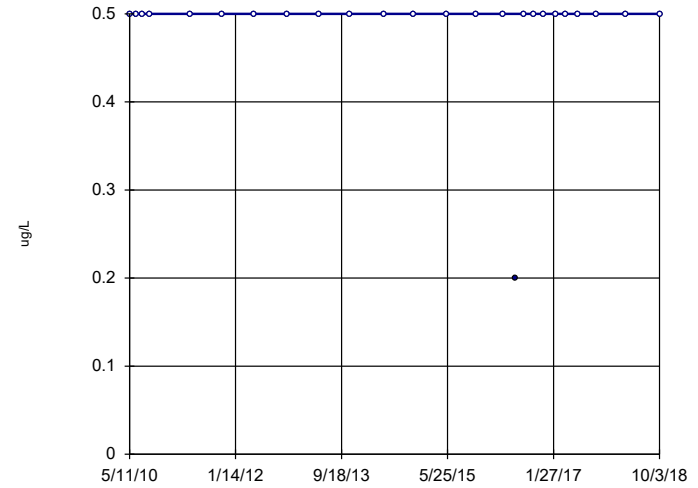
### Sen's Slope Estimator GWC-2



n = 22  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 92  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

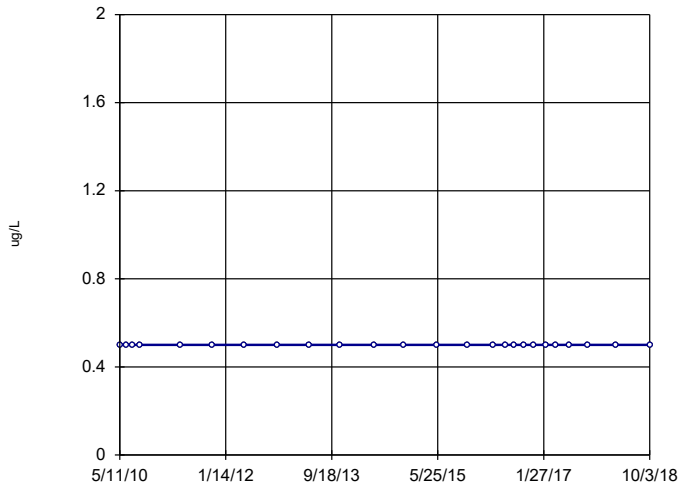
### Sen's Slope Estimator GWC-3



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

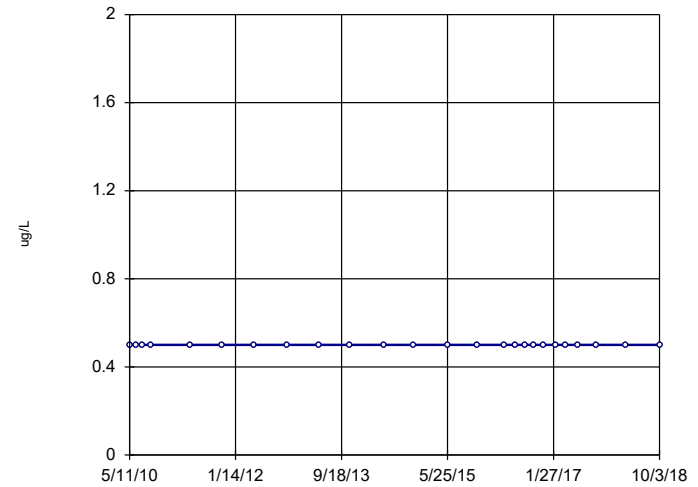
### Sen's Slope Estimator GWC-4



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-5

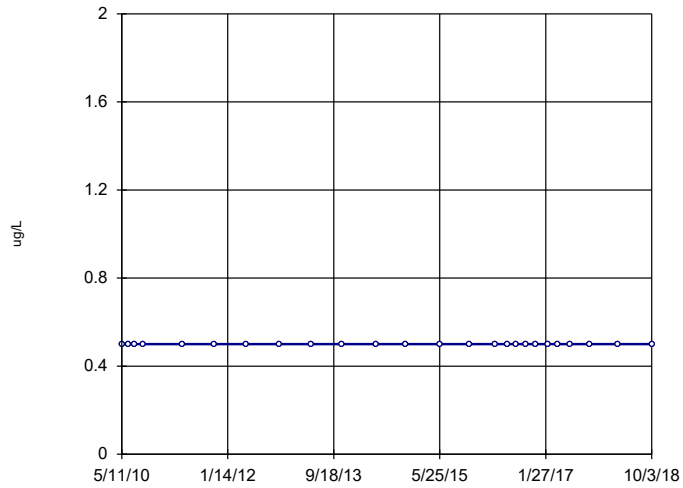


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-6

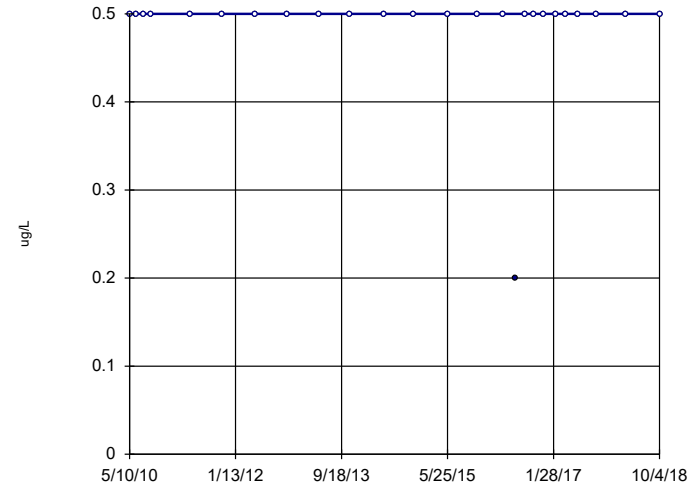


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-7

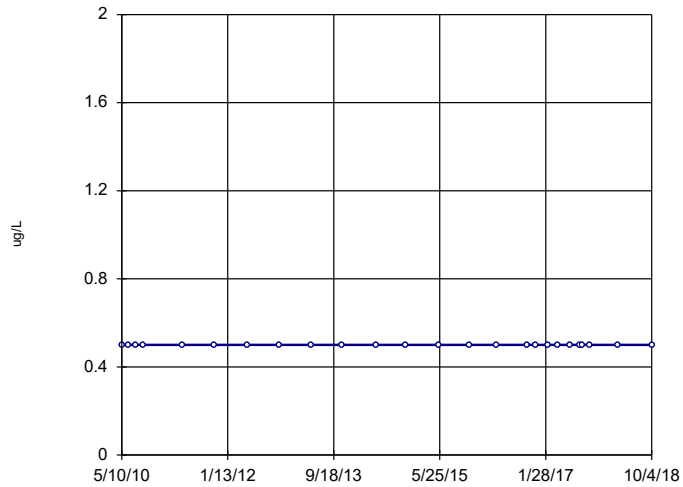


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-8A

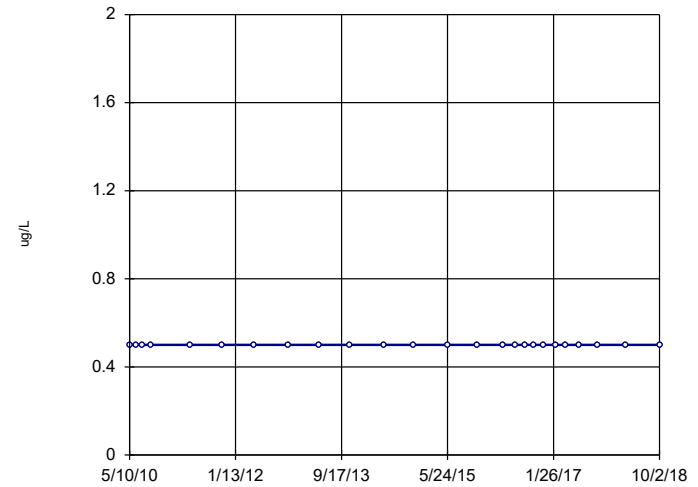


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

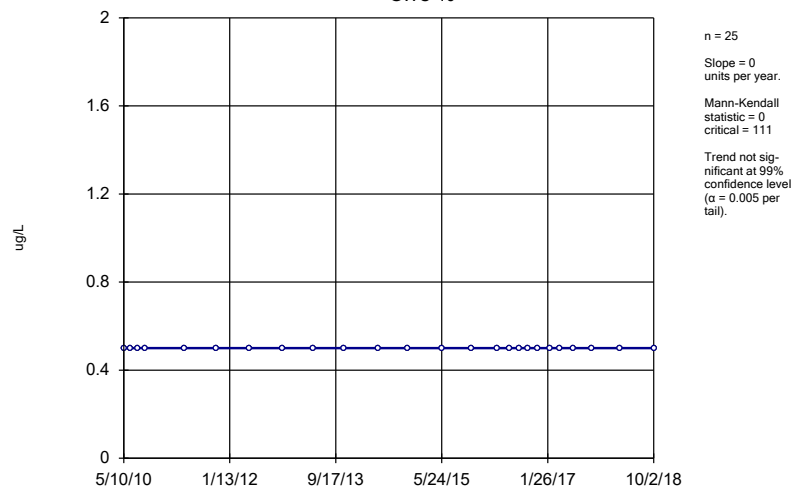
GWC-9



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

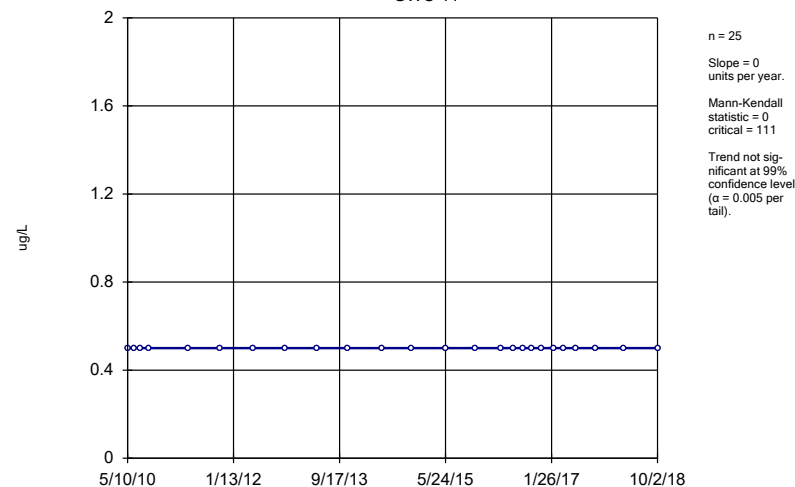
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-10



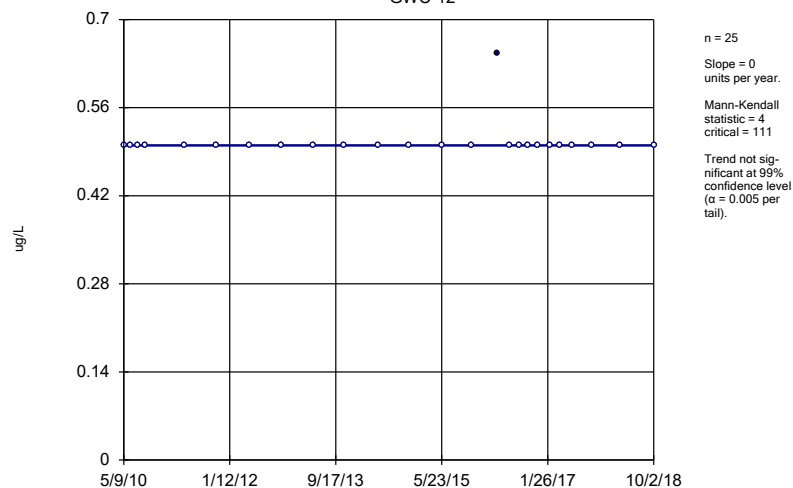
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-11



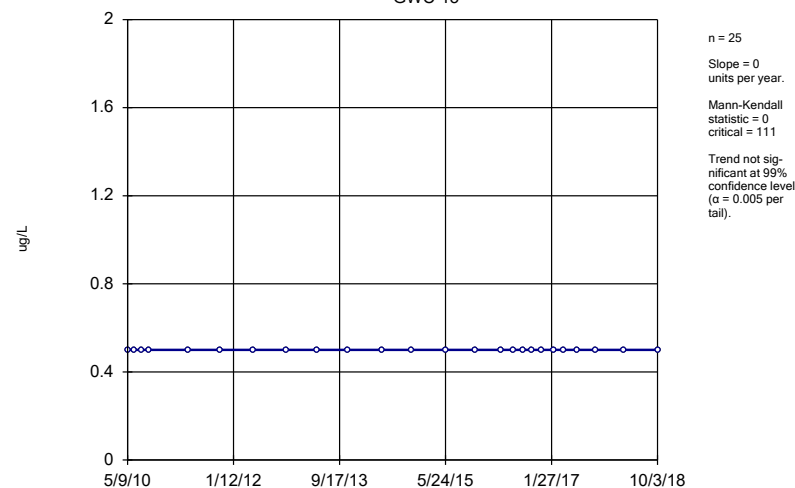
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-12



Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

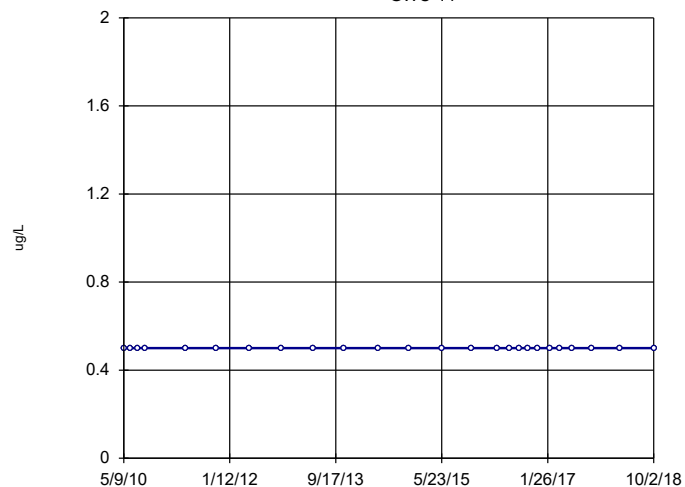
Sen's Slope Estimator  
 GWC-13



Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

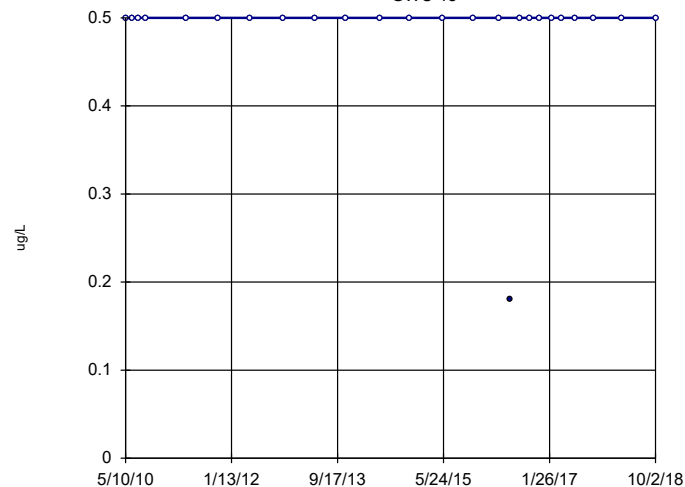


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

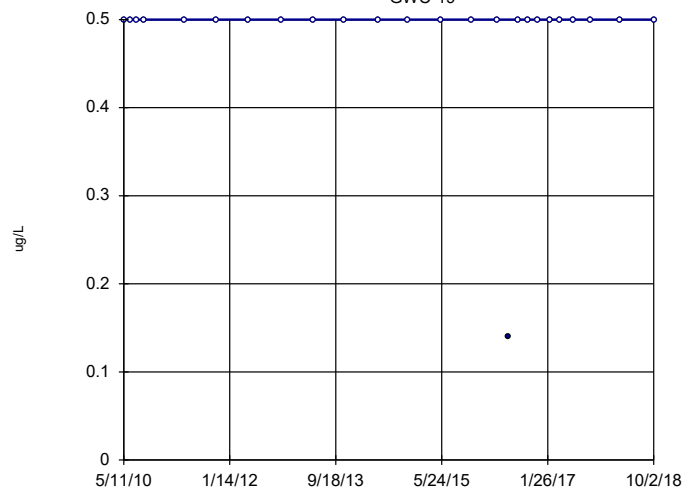


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

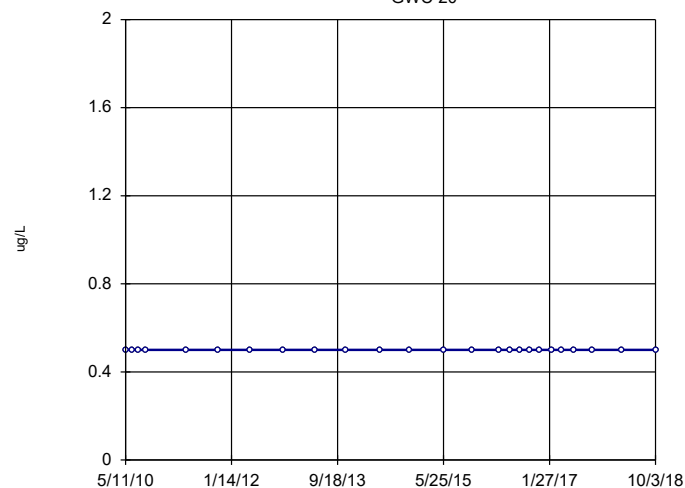


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -6  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

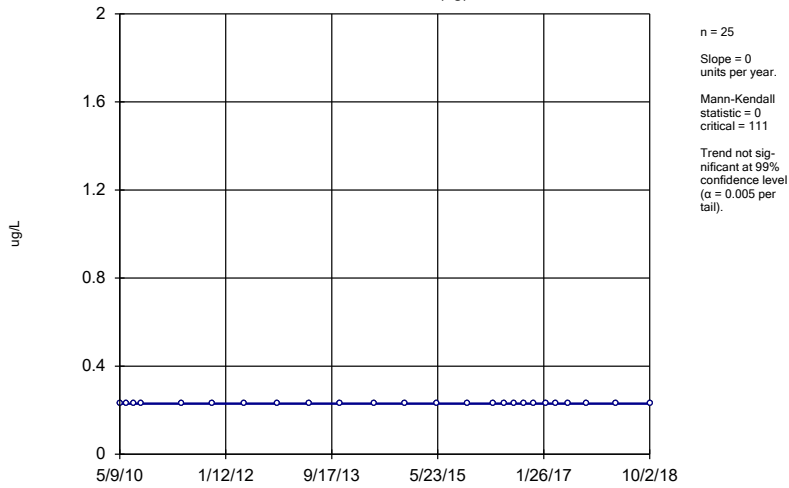
GWC-20



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

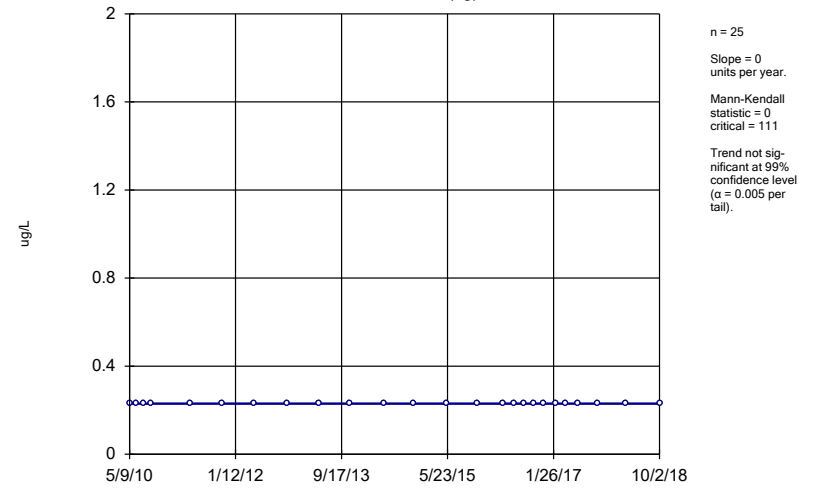
Constituent: Antimony, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-15 (bg)



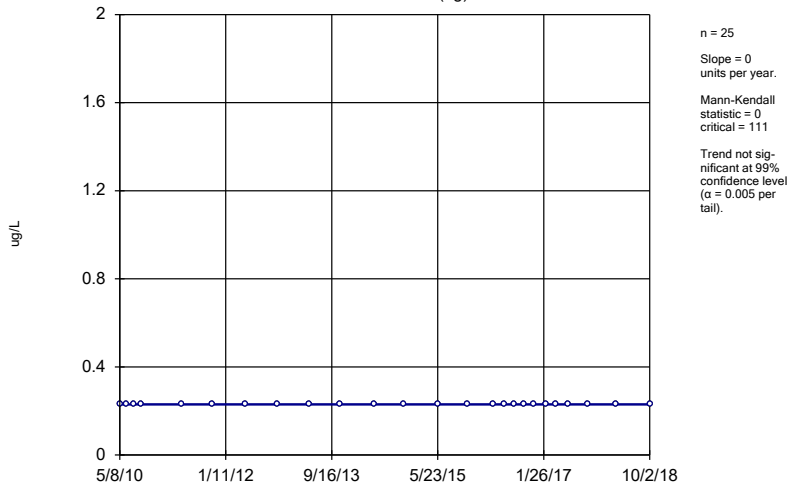
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-16 (bg)



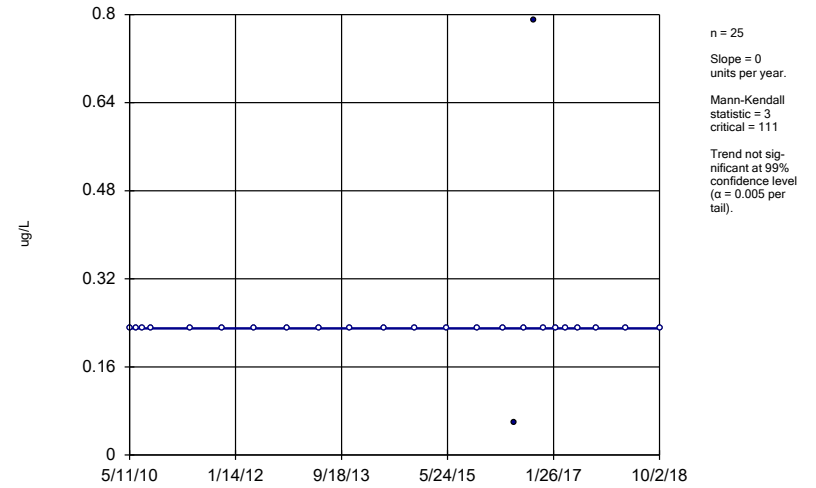
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-17 (bg)



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

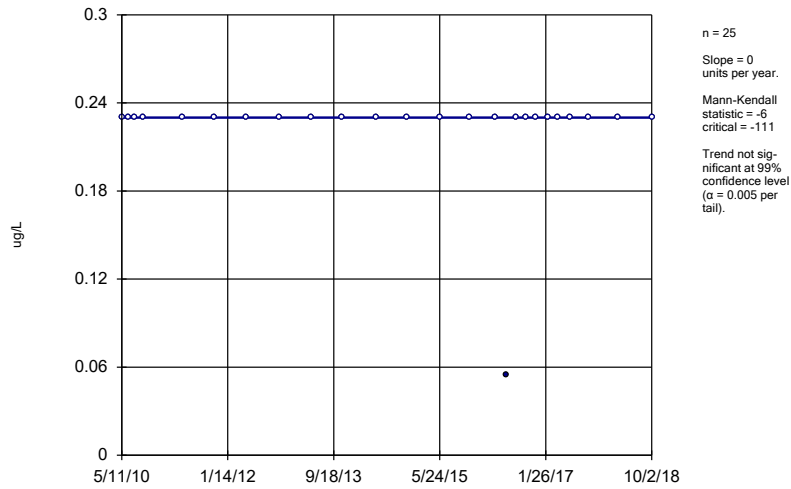
Sen's Slope Estimator  
GWC-1



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

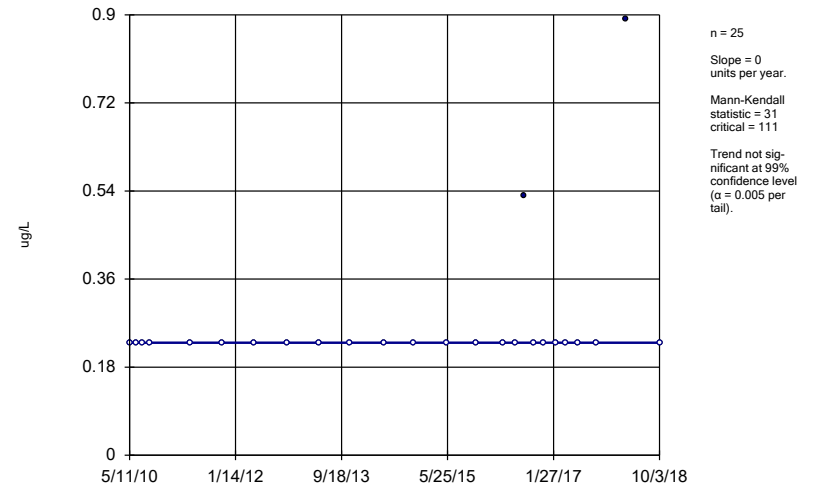


### Sen's Slope Estimator GWC-2



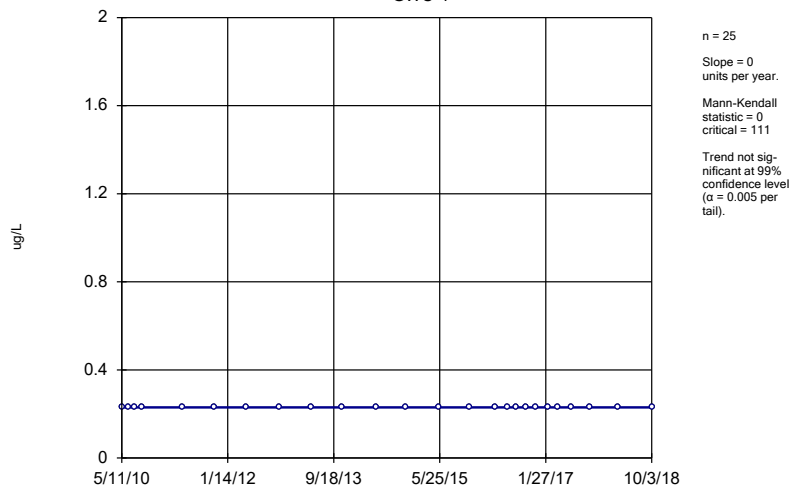
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-3



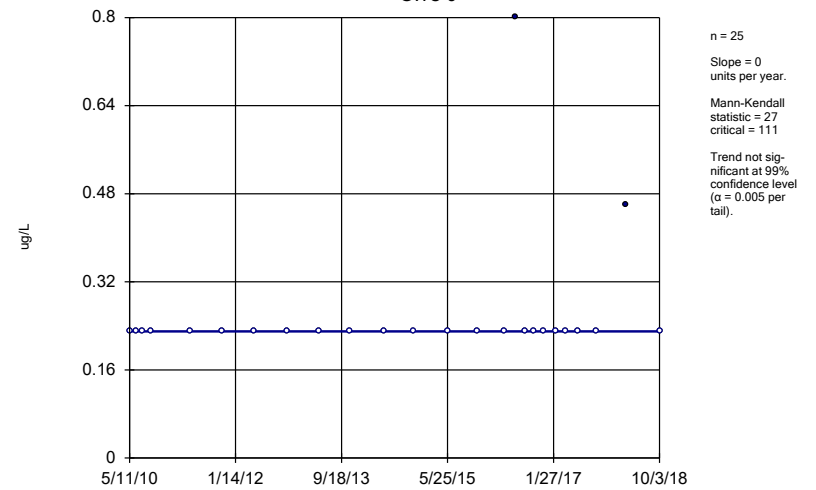
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-4



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

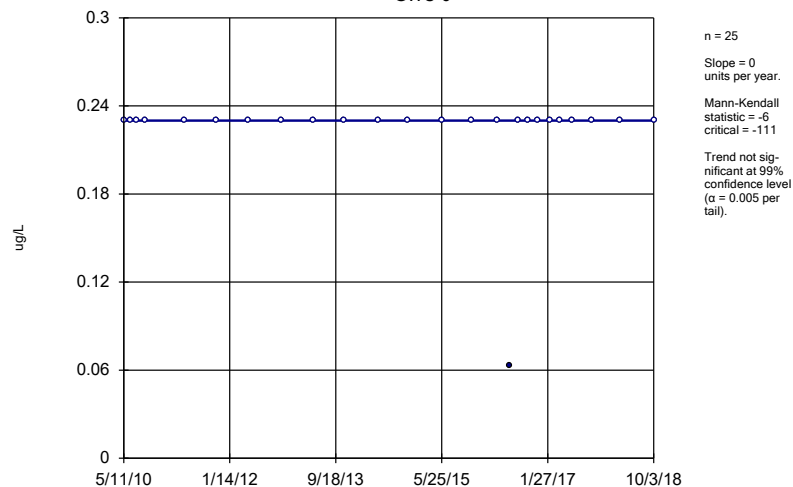
### Sen's Slope Estimator GWC-5



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

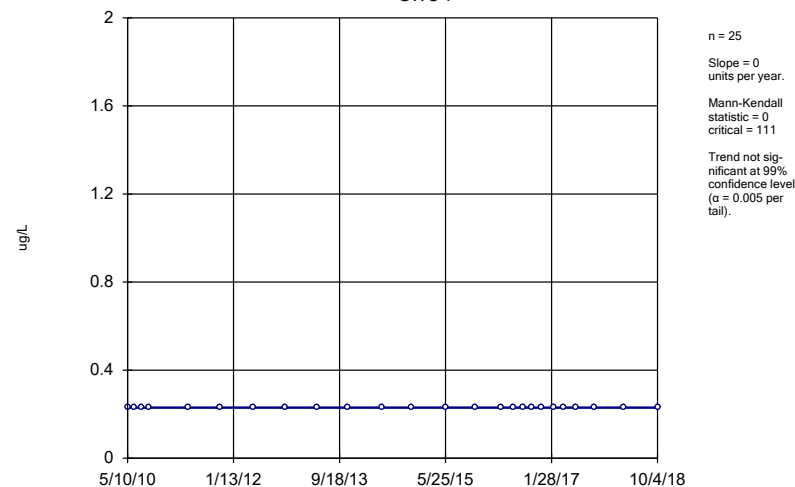
GWC-6



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

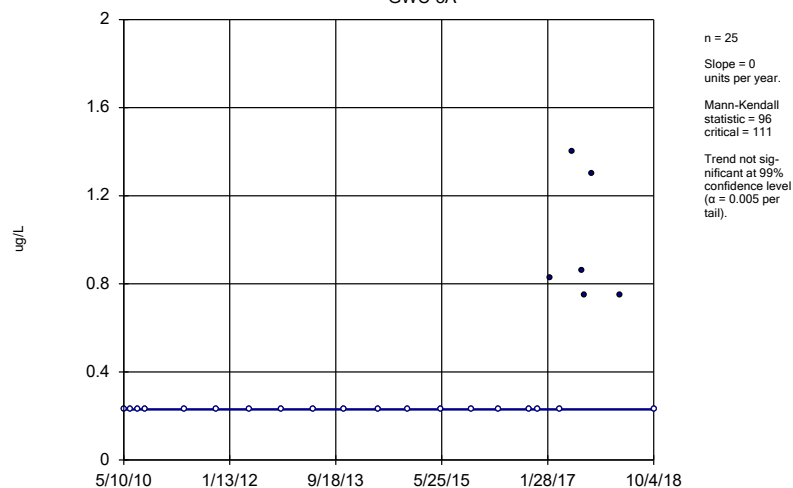
GWC-7



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

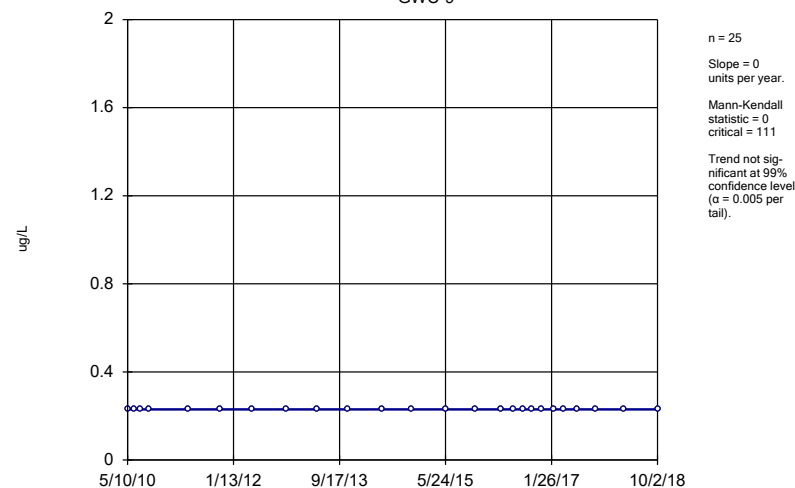
GWC-8A



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

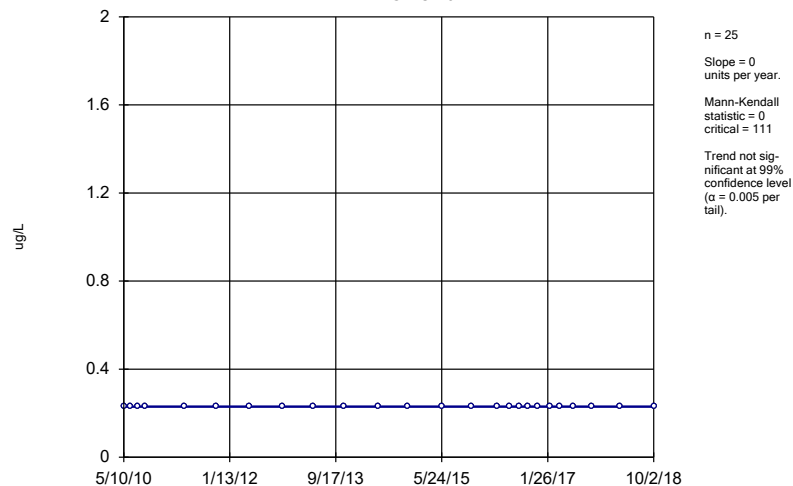
### Sen's Slope Estimator

GWC-9



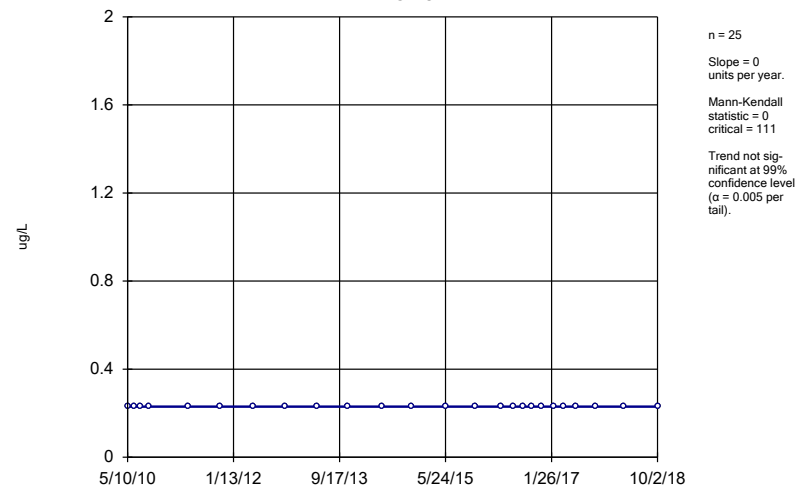
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



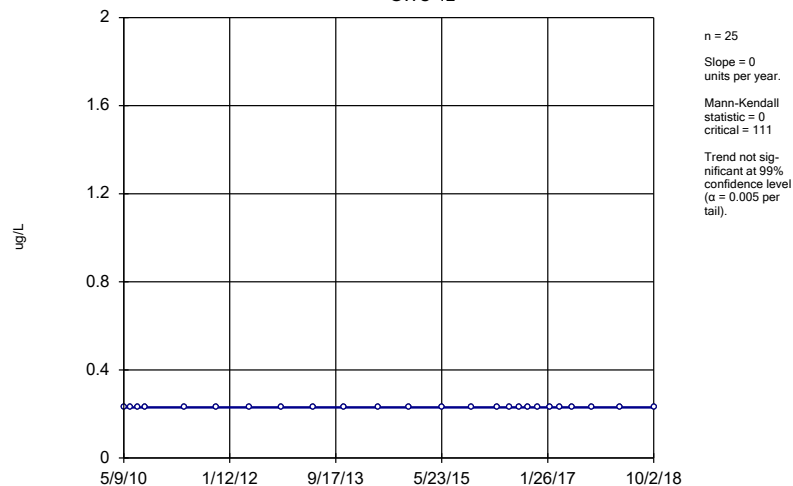
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:15 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



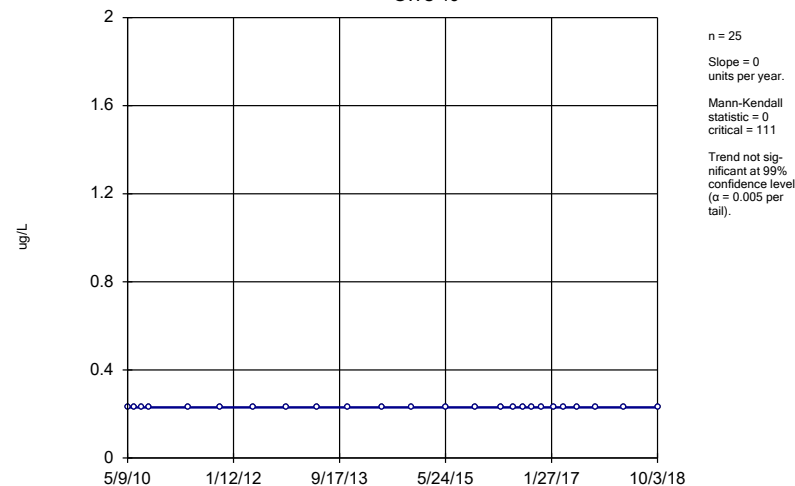
Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

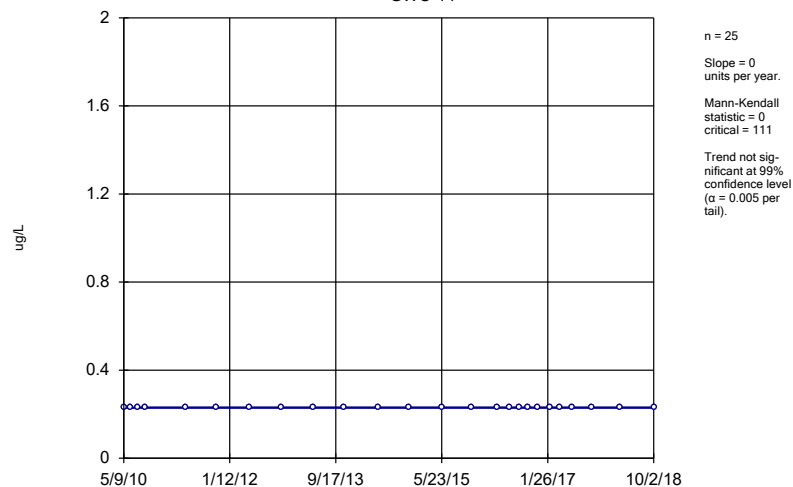
### Sen's Slope Estimator GWC-13



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

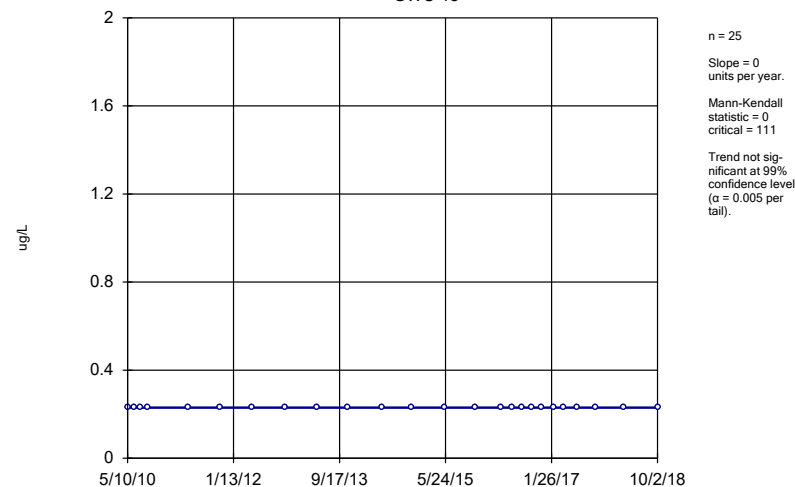
GWC-14



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

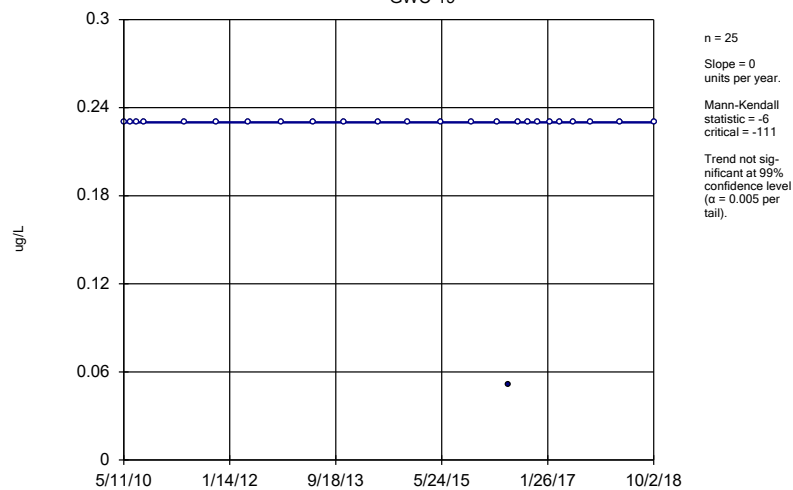
GWC-18



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

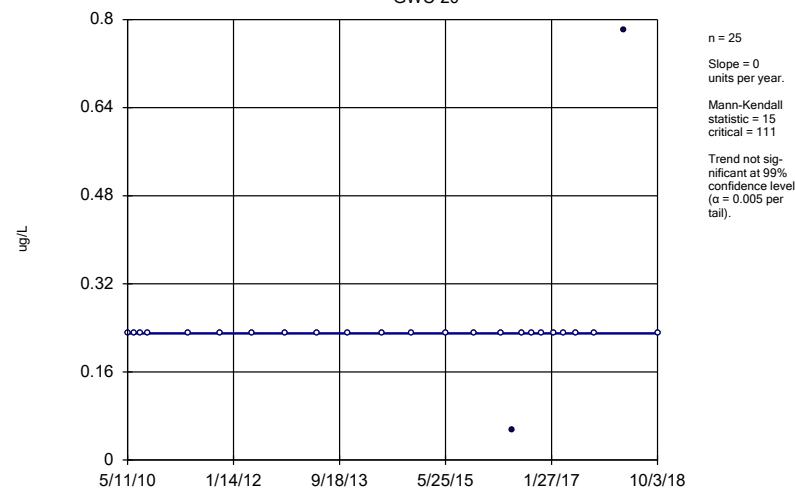
GWC-19



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

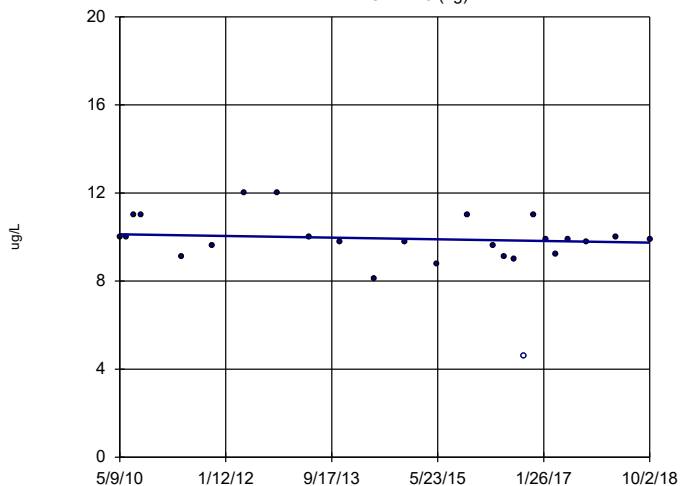
GWC-20



Constituent: Arsenic, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

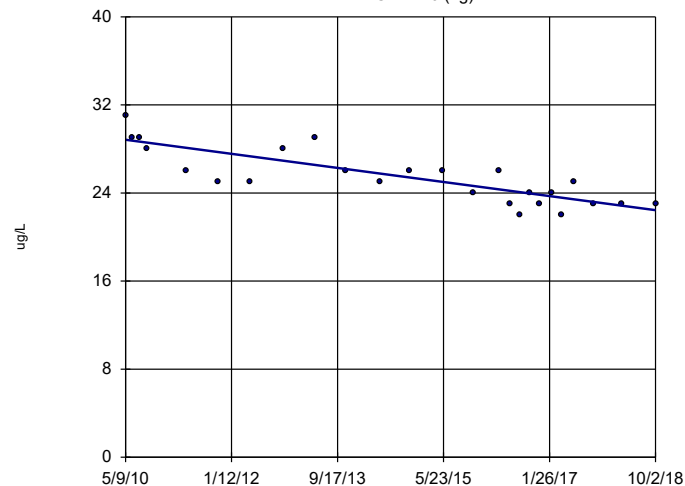


n = 25  
Slope = -0.04482  
units per year.  
Mann-Kendall  
statistic = -48  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

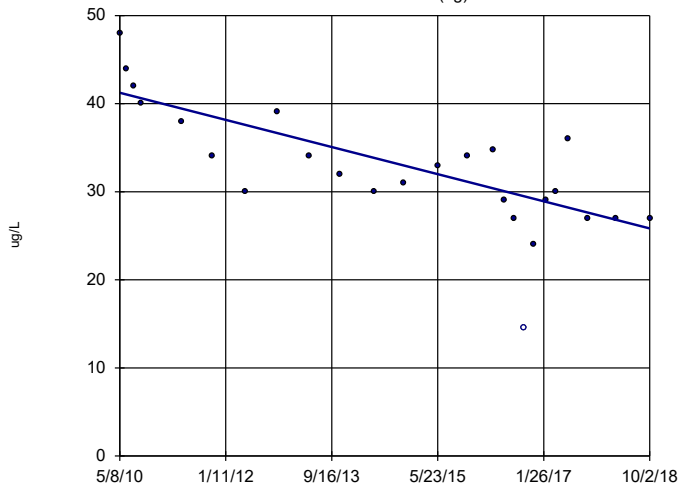


n = 25  
Slope = -0.7605  
units per year.  
Mann-Kendall  
statistic = -188  
critical = -111  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

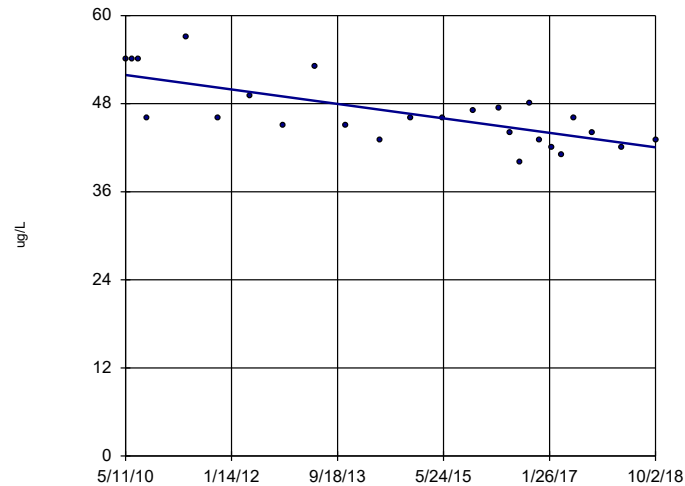


n = 25  
Slope = -1.833  
units per year.  
Mann-Kendall  
statistic = -179  
critical = -111  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

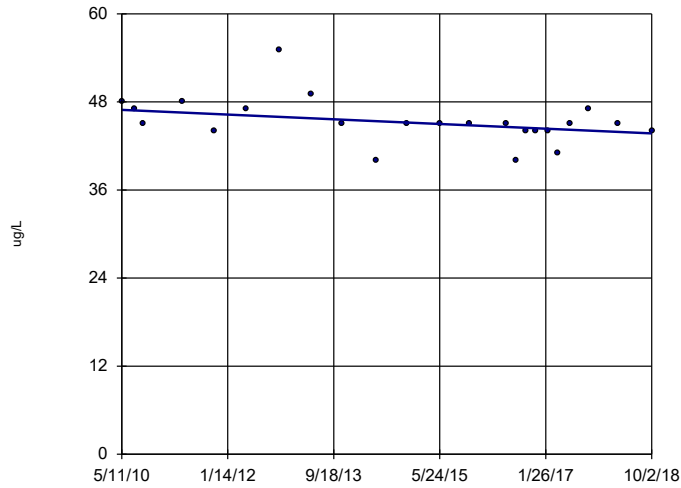


n = 25  
Slope = -1.174  
units per year.  
Mann-Kendall  
statistic = -151  
critical = -111  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

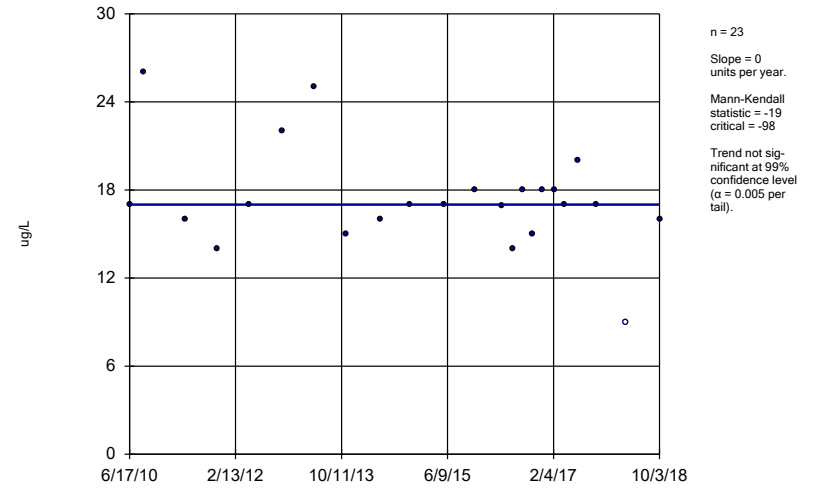


Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

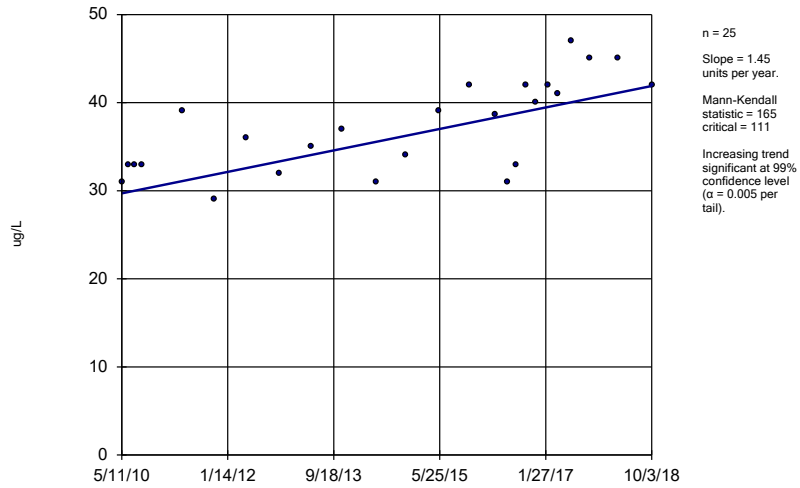
GWC-3



Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

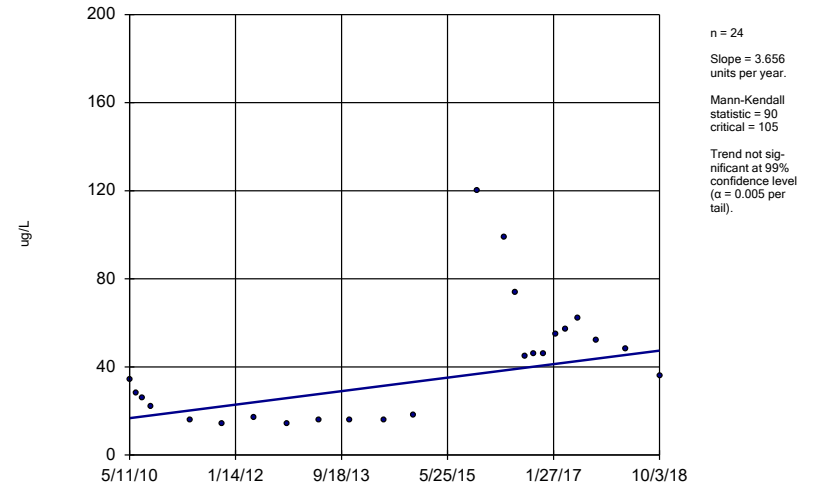
GWC-4



Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

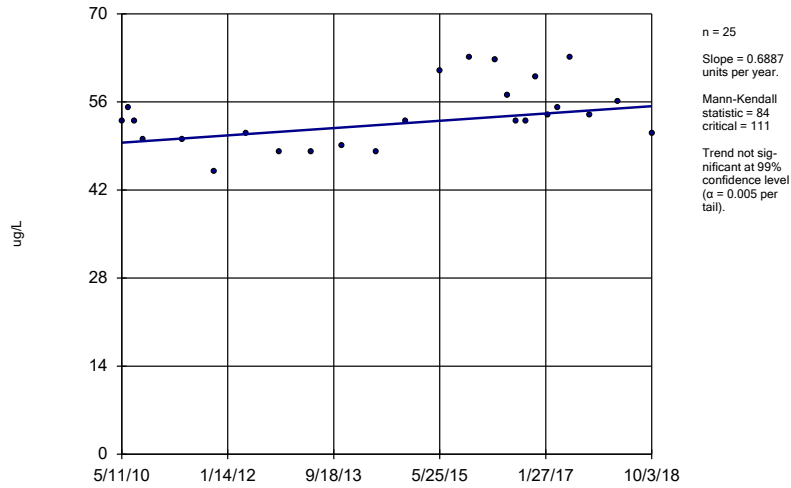
### Sen's Slope Estimator

GWC-5



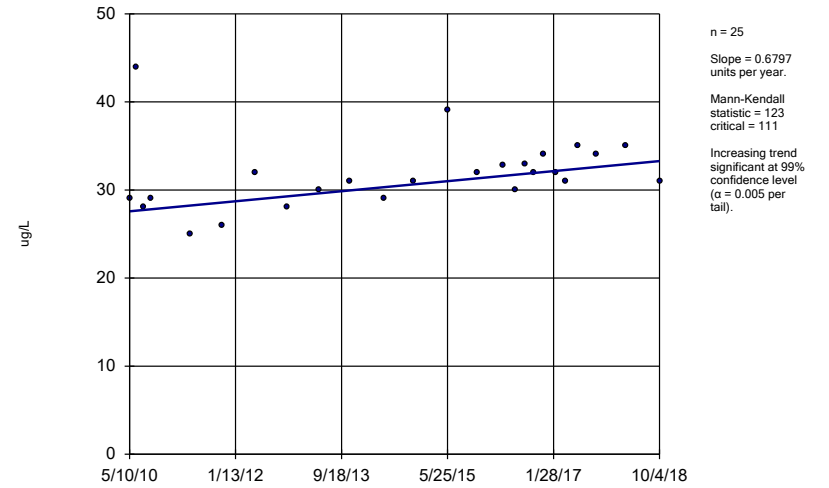
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-6



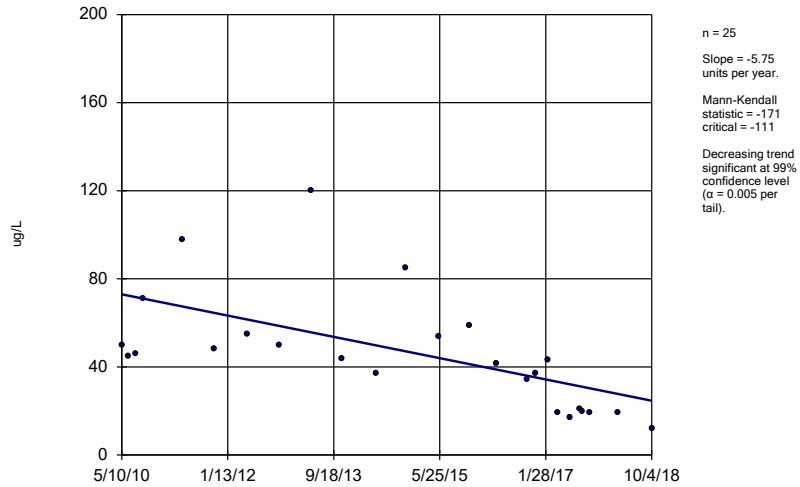
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-7



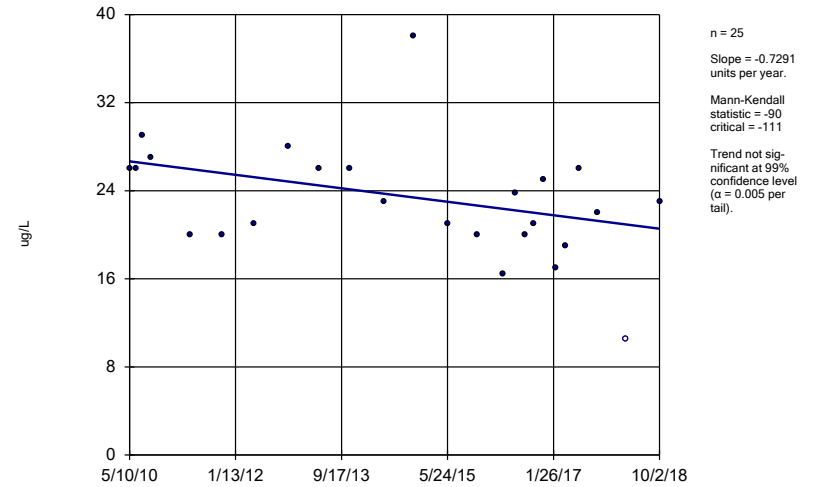
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-8A



Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

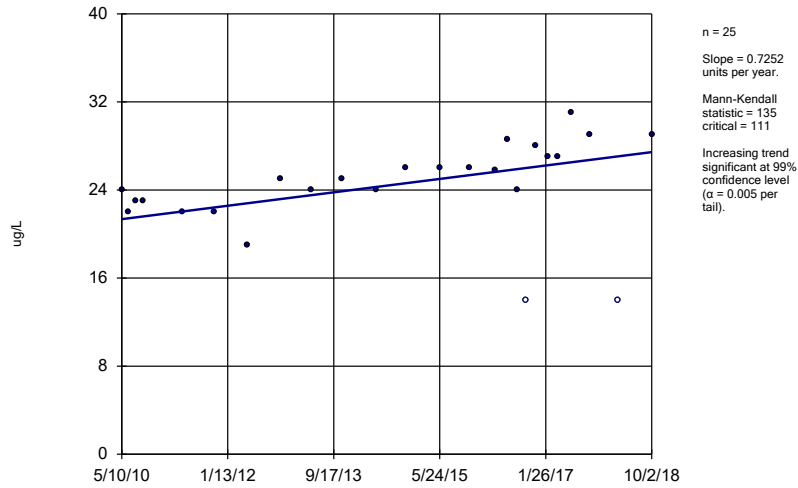
Sen's Slope Estimator  
GWC-9



Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

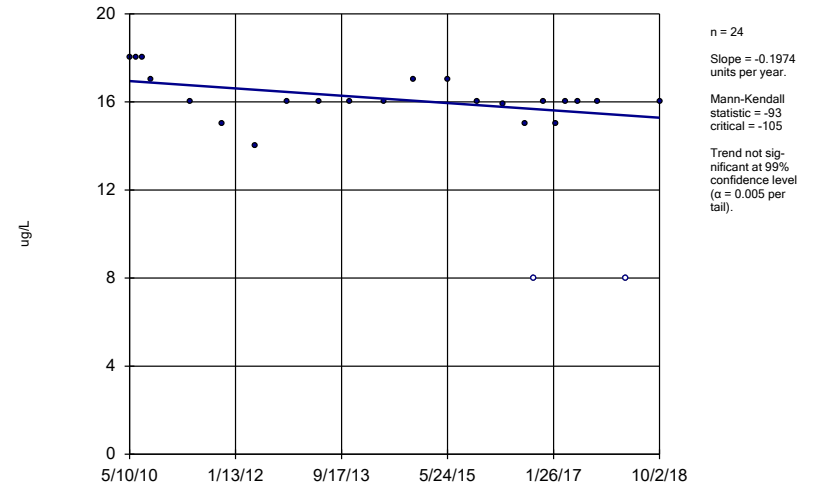


Sen's Slope Estimator  
GWC-10



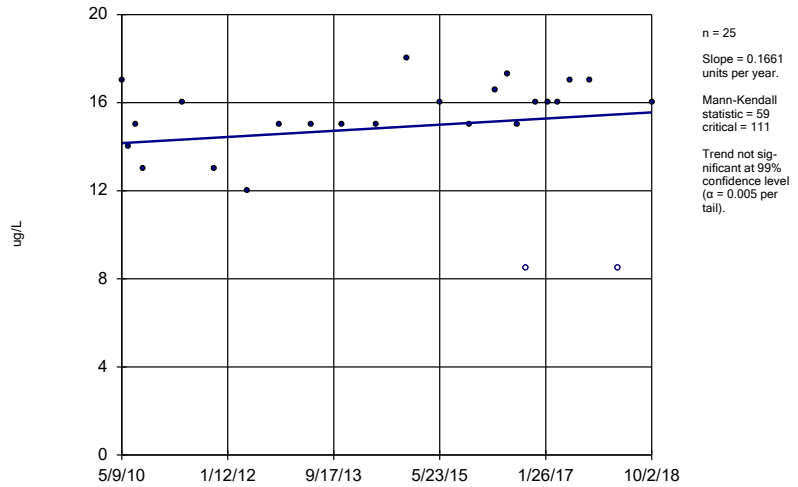
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



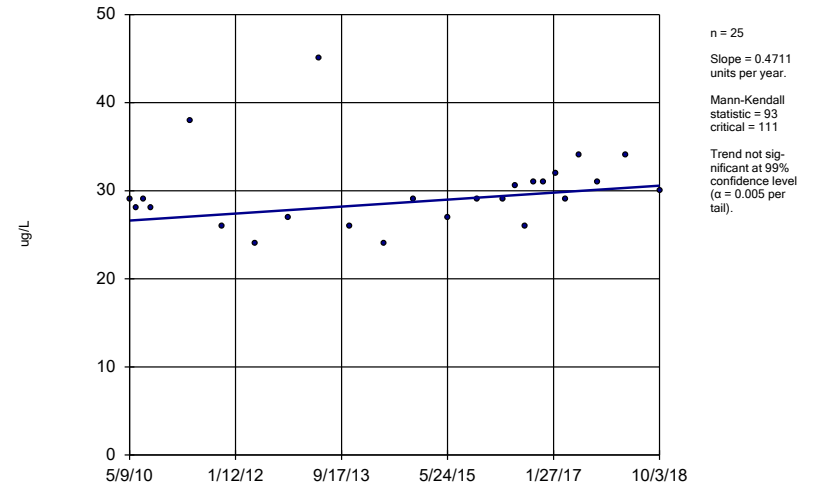
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



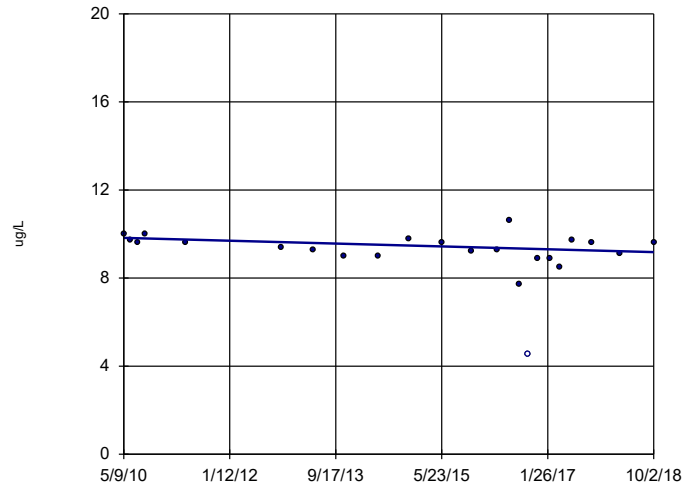
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13



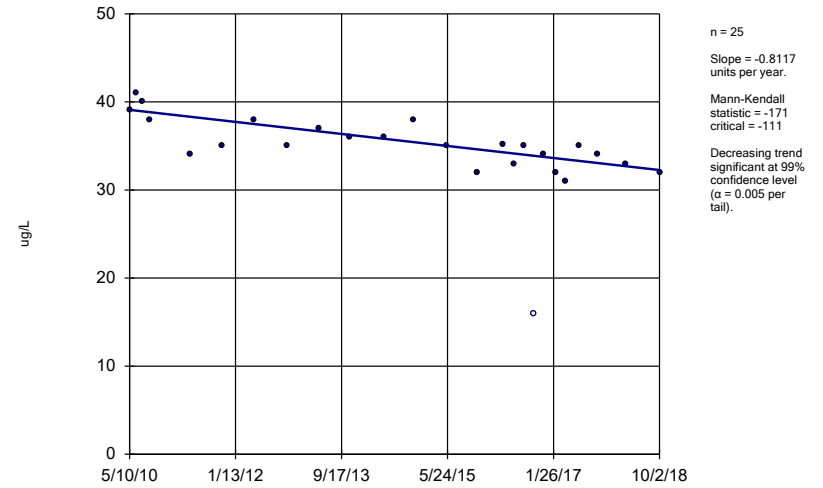
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-14



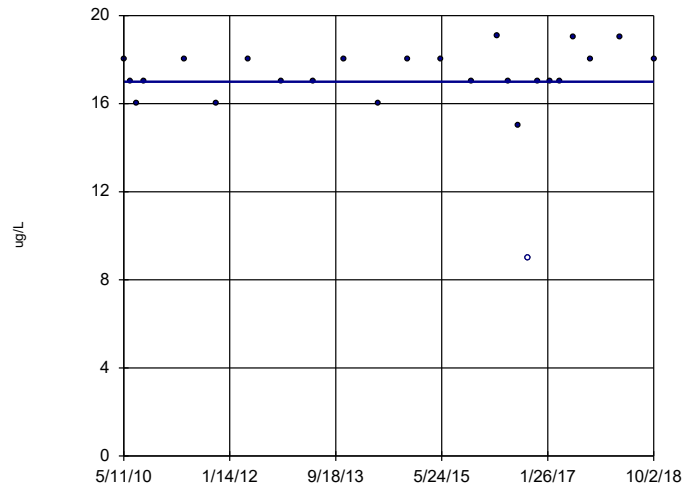
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-18



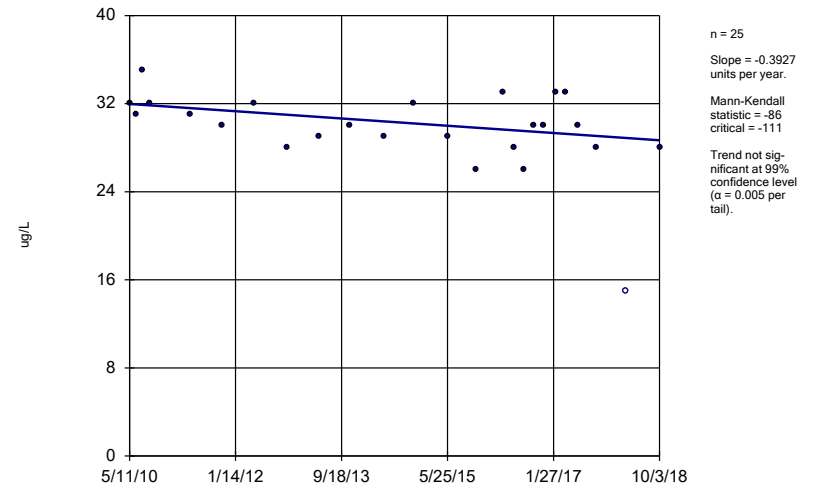
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-19



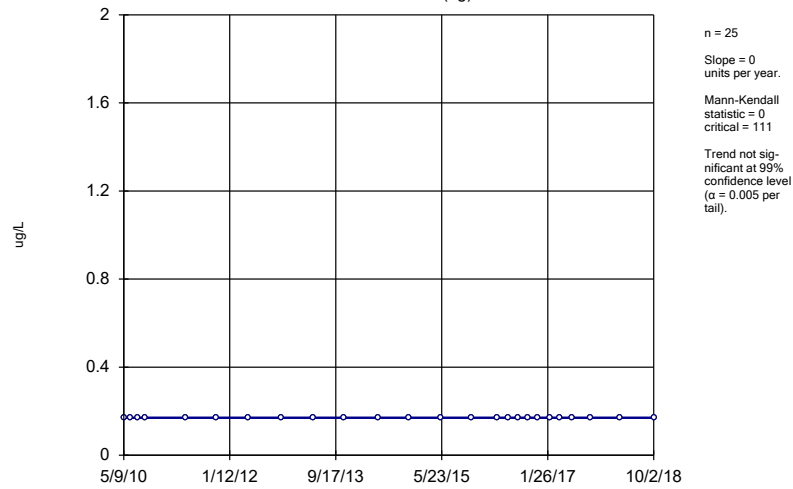
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-20



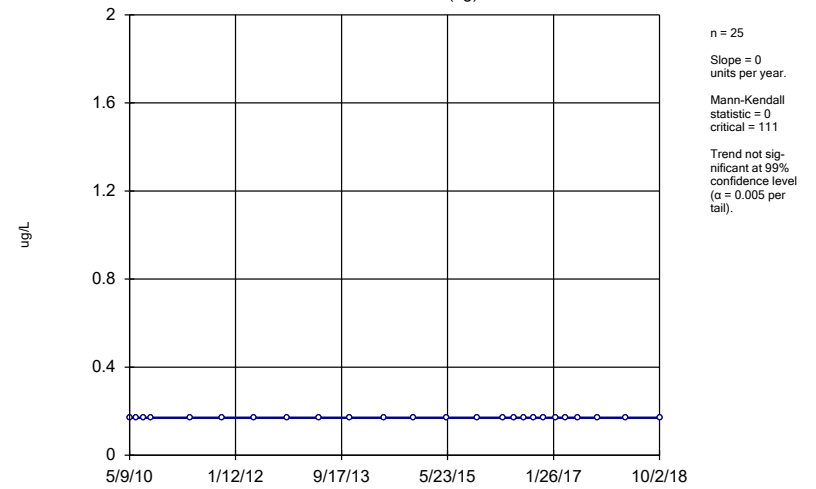
Constituent: Barium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-15 (bg)



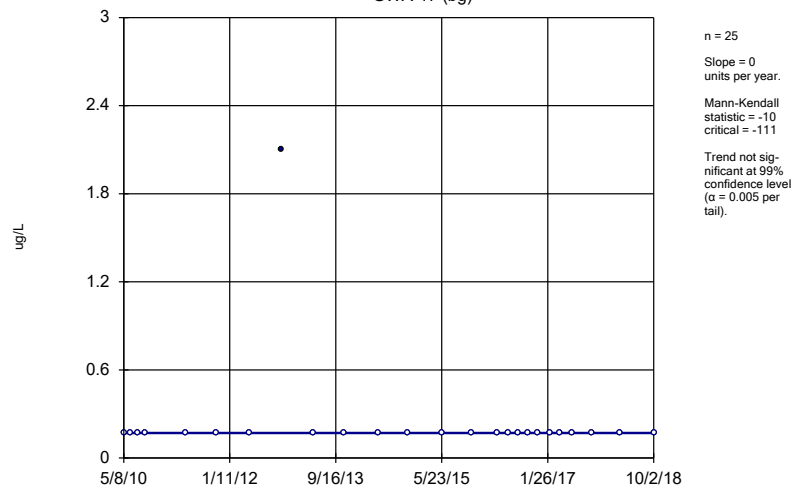
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-16 (bg)



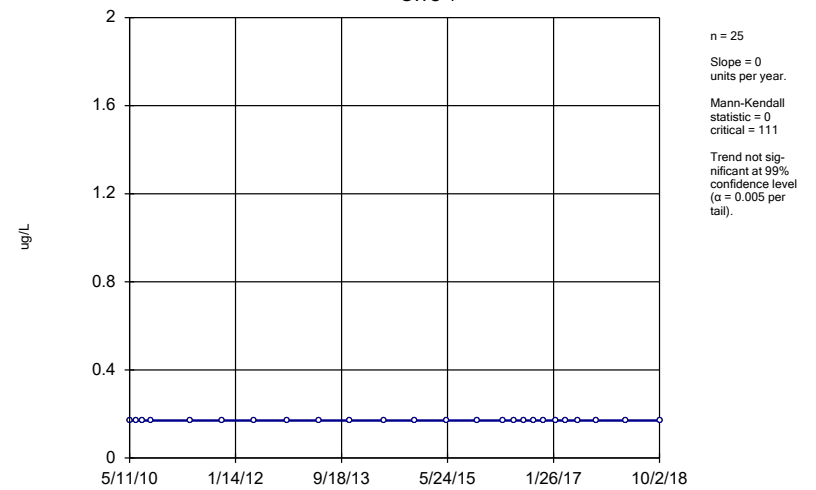
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-17 (bg)



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

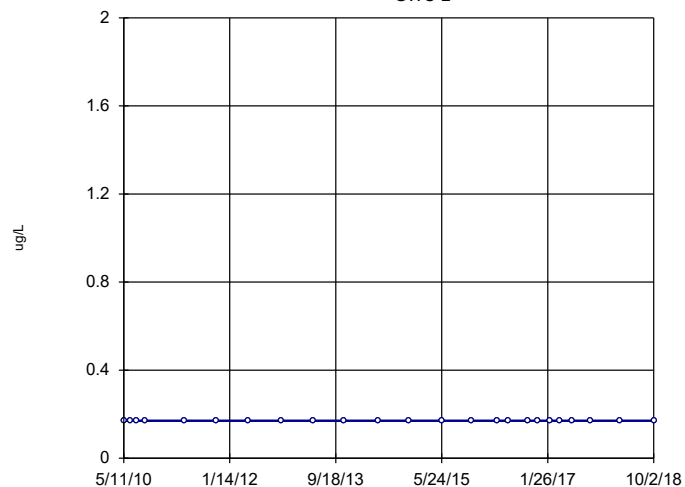
### Sen's Slope Estimator GWC-1



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

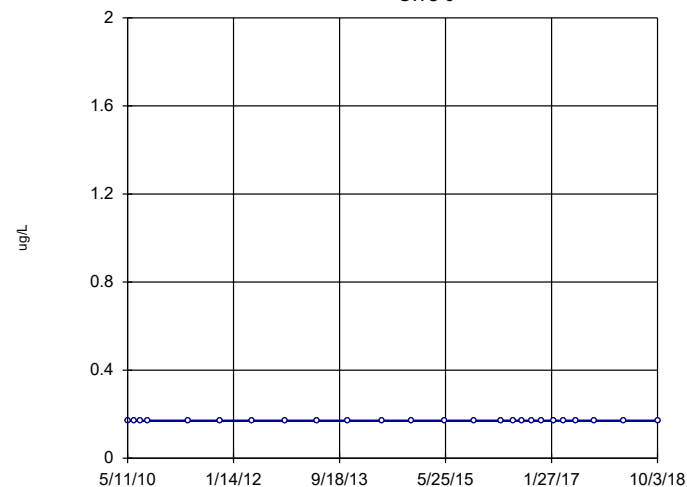


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 105  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

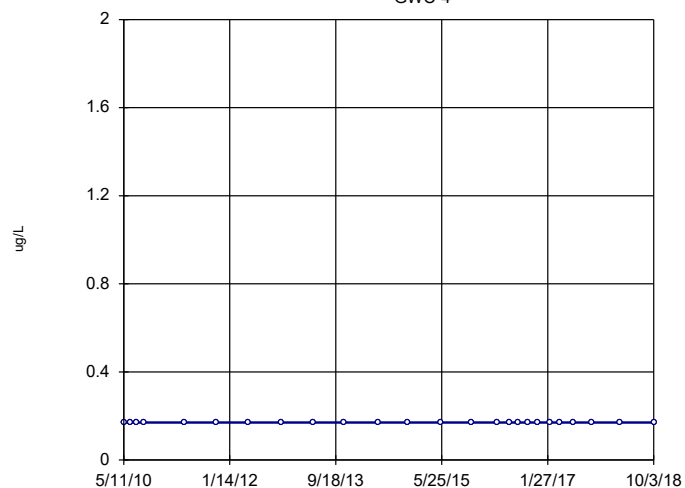


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

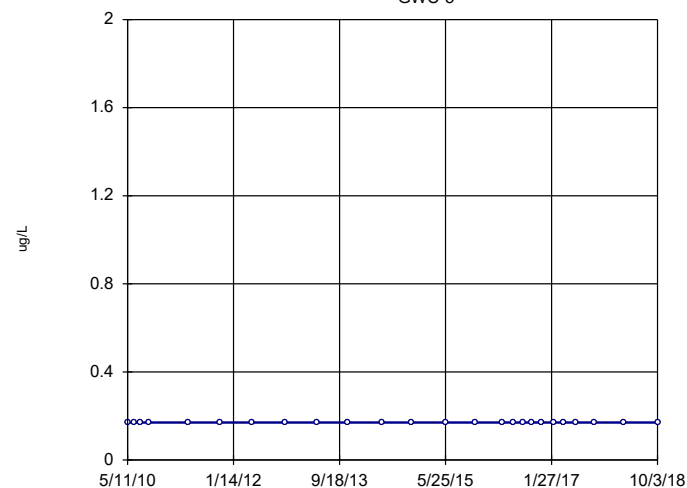


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

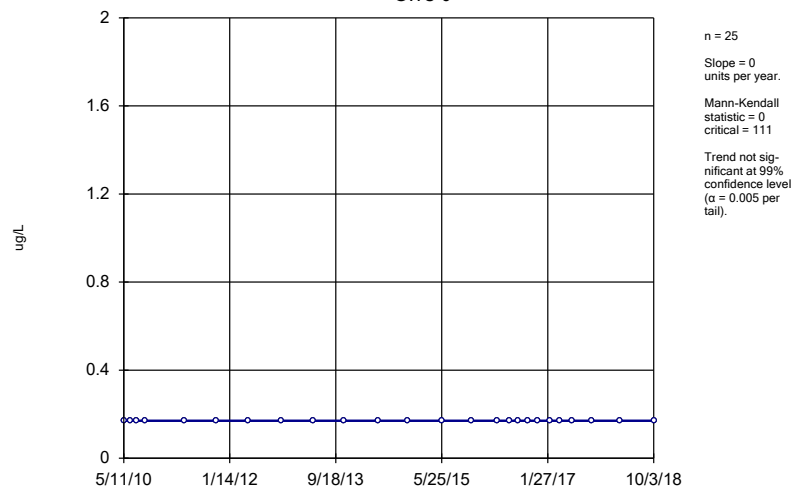


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

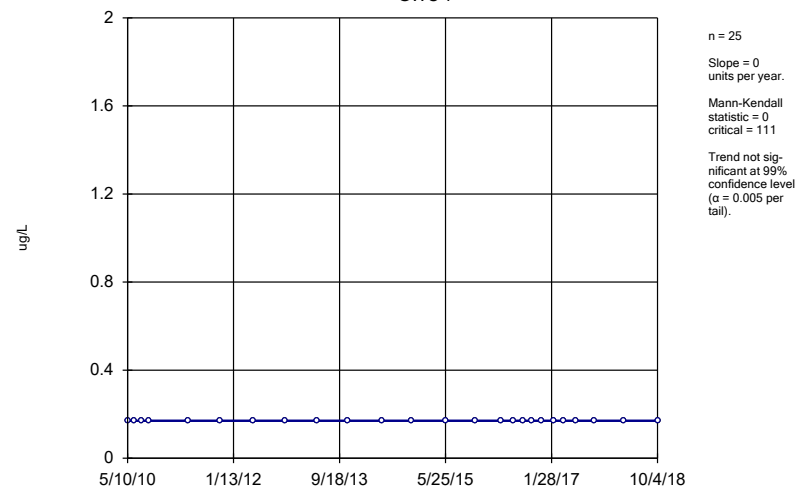
GWC-6



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

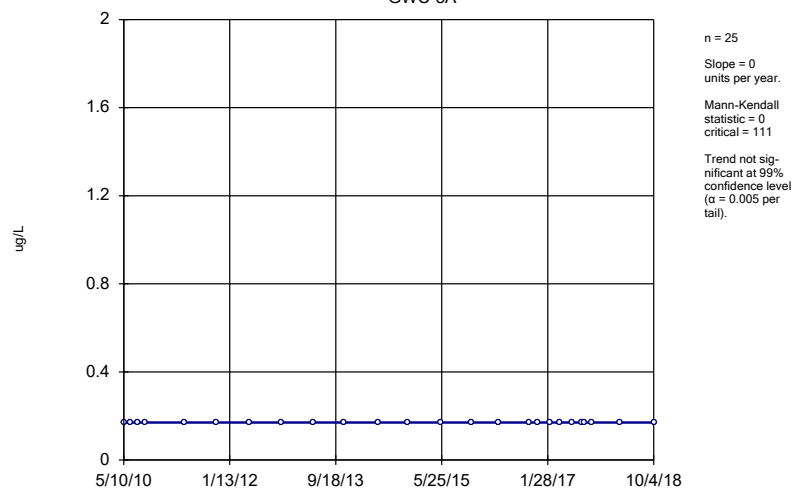
GWC-7



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

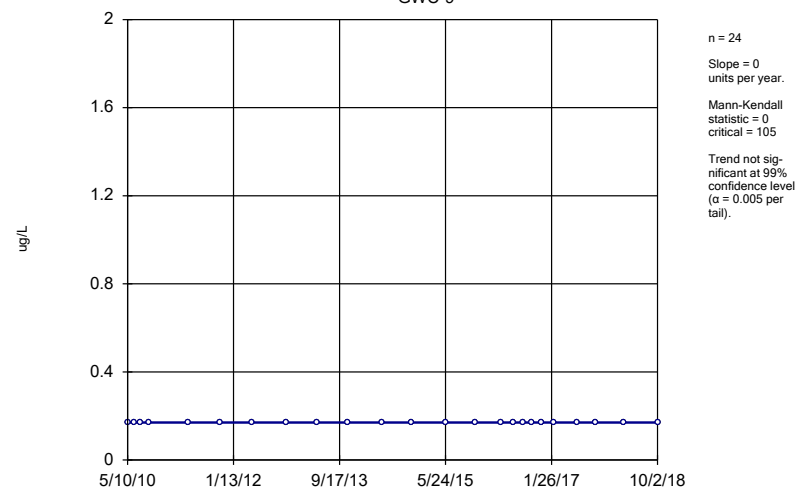
GWC-8A



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

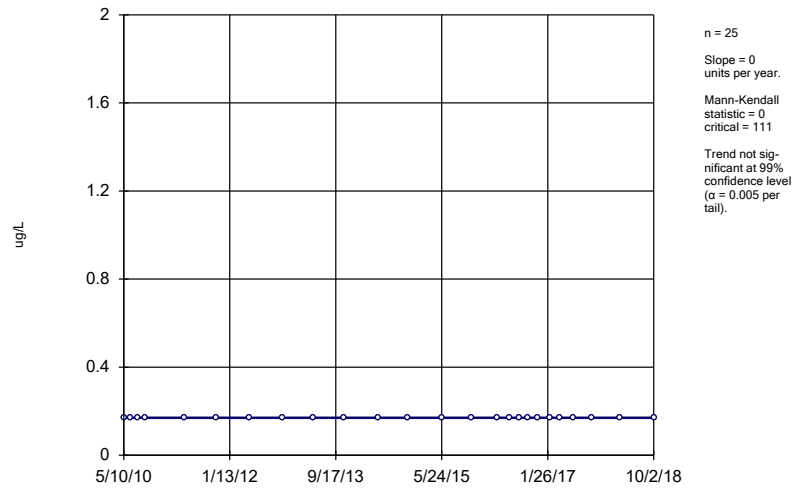
### Sen's Slope Estimator

GWC-9



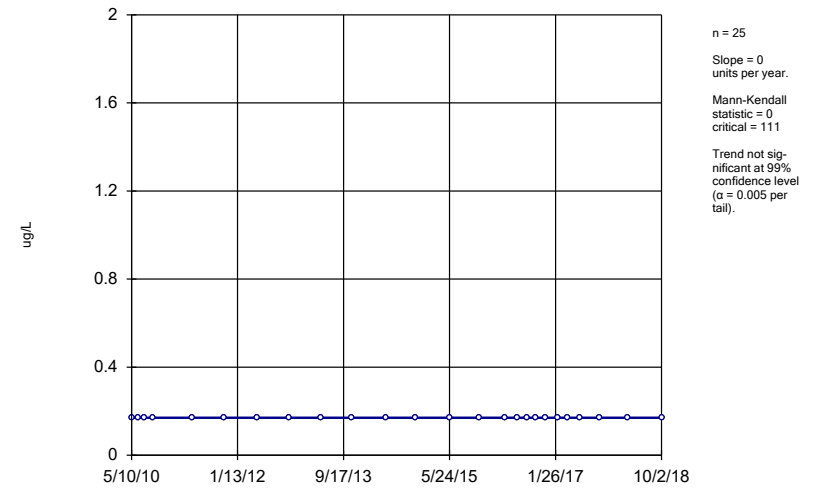
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



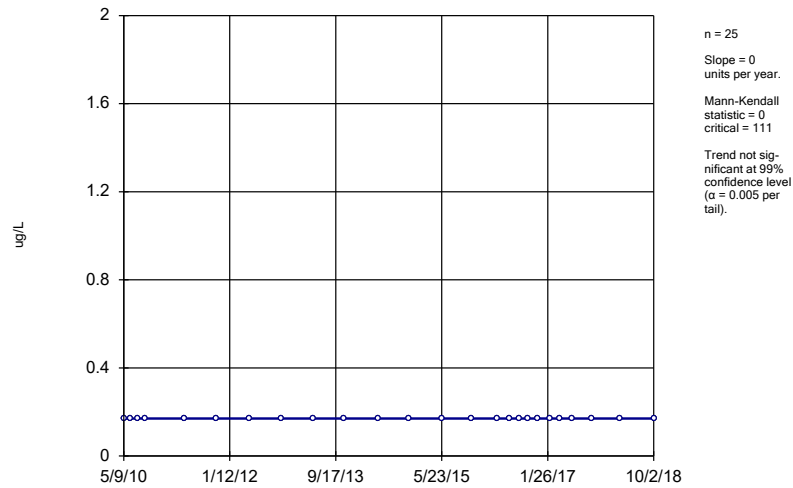
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



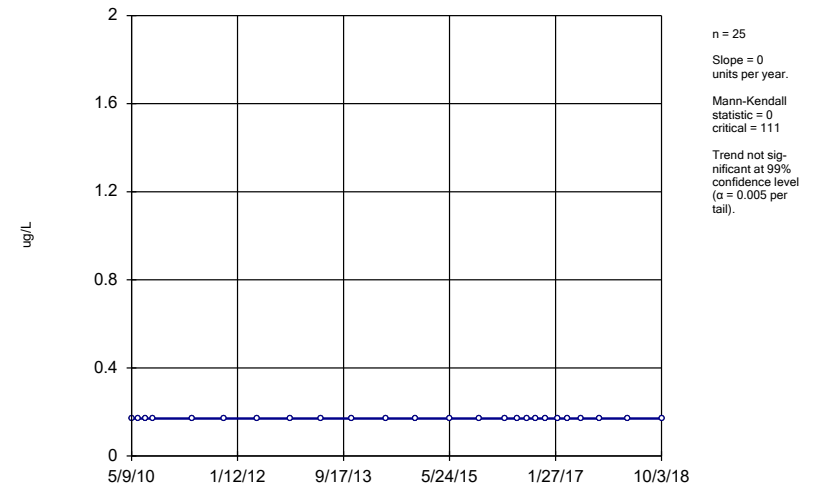
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



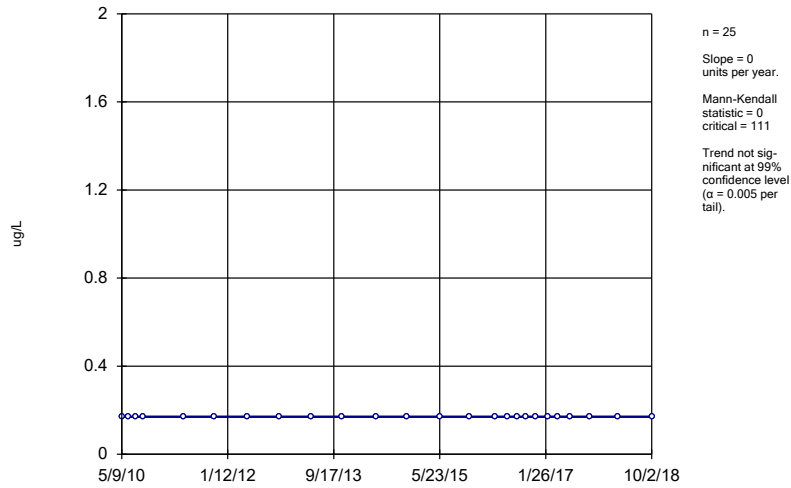
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-13



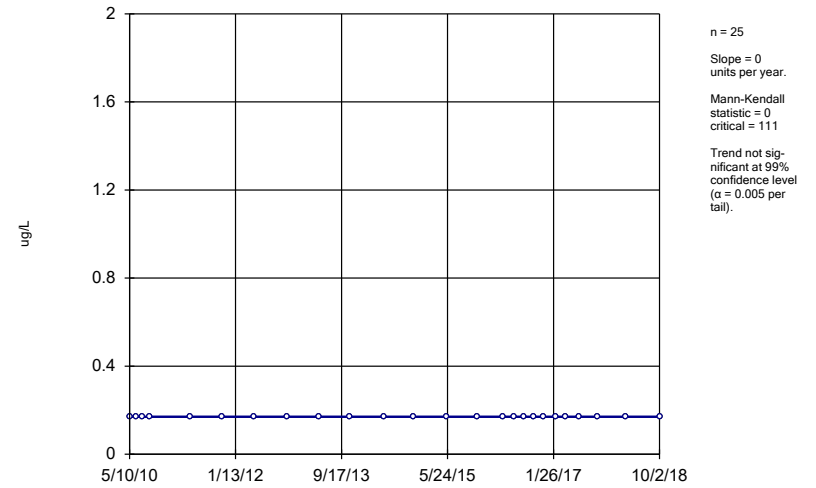
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



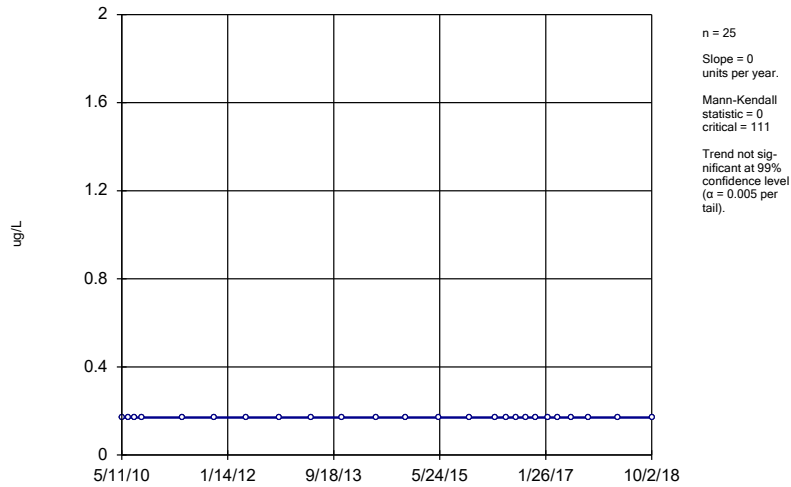
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



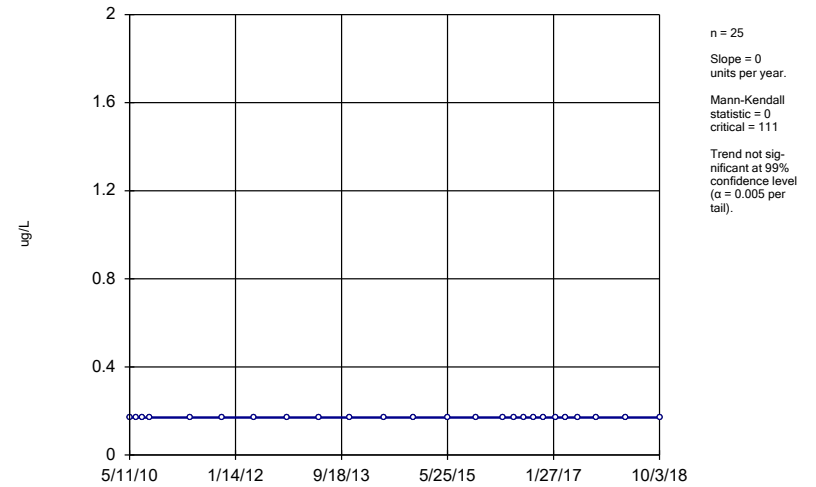
Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

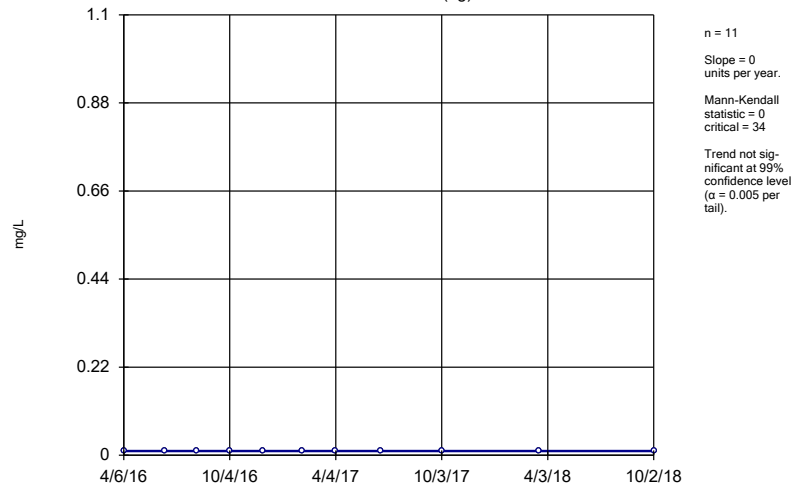
### Sen's Slope Estimator GWC-20



Constituent: Beryllium, Total Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

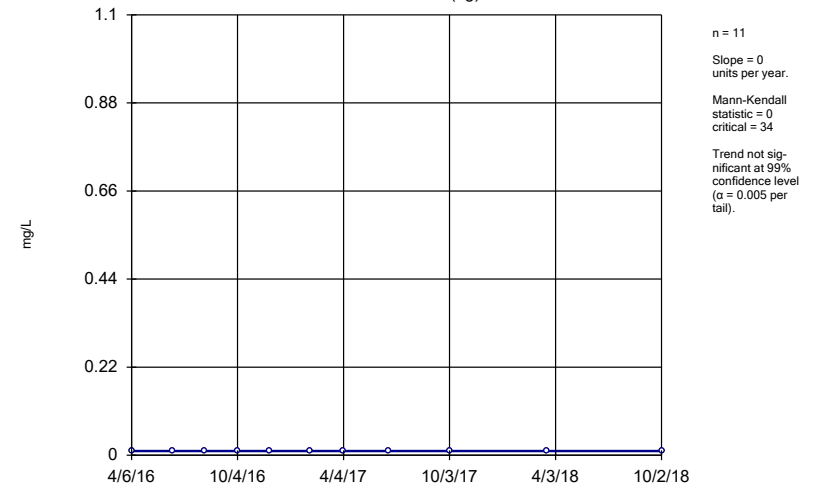


Sen's Slope Estimator  
GWA-15 (bg)



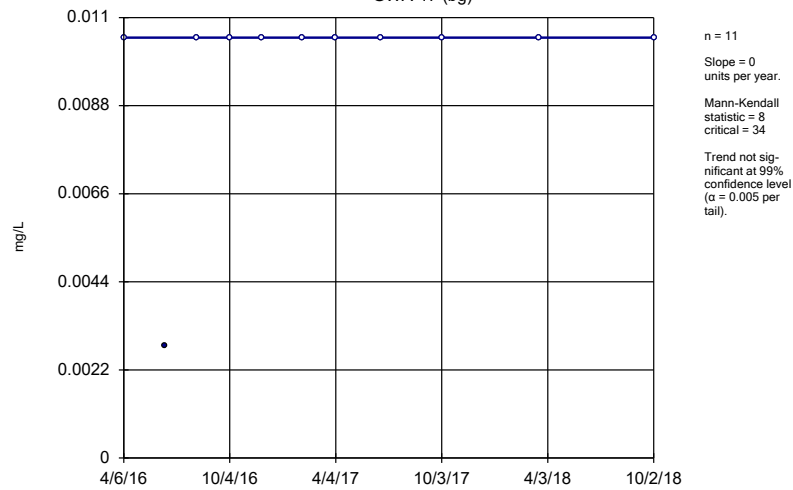
Constituent: Boron Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-16 (bg)



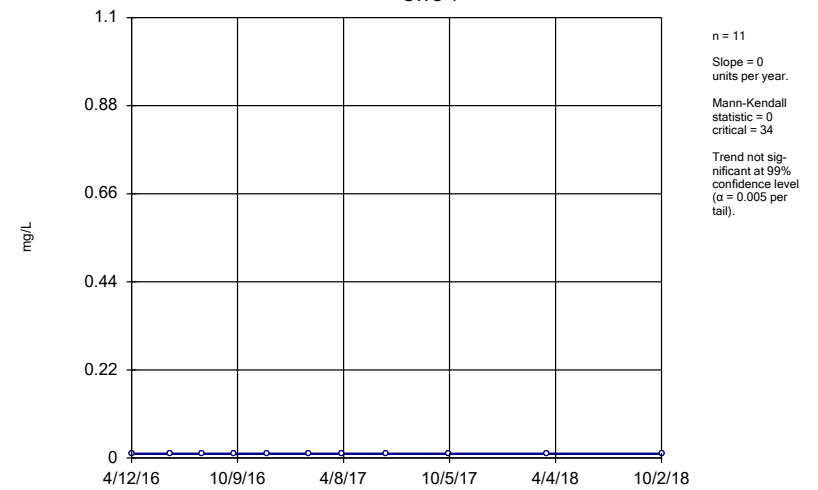
Constituent: Boron Analysis Run 4/23/2019 4:16 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-17 (bg)



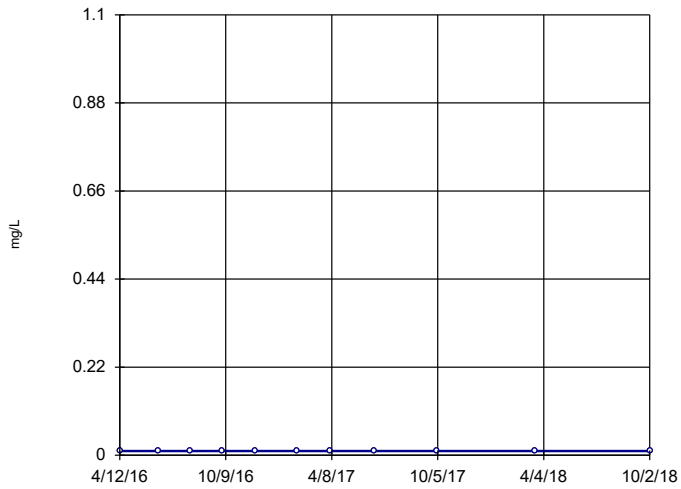
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-1



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

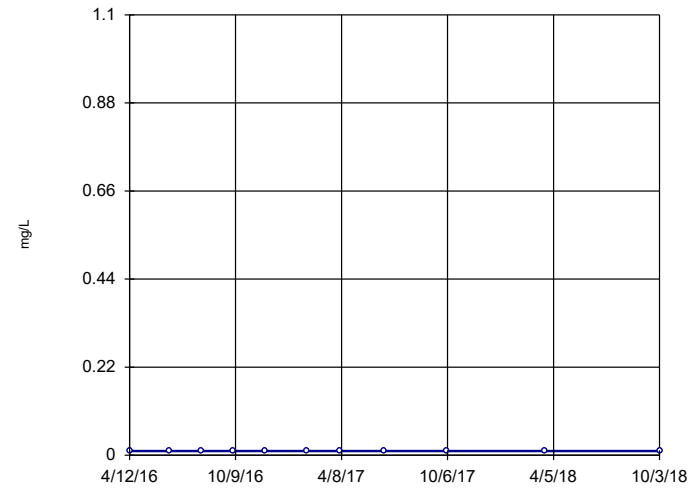
Sen's Slope Estimator  
GWC-2



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

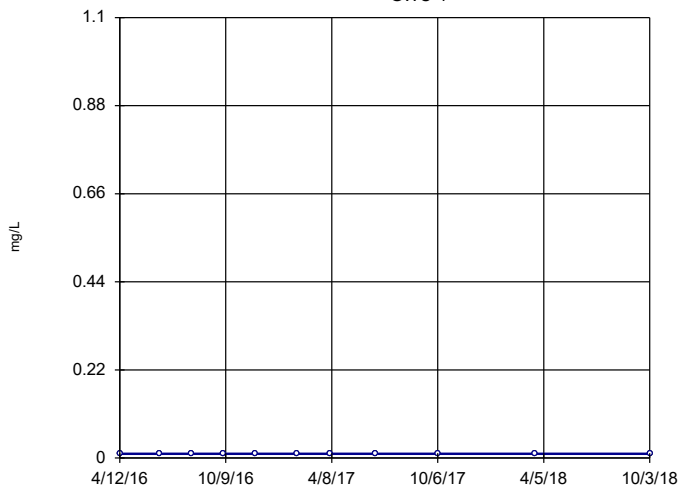
Sen's Slope Estimator  
GWC-3



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

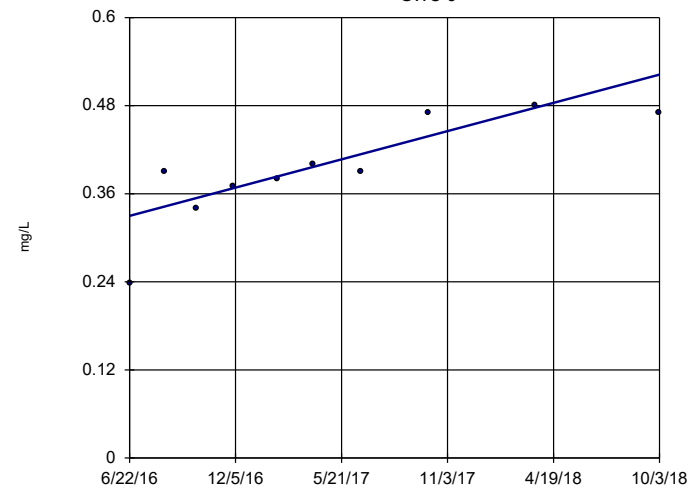
Sen's Slope Estimator  
GWC-4



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

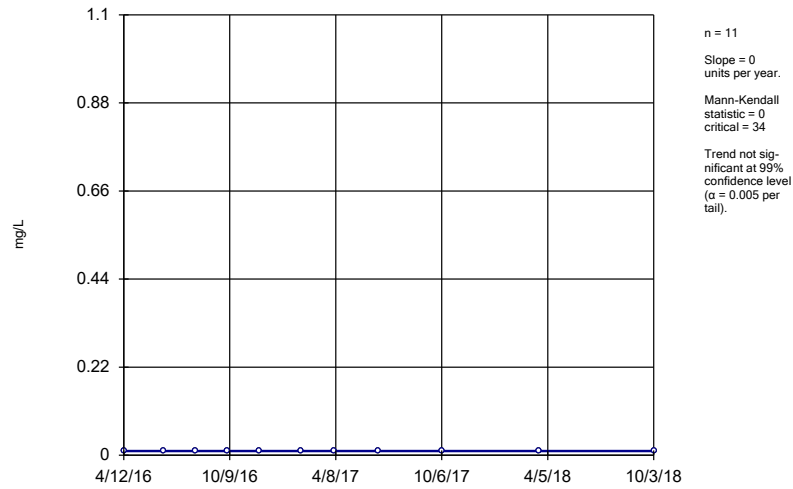
Sen's Slope Estimator  
GWC-5



n = 10  
Slope = 0.08435  
units per year.  
Mann-Kendall  
statistic = 33  
critical = 30  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

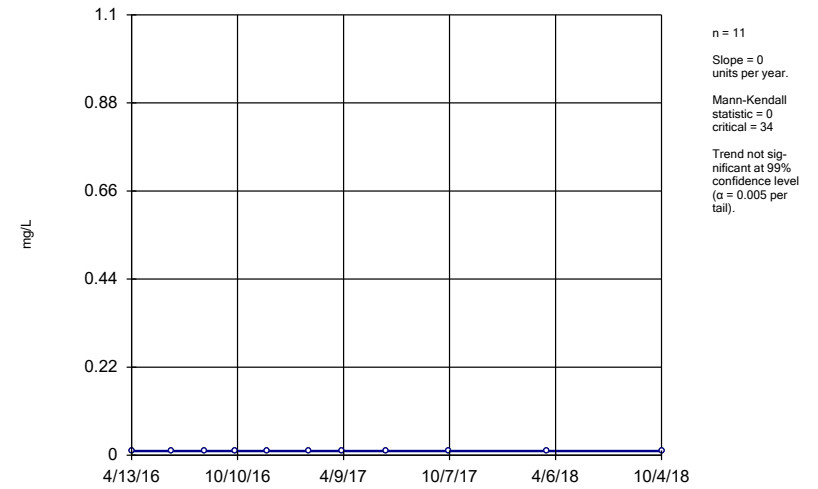
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-6



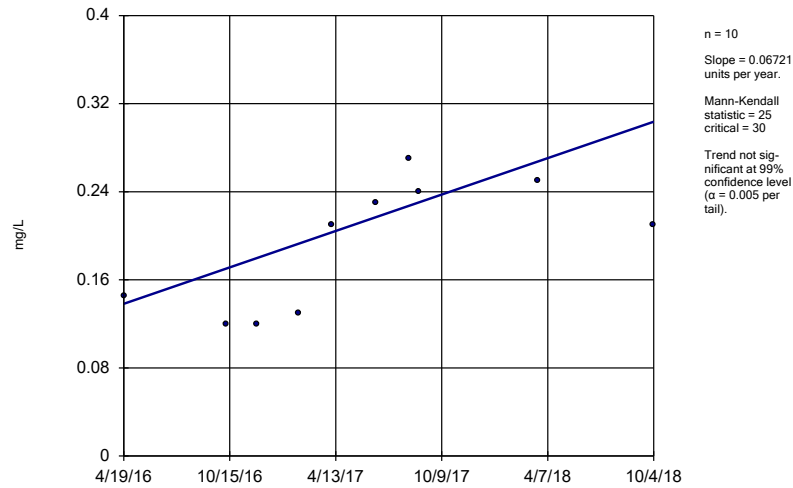
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-7



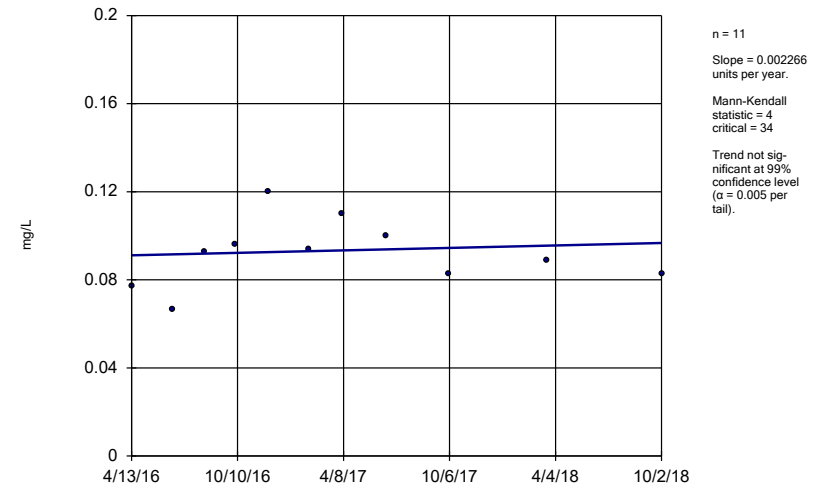
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-8A



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

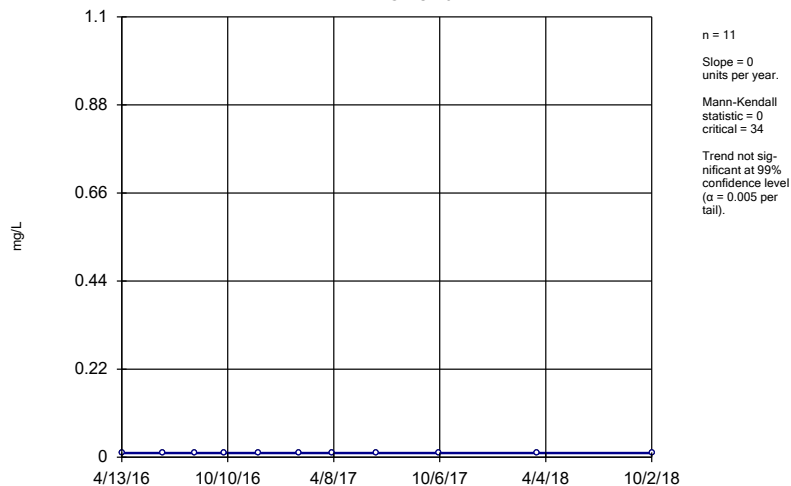
### Sen's Slope Estimator GWC-9



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

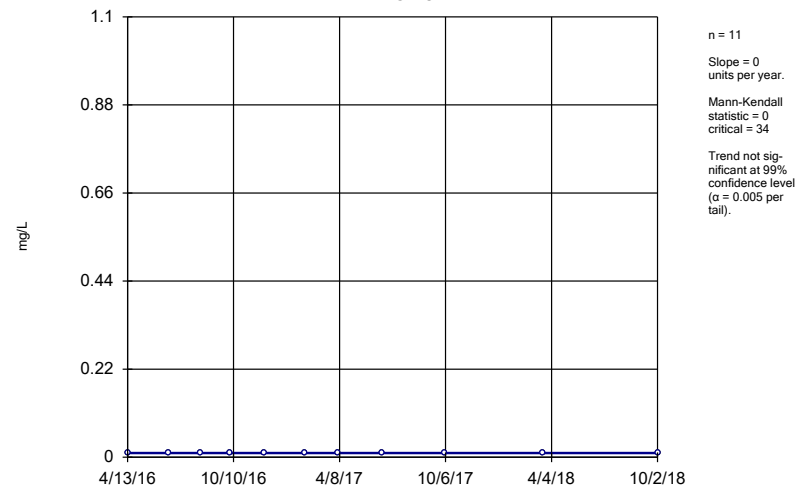
GWC-10



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

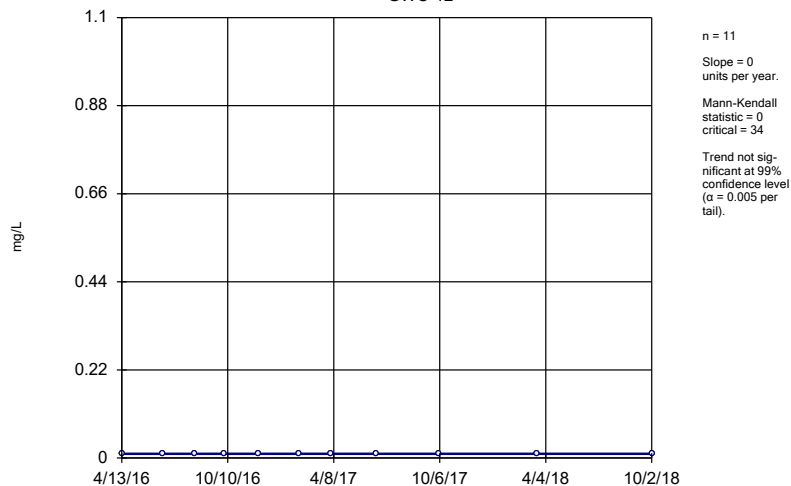
GWC-11



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

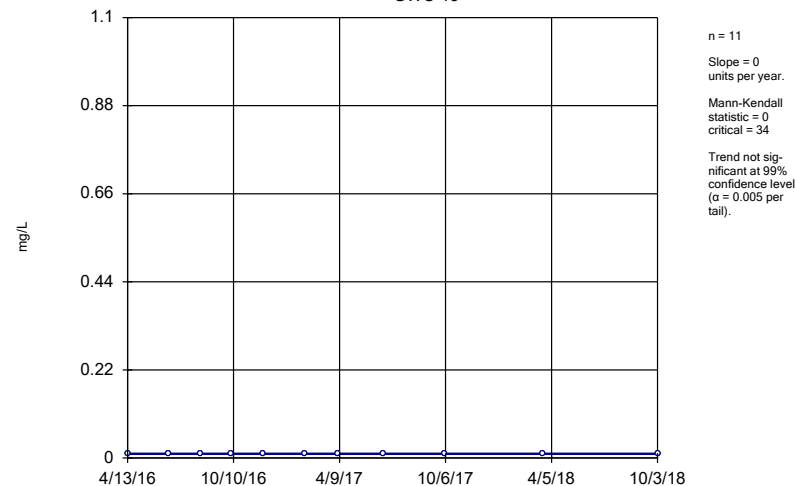
GWC-12



Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

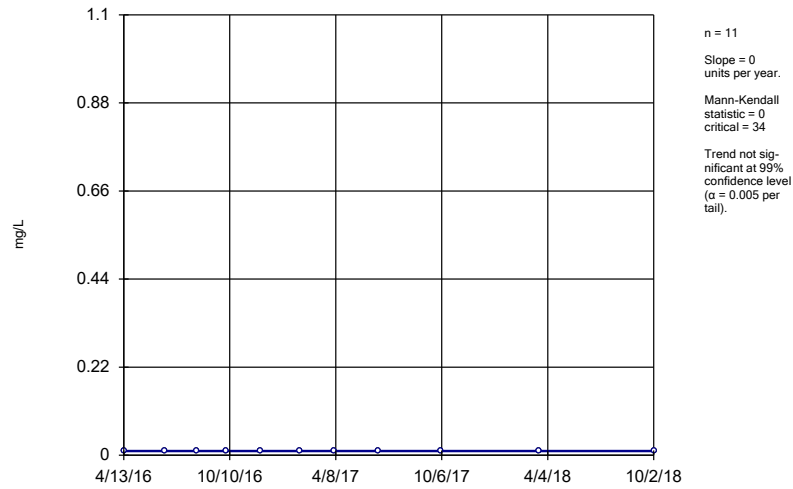
### Sen's Slope Estimator

GWC-13



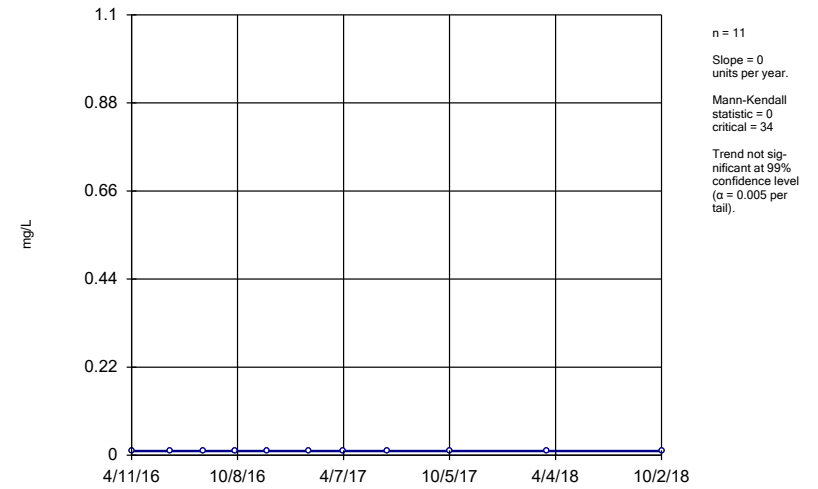
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



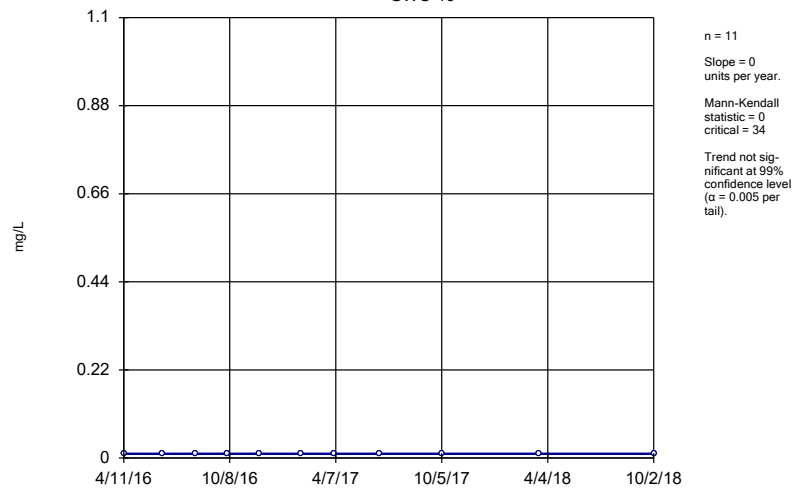
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



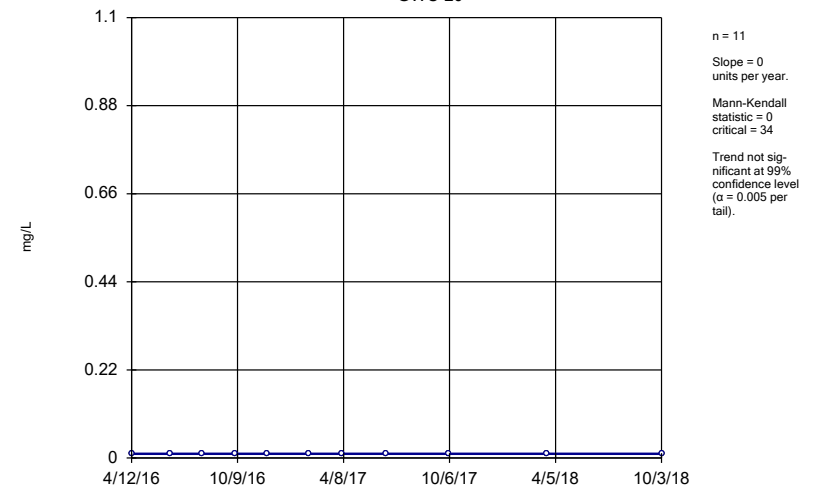
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



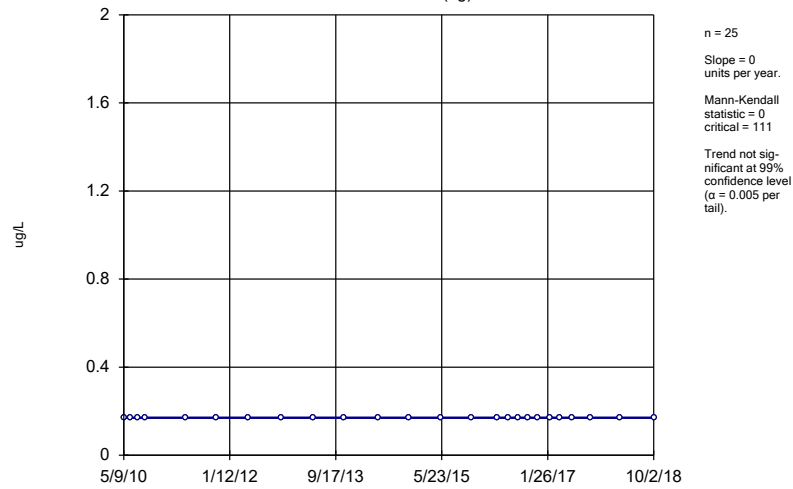
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-20



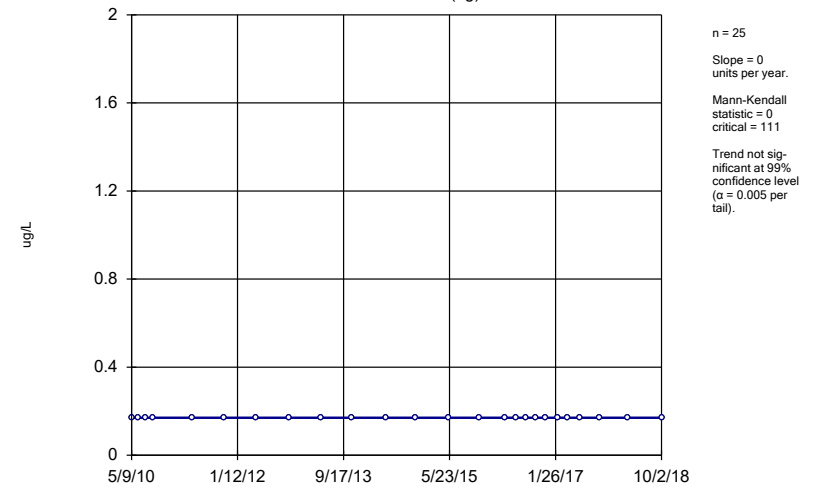
Constituent: Boron Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-15 (bg)



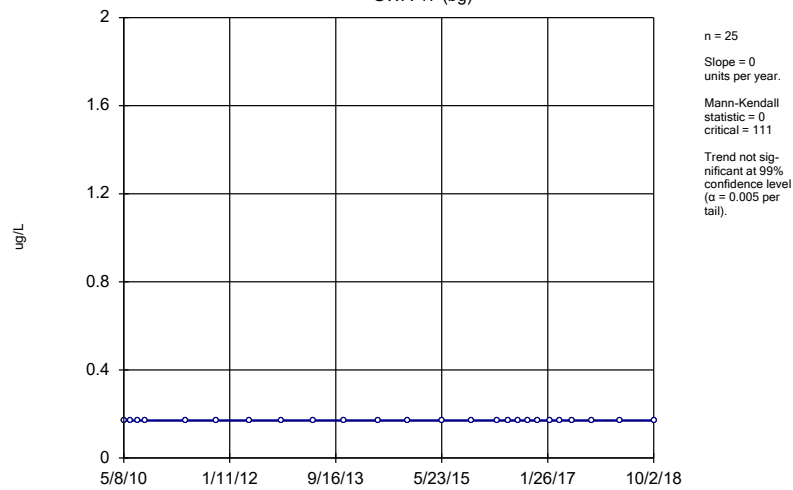
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-16 (bg)



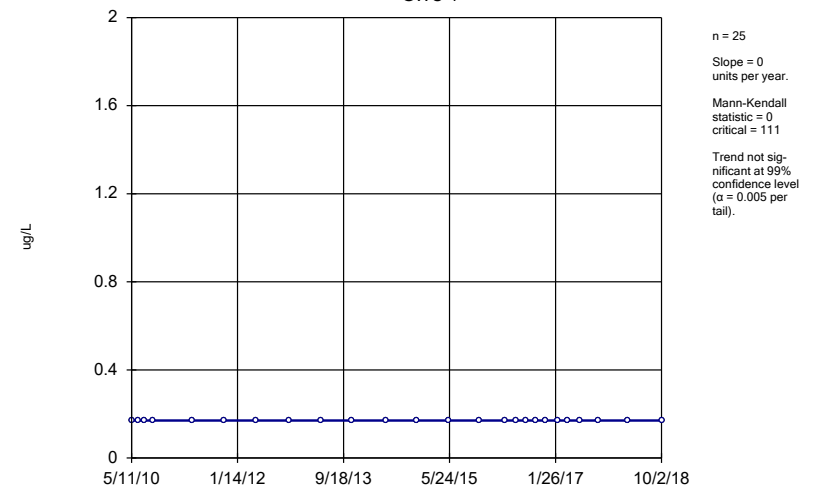
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWA-17 (bg)



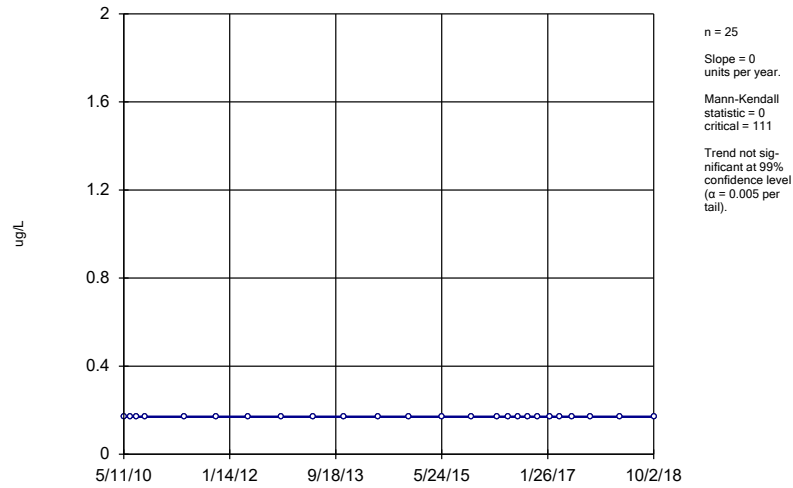
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-1



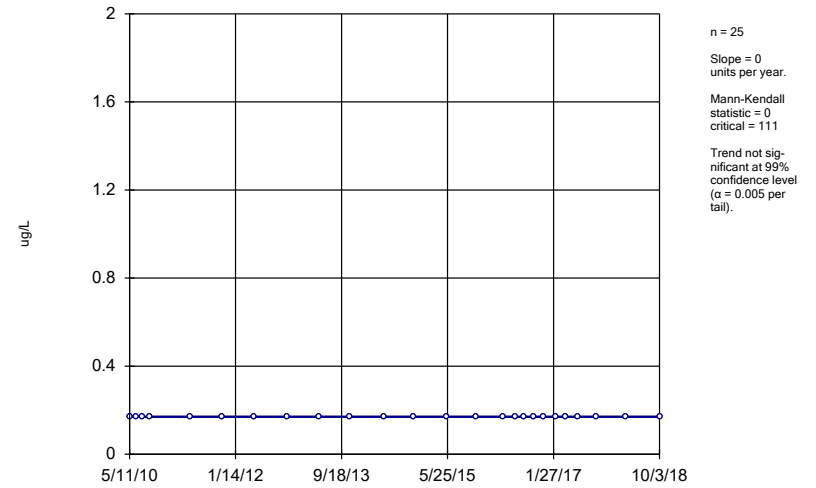
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-2



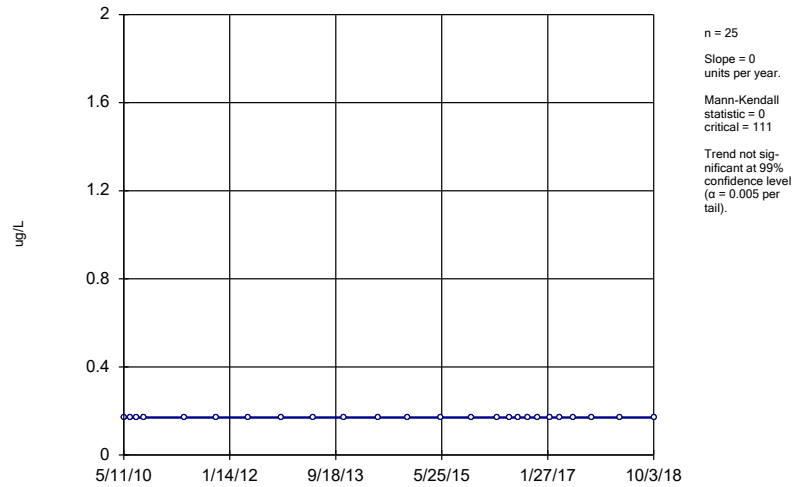
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-3



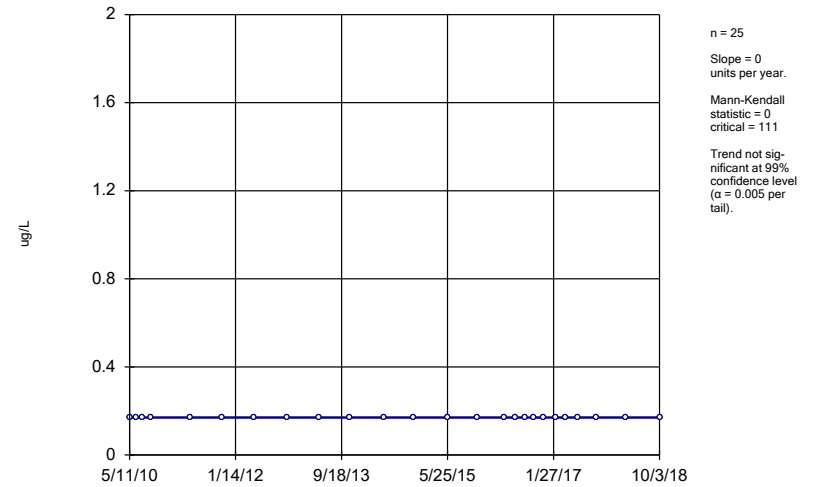
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-4



Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

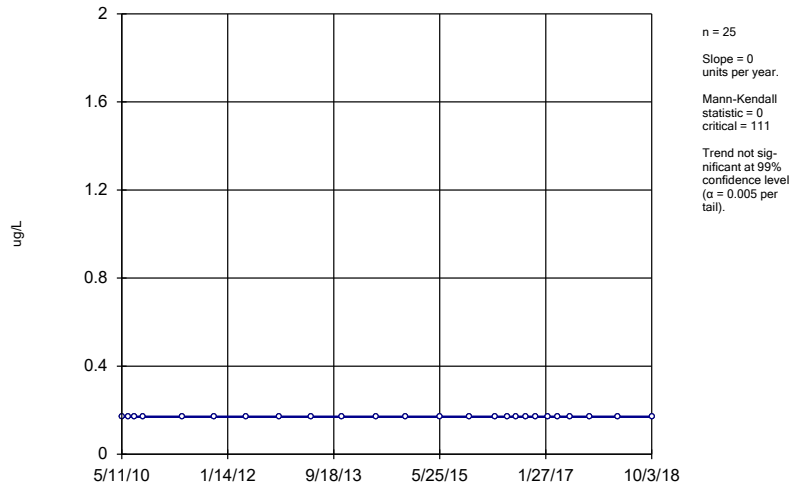
### Sen's Slope Estimator GWC-5



Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

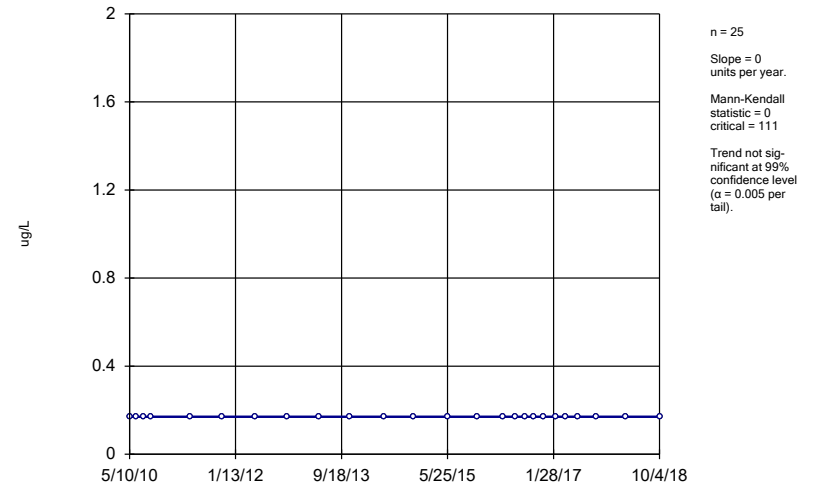


Sen's Slope Estimator  
GWC-6



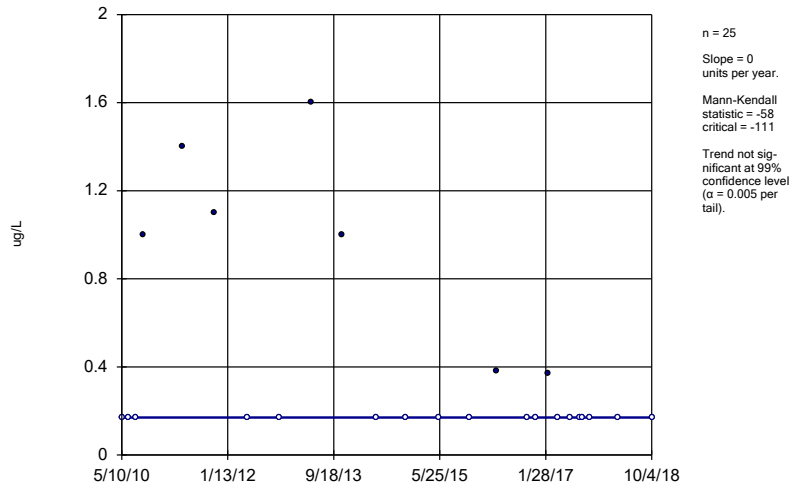
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-7



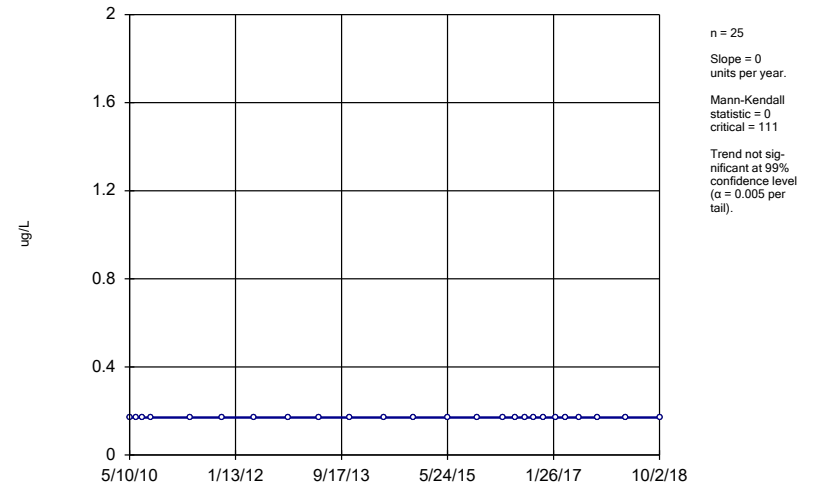
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-8A



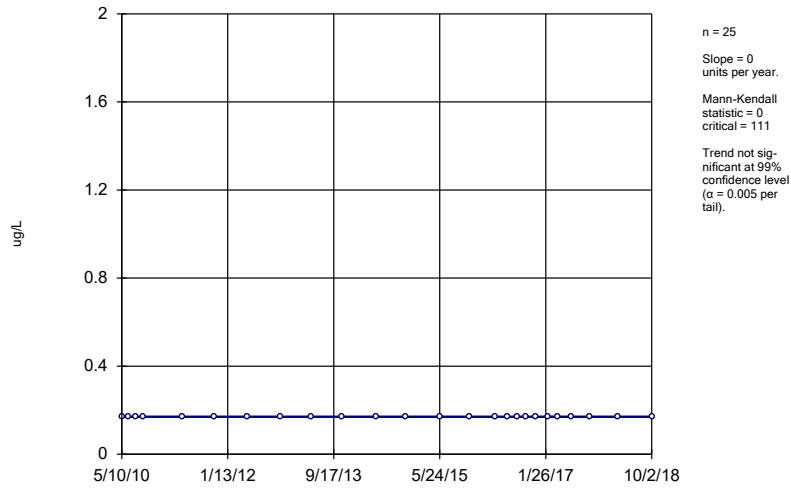
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-9



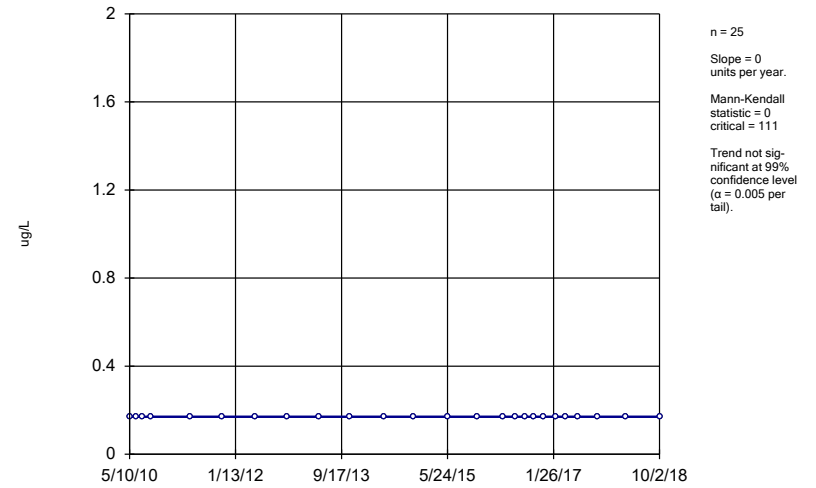
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



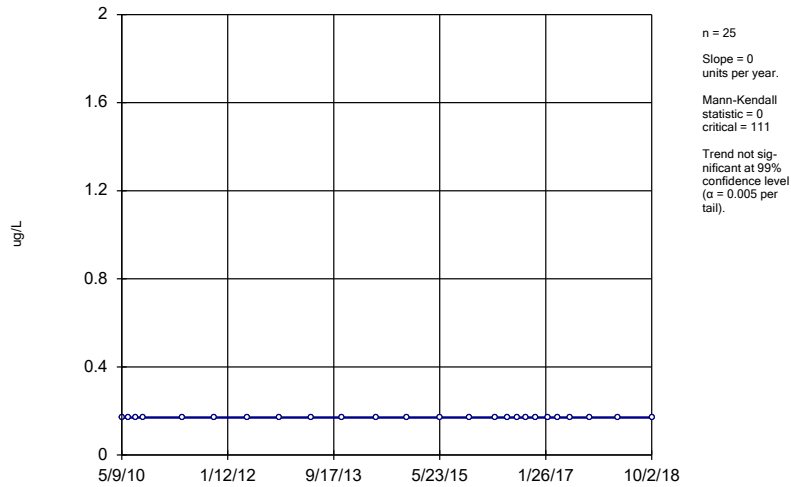
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



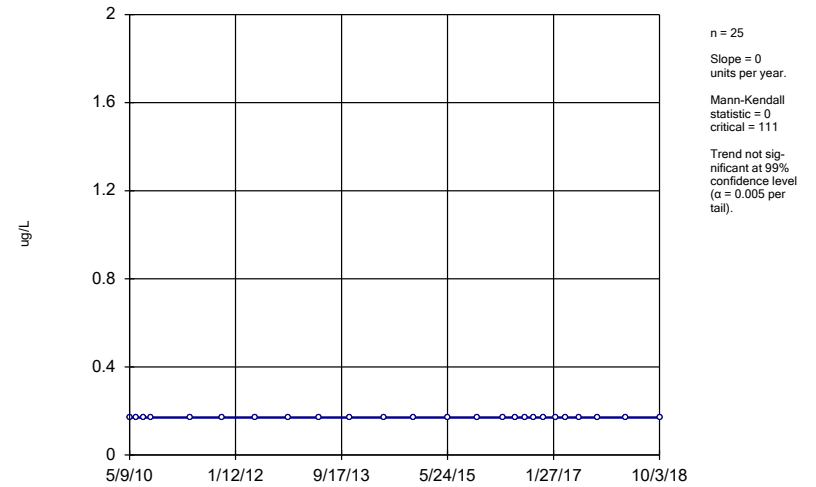
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



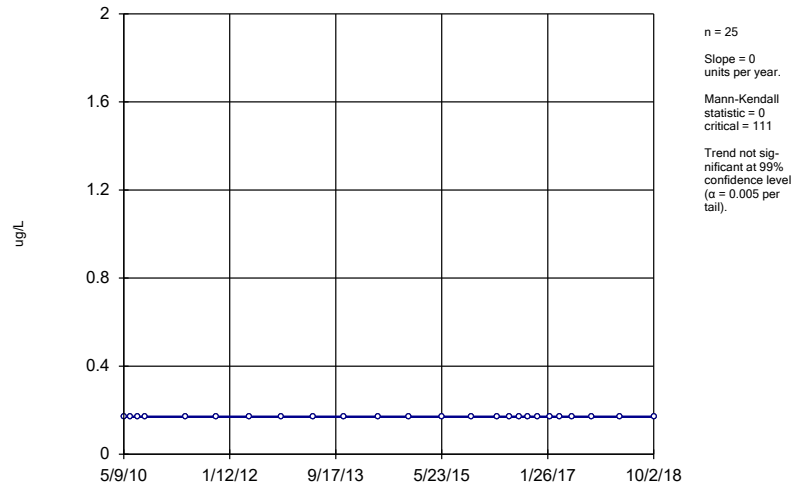
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-13



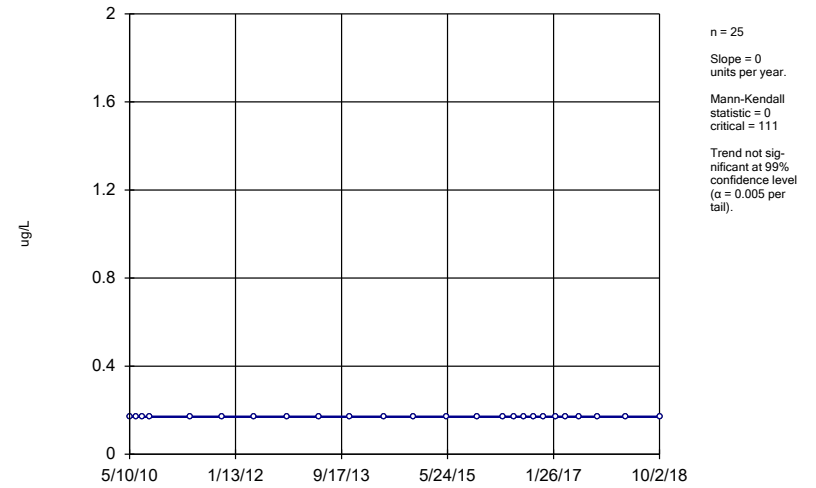
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



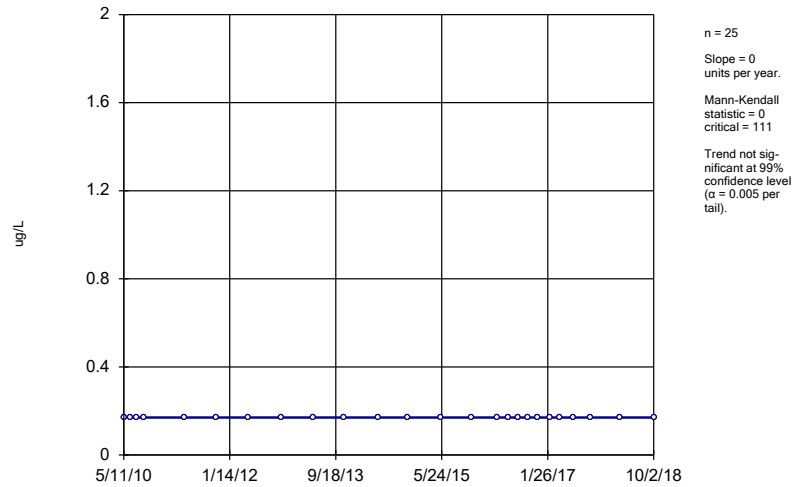
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



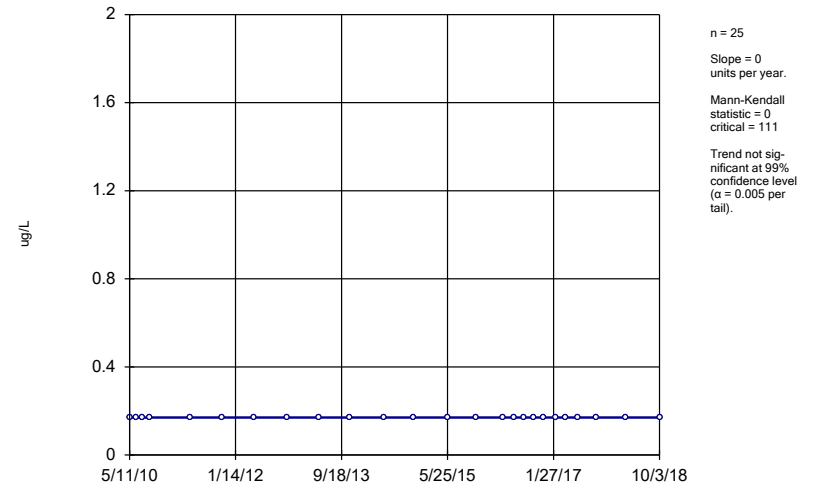
Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

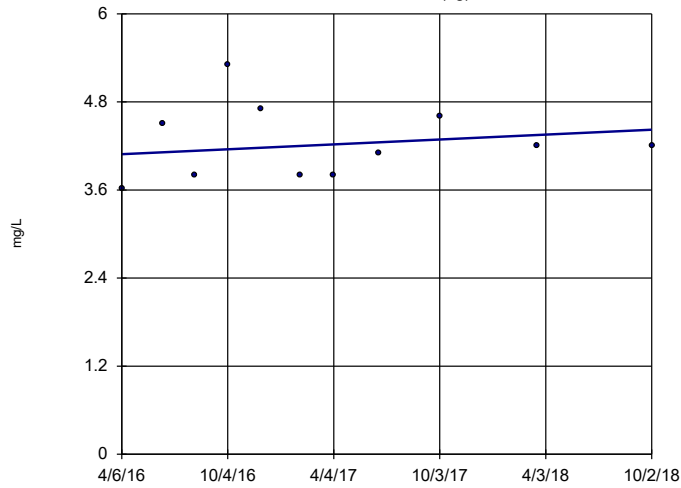
### Sen's Slope Estimator GWC-20



Constituent: Cadmium, Total Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

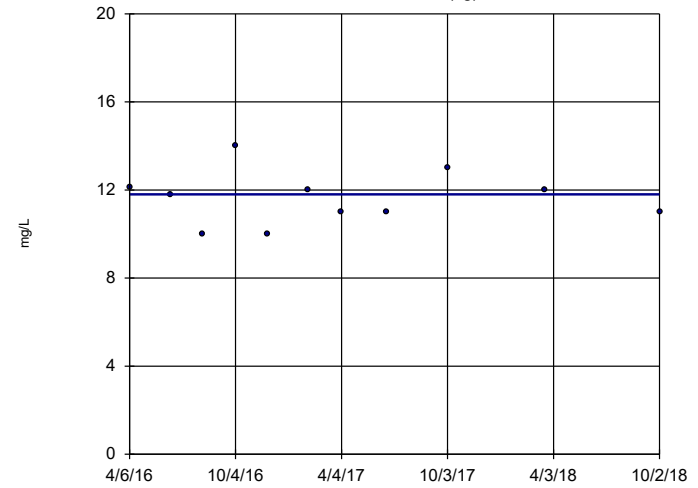


n = 11  
 Slope = 0.1337  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

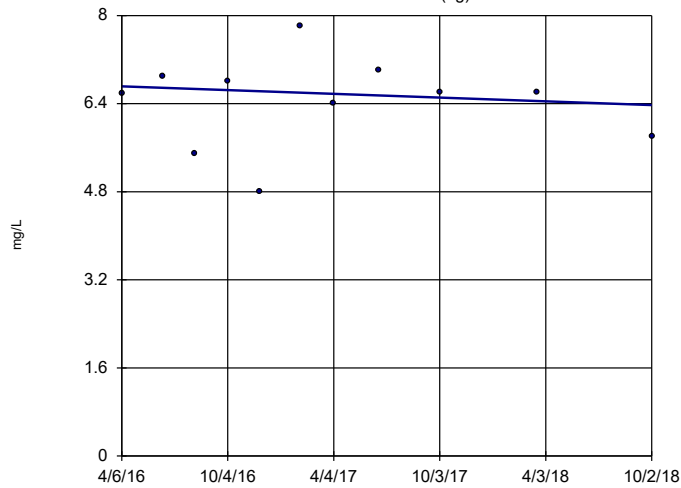


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -2  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

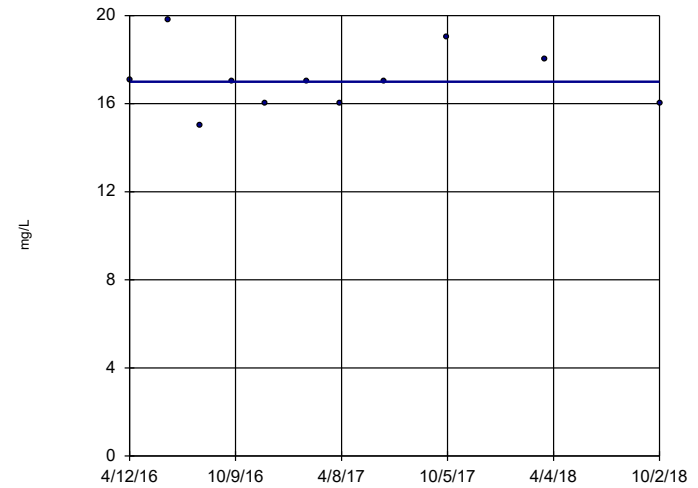


n = 11  
 Slope = -0.1375  
 units per year.  
 Mann-Kendall  
 statistic = -2  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

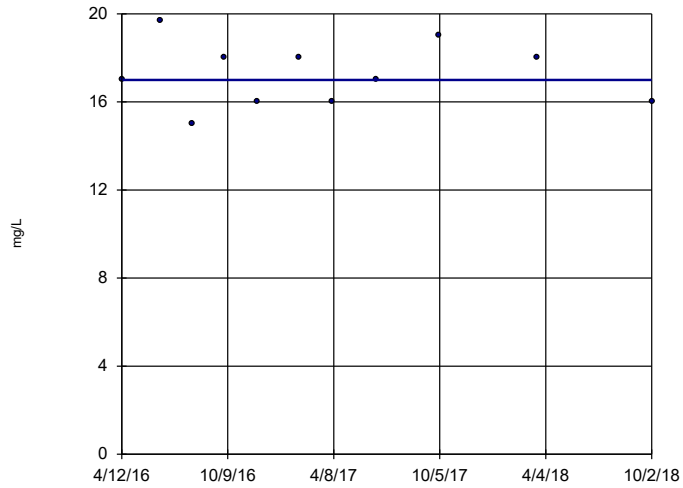


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

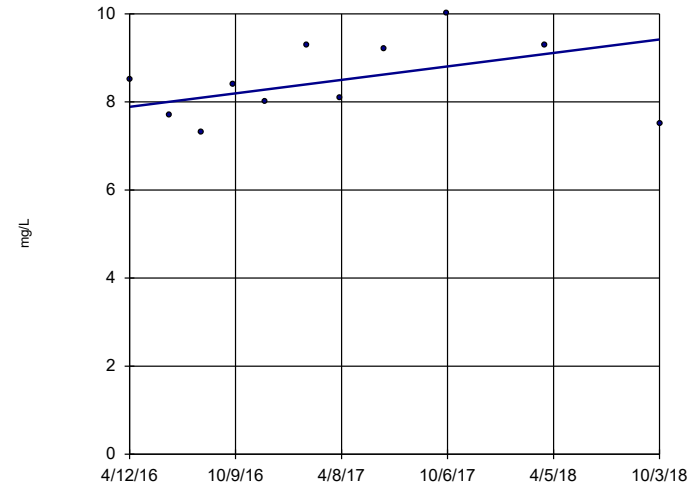


n = 11  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 0  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

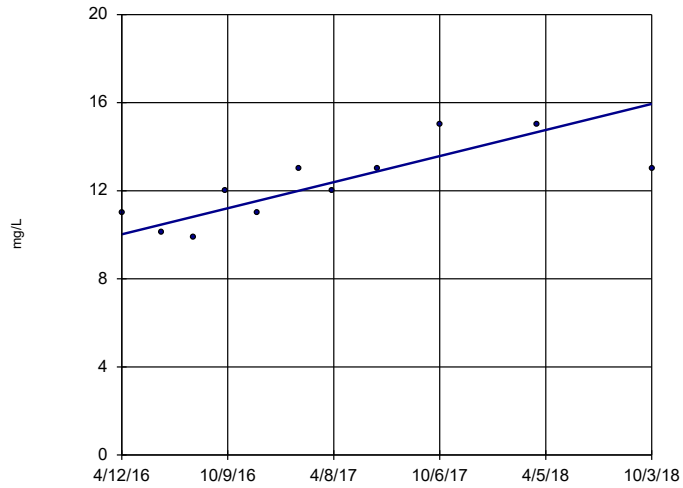


n = 11  
 Slope = 0.6175 units per year.  
 Mann-Kendall statistic = 14  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

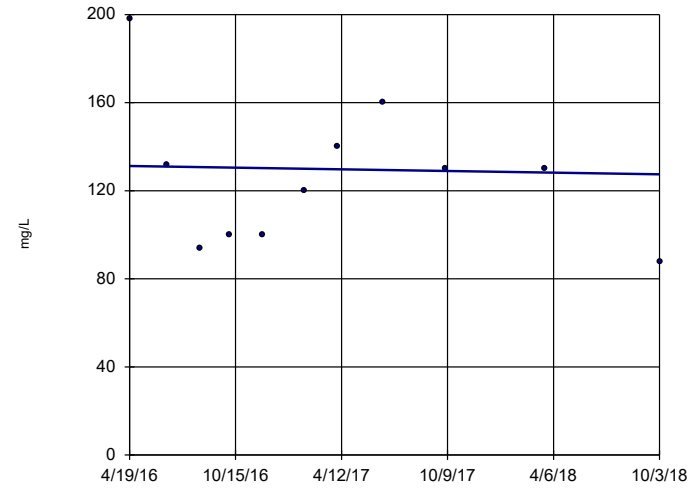


n = 11  
 Slope = 2.391 units per year.  
 Mann-Kendall statistic = 35  
 critical = 34  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

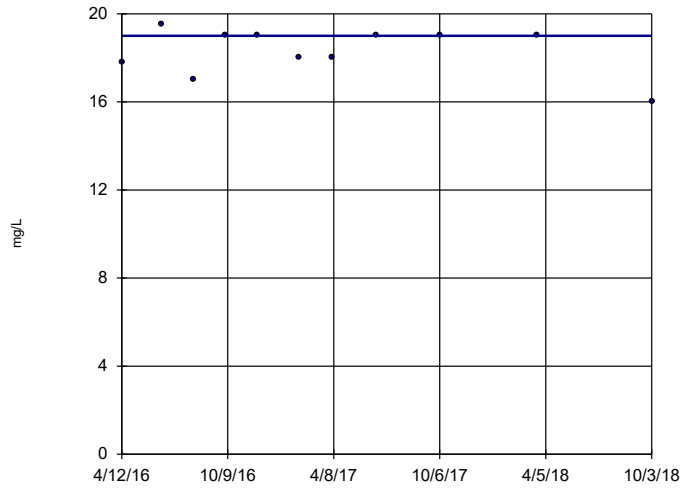


n = 11  
 Slope = -1.553 units per year.  
 Mann-Kendall statistic = -5  
 critical = -34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-6

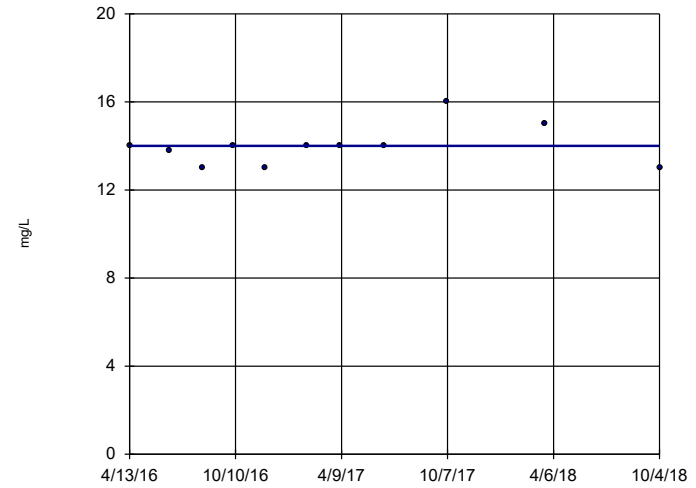


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -2  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-7

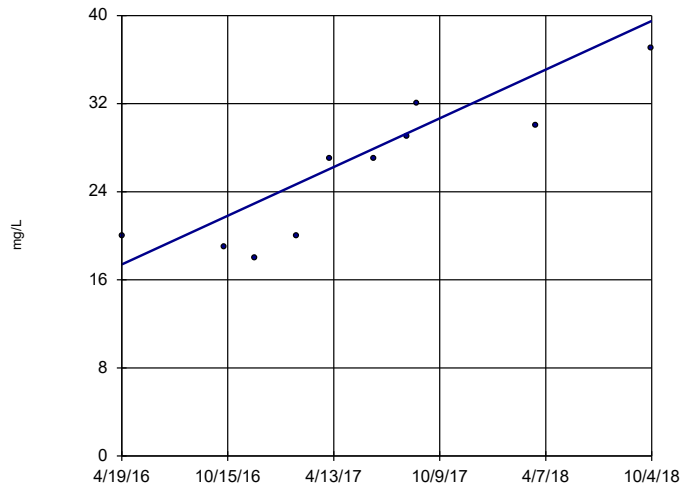


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 12  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-8A

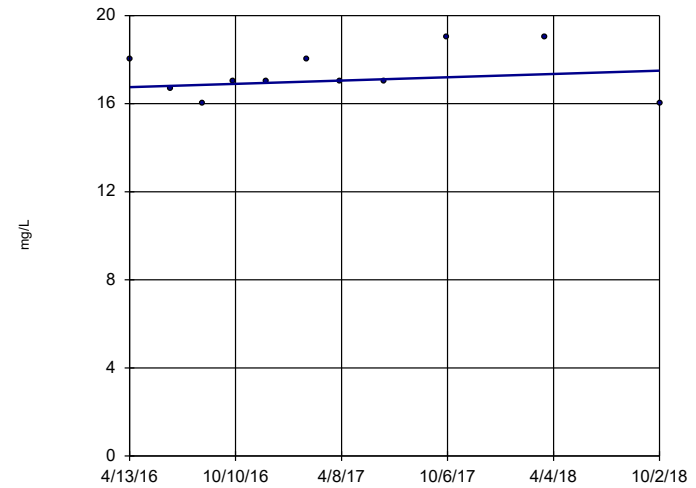


n = 10  
 Slope = 8.99  
 units per year.  
 Mann-Kendall  
 statistic = 35  
 critical = 30  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-9

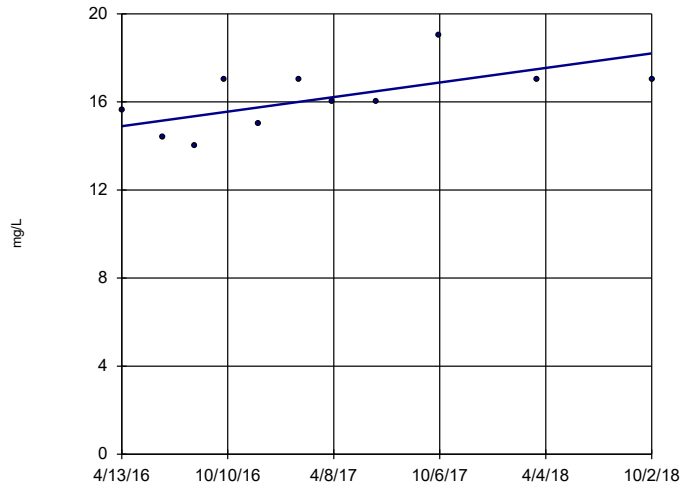


n = 11  
 Slope = 0.3008  
 units per year.  
 Mann-Kendall  
 statistic = 10  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10

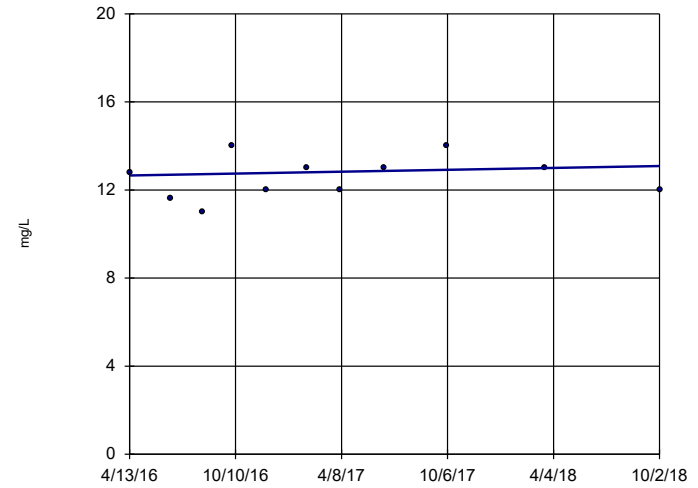


n = 11  
 Slope = 1.337  
 units per year.  
 Mann-Kendall  
 statistic = 26  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-11

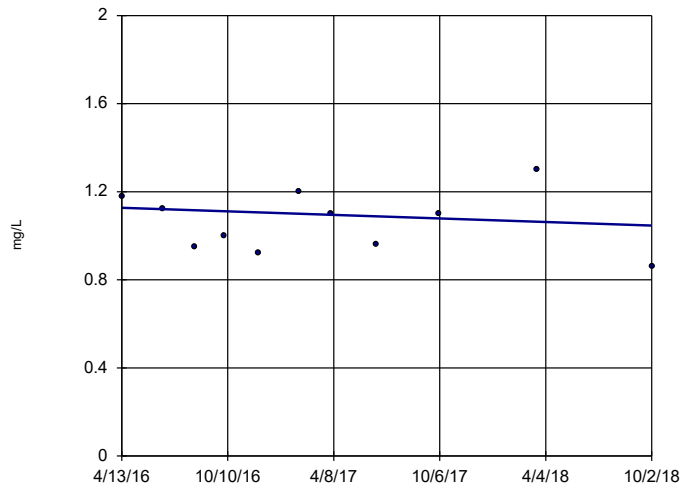


n = 11  
 Slope = 0.1753  
 units per year.  
 Mann-Kendall  
 statistic = 12  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-12

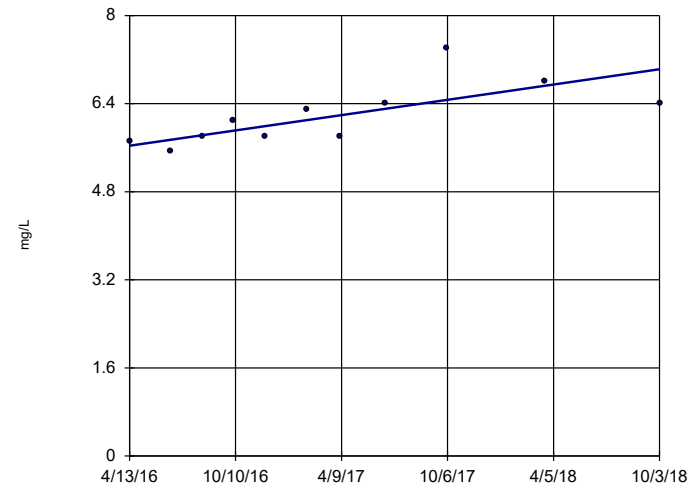


n = 11  
 Slope = -0.03269  
 units per year.  
 Mann-Kendall  
 statistic = -6  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-13



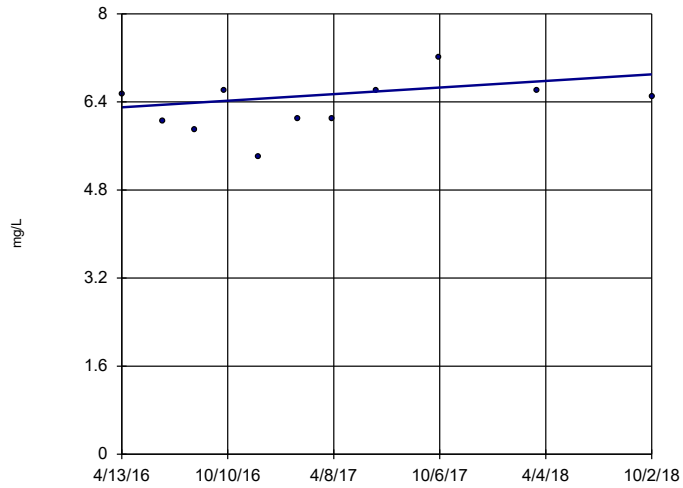
n = 11  
 Slope = 0.5619  
 units per year.  
 Mann-Kendall  
 statistic = 37  
 critical = 34  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 4/23/2019 4:17 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

GWC-14

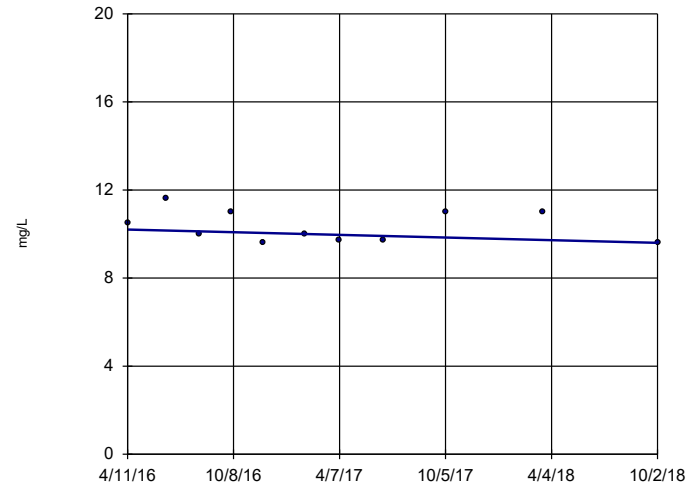


n = 11  
 Slope = 0.2425 units per year.  
 Mann-Kendall statistic = 17  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

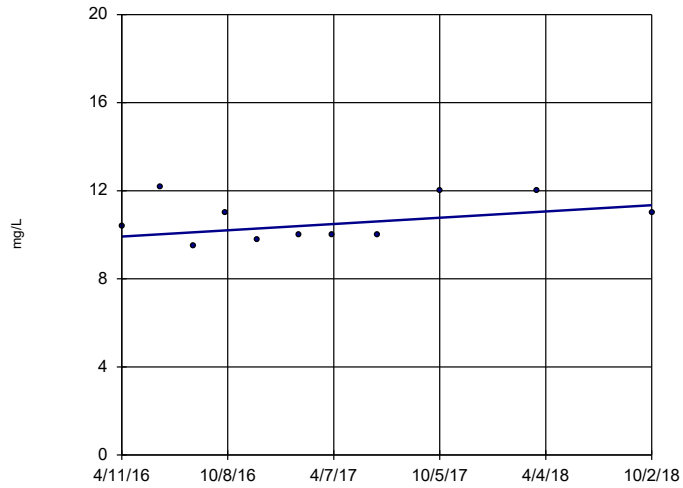


n = 11  
 Slope = -0.2429 units per year.  
 Mann-Kendall statistic = -13  
 critical = -34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

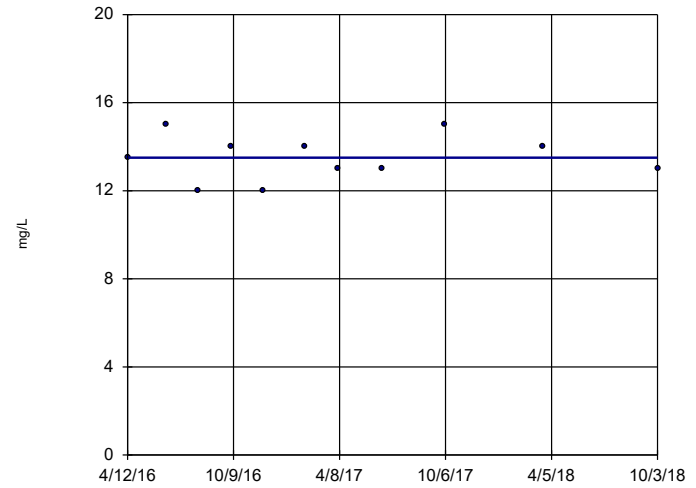


n = 11  
 Slope = 0.5748 units per year.  
 Mann-Kendall statistic = 10  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-20

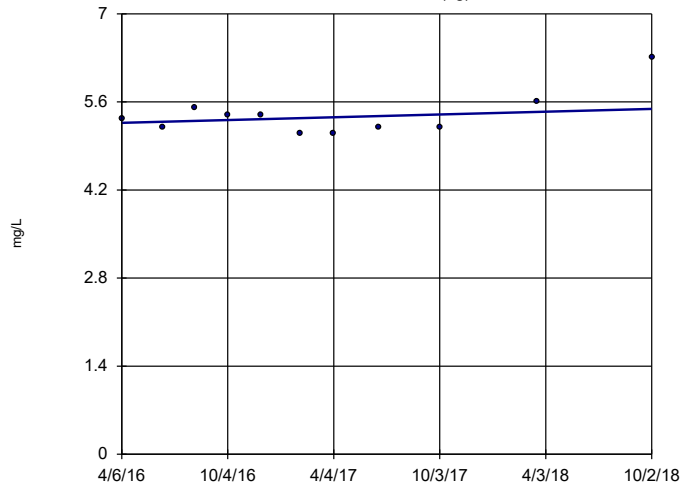


n = 11  
 Slope = 0 units per year.  
 Mann-Kendall statistic = 1  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

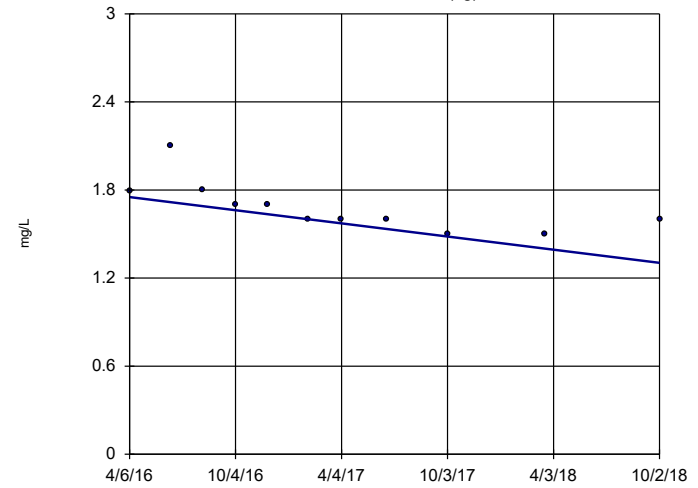


n = 11  
 Slope = 0.08895  
 units per year.  
 Mann-Kendall  
 statistic = 8  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

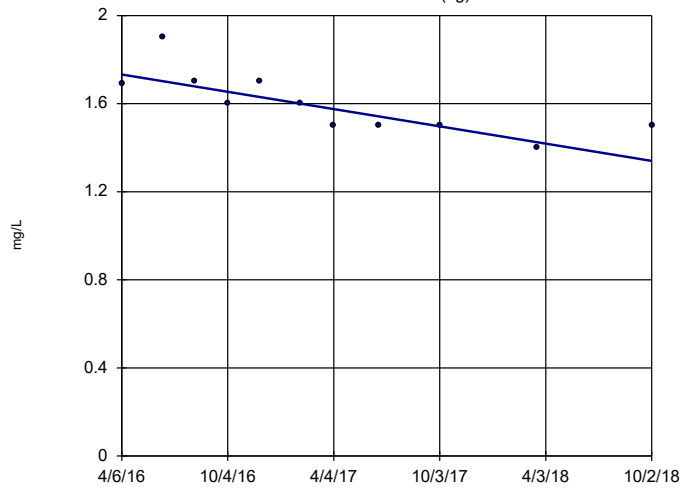


n = 11  
 Slope = -0.1798  
 units per year.  
 Mann-Kendall  
 statistic = -39  
 critical = -34  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

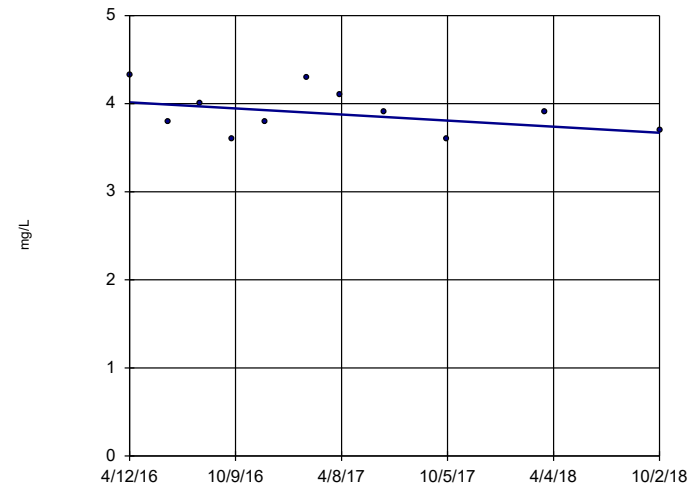


n = 11  
 Slope = -0.1576  
 units per year.  
 Mann-Kendall  
 statistic = -37  
 critical = -34  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

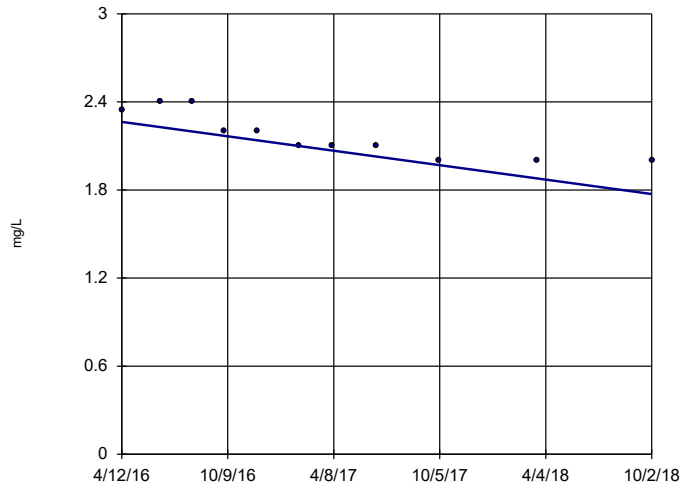


n = 11  
 Slope = -0.14  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

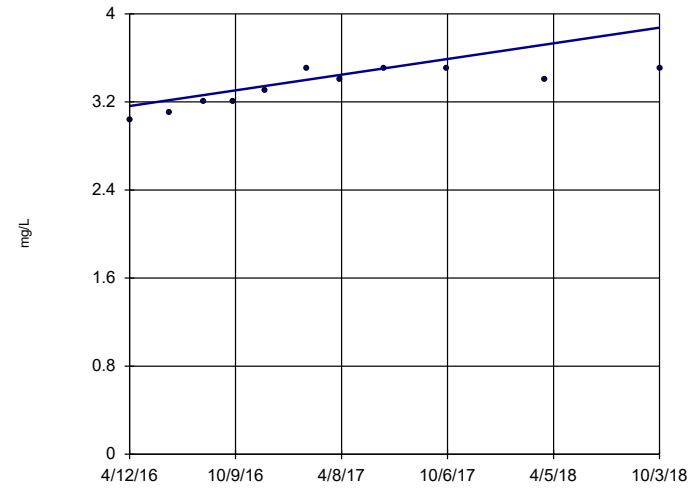


n = 11  
 Slope = -0.1984  
 units per year.  
 Mann-Kendall  
 statistic = -43  
 critical = -34  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

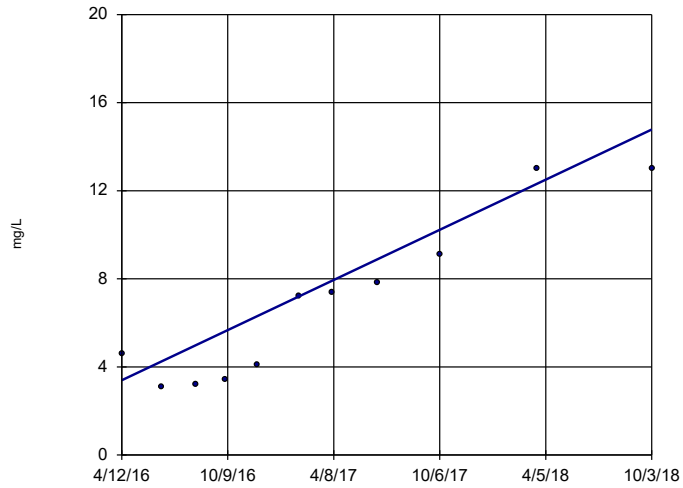


n = 11  
 Slope = 0.2874  
 units per year.  
 Mann-Kendall  
 statistic = 39  
 critical = 34  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

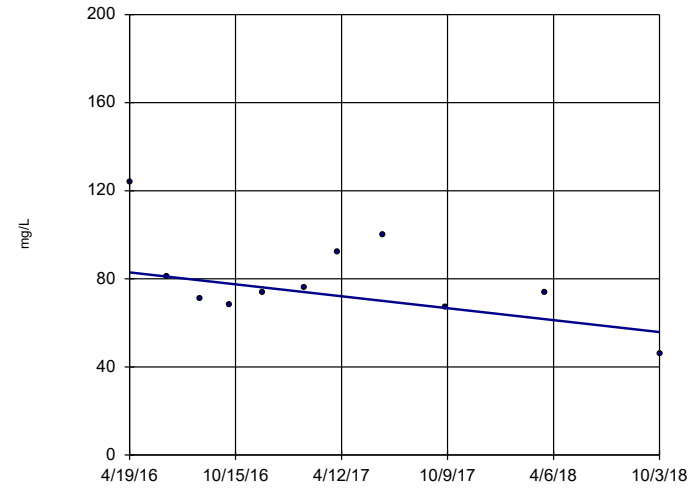


n = 11  
 Slope = 4.598  
 units per year.  
 Mann-Kendall  
 statistic = 46  
 critical = 34  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

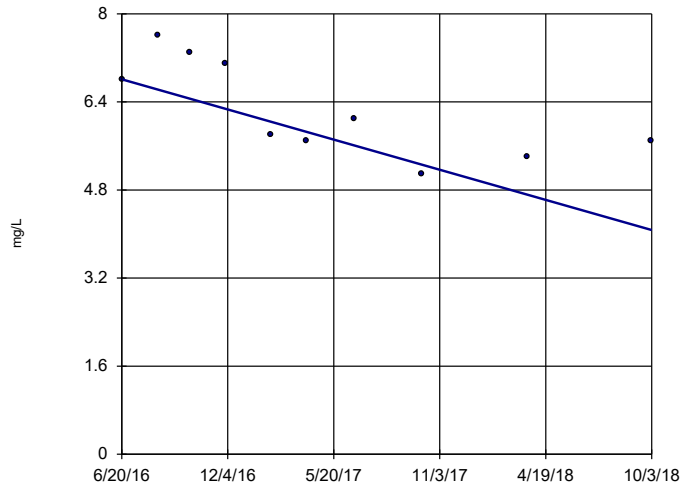


n = 11  
 Slope = -11.05  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-6

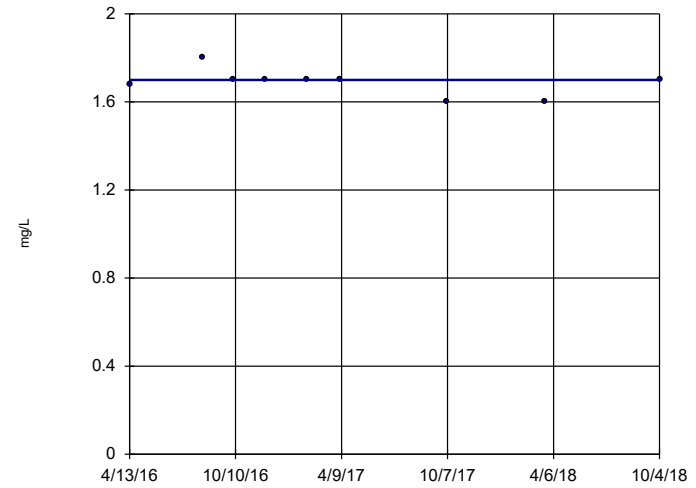


n = 10  
 Slope = -1.197  
 units per year.  
 Mann-Kendall  
 statistic = -28  
 critical = -30  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-7

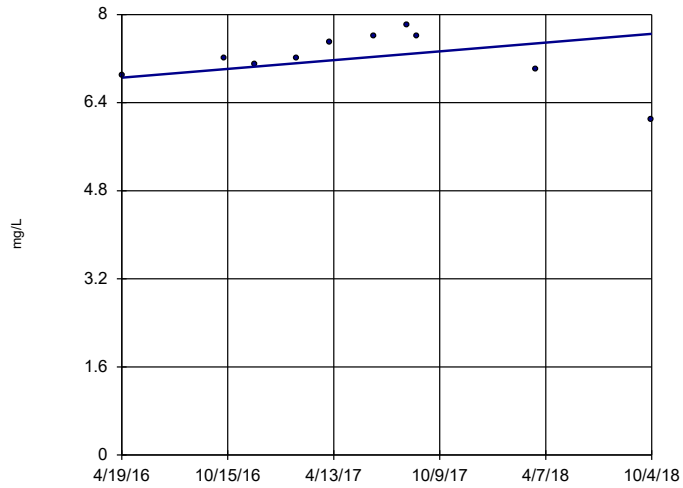


n = 9  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -9  
 critical = -25  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-8A

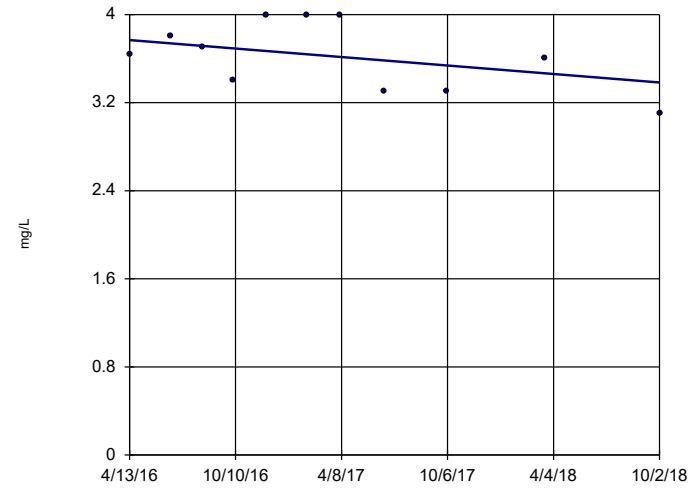


n = 10  
 Slope = 0.323  
 units per year.  
 Mann-Kendall  
 statistic = 7  
 critical = 30  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

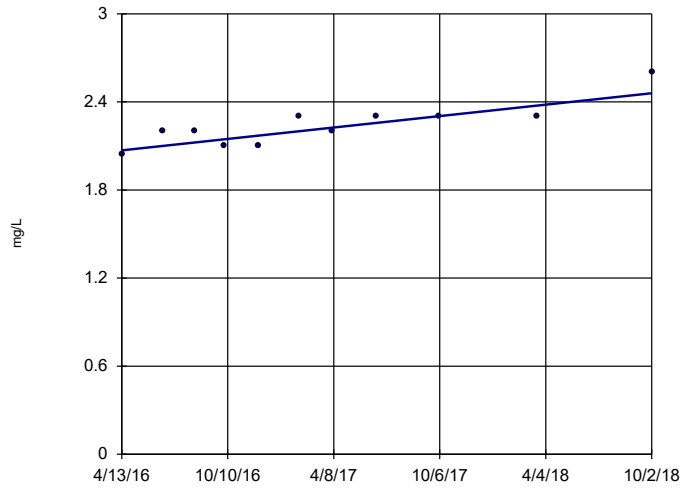
GWC-9



n = 11  
 Slope = -0.156  
 units per year.  
 Mann-Kendall  
 statistic = -17  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

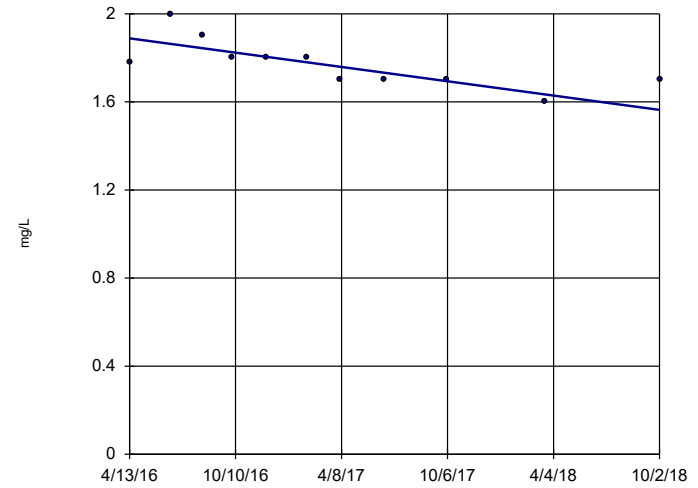
Sen's Slope Estimator  
GWC-10



n = 11  
Slope = 0.1573  
units per year.  
Mann-Kendall  
statistic = 35  
critical = 34  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

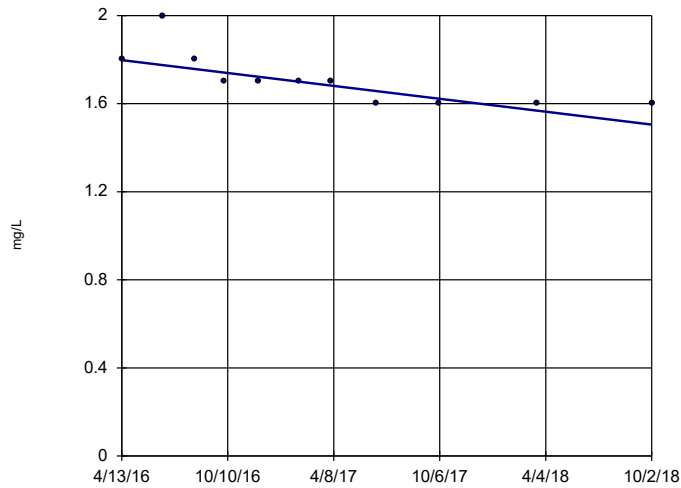
Sen's Slope Estimator  
GWC-11



n = 11  
Slope = -0.1315  
units per year.  
Mann-Kendall  
statistic = -34  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

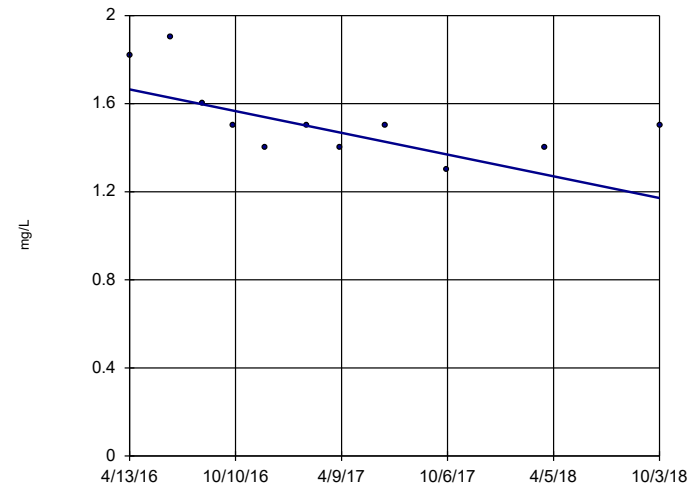
Sen's Slope Estimator  
GWC-12



n = 11  
Slope = -0.1185  
units per year.  
Mann-Kendall  
statistic = -40  
critical = -34  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13

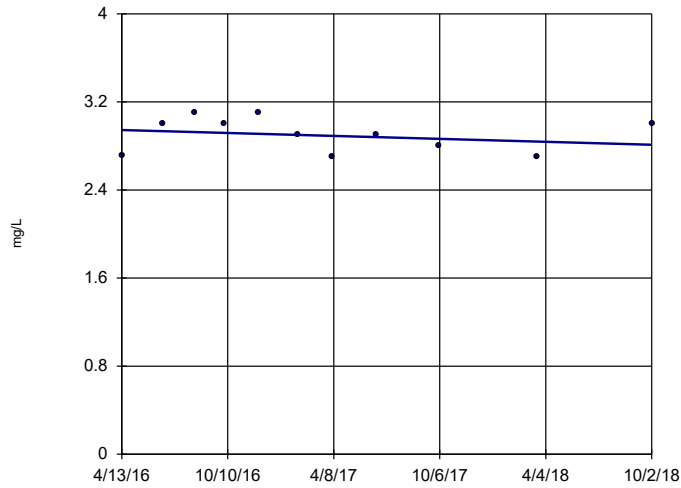


n = 11  
Slope = -0.1995  
units per year.  
Mann-Kendall  
statistic = -28  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

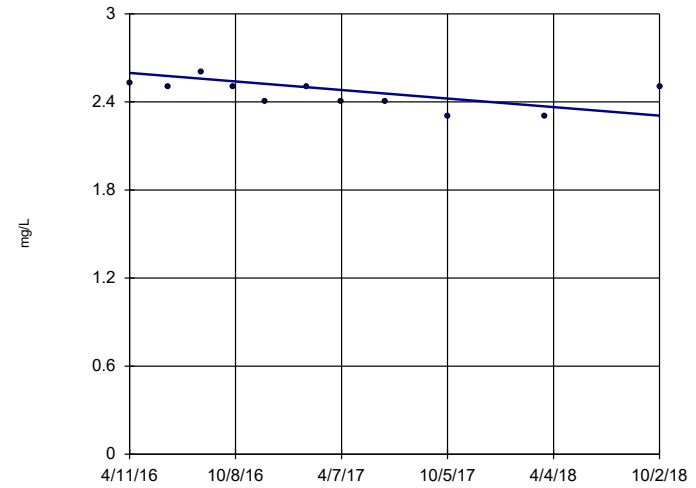


n = 11  
 Slope = -0.05448  
 units per year.  
 Mann-Kendall  
 statistic = -13  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

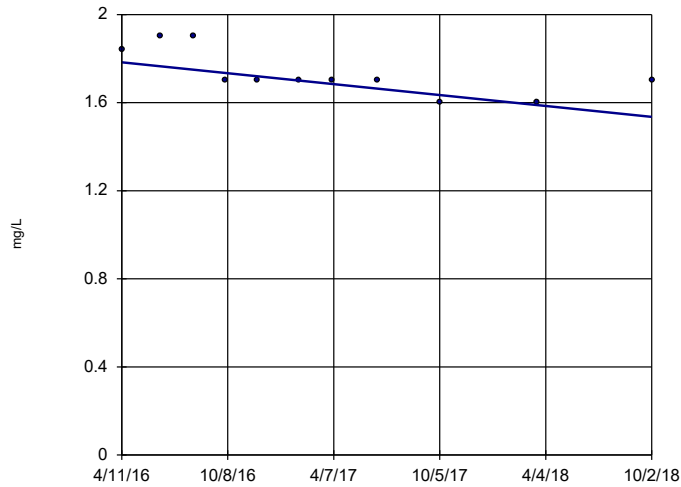


n = 11  
 Slope = -0.1177  
 units per year.  
 Mann-Kendall  
 statistic = -29  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

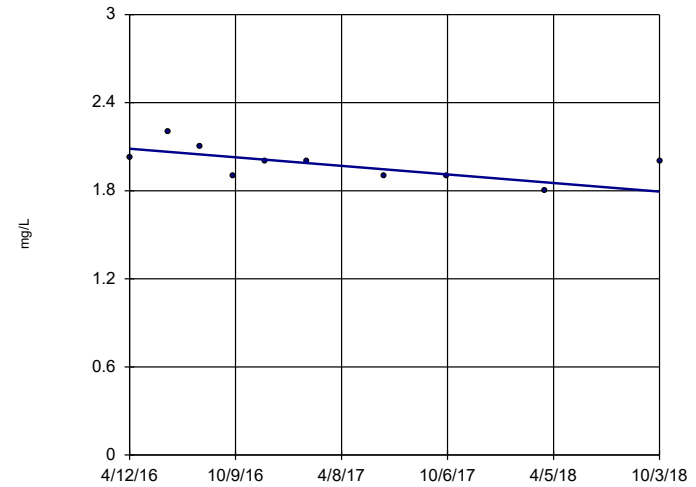


n = 11  
 Slope = -0.1  
 units per year.  
 Mann-Kendall  
 statistic = -30  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

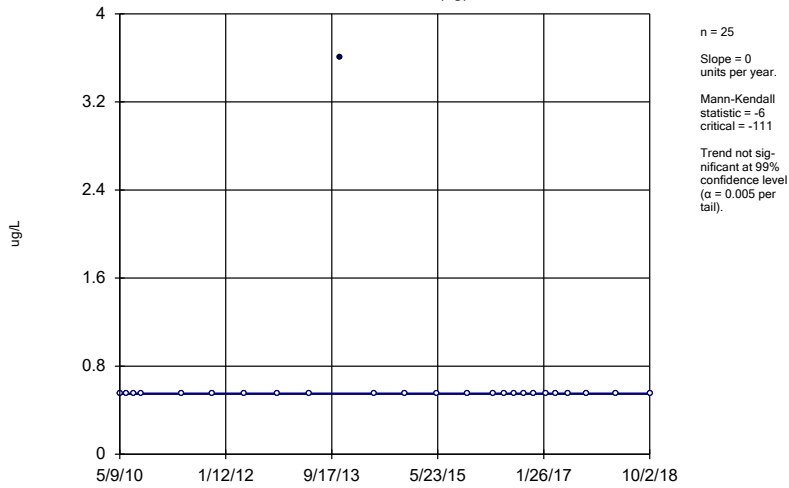
GWC-20



n = 10  
 Slope = -0.1181  
 units per year.  
 Mann-Kendall  
 statistic = -23  
 critical = -30  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

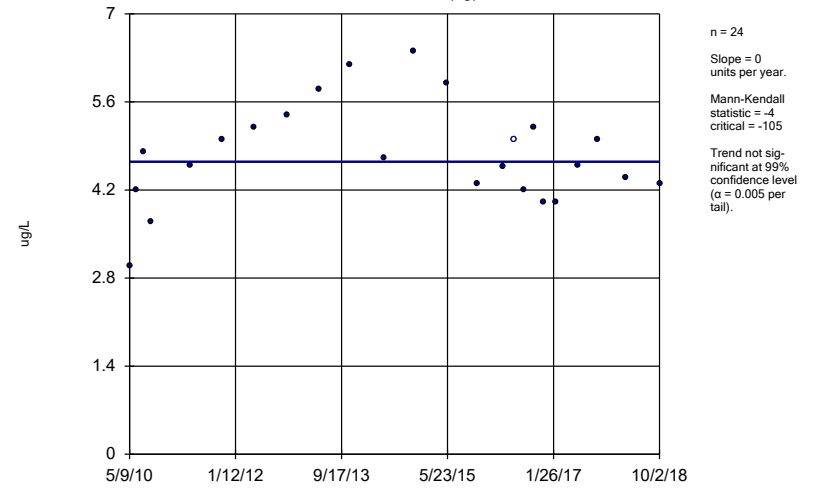
Constituent: Chloride Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWA-15 (bg)



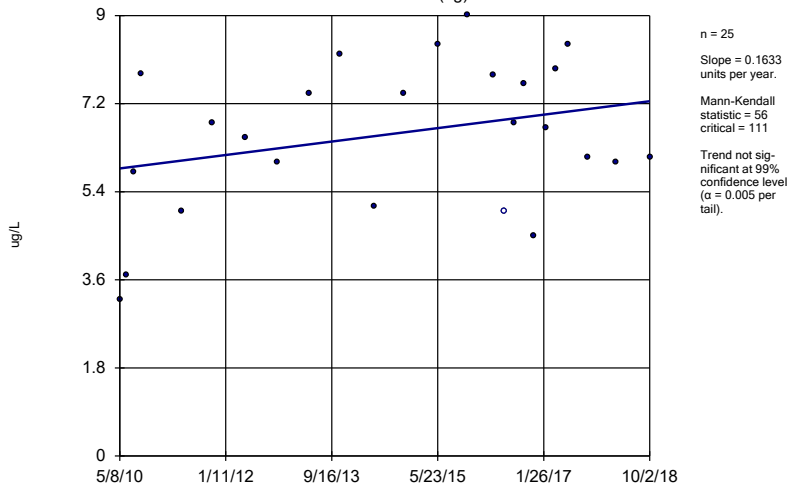
Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWA-16 (bg)



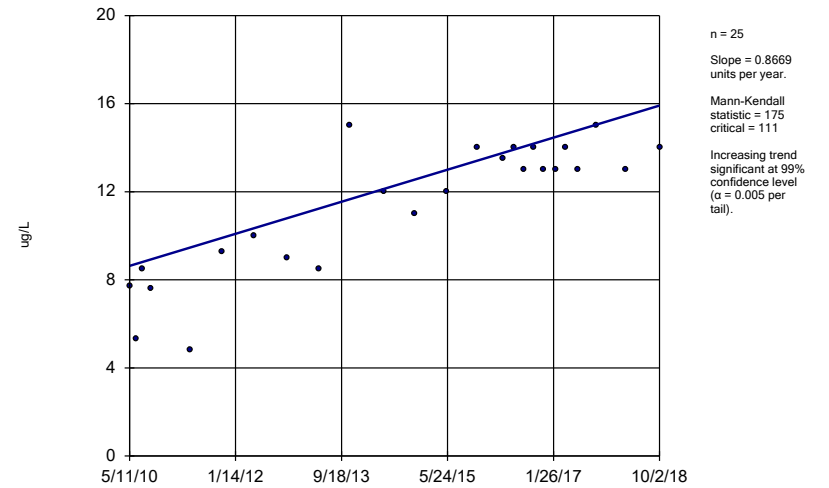
Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWA-17 (bg)



Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-1

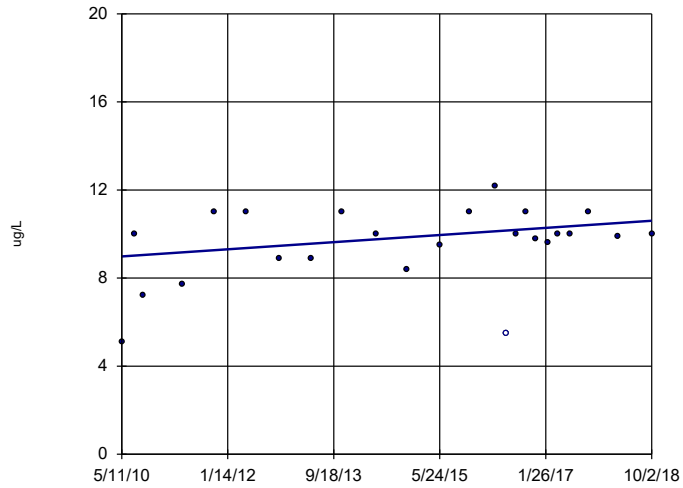


Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

GWC-2

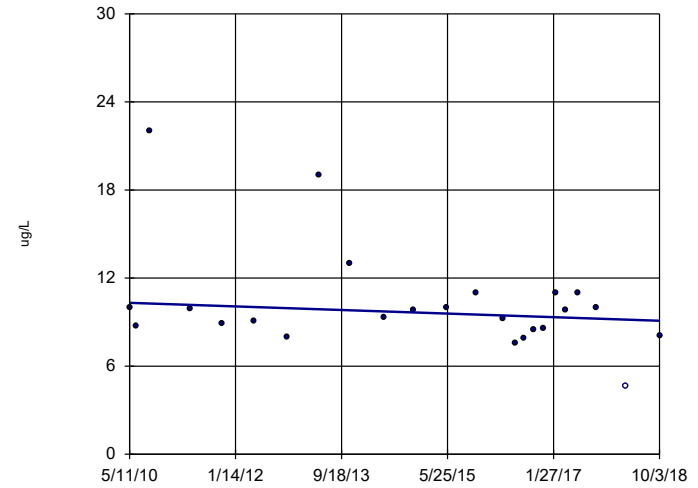


n = 24  
Slope = 0.1929  
units per year.  
Mann-Kendall  
statistic = 59  
critical = 105  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

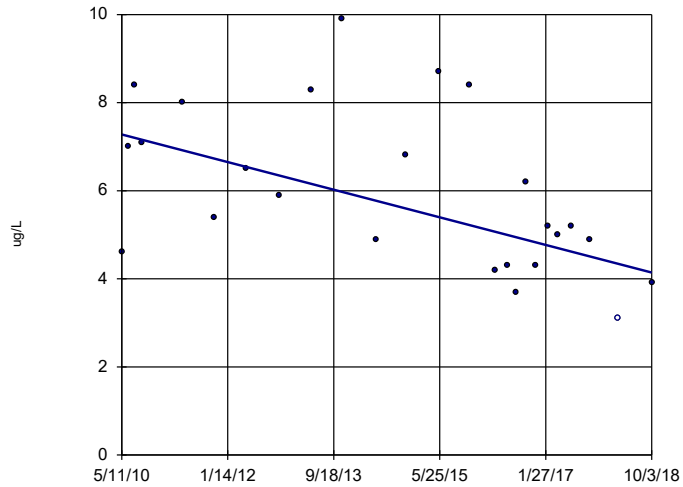


n = 24  
Slope = -0.1456  
units per year.  
Mann-Kendall  
statistic = -47  
critical = -105  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

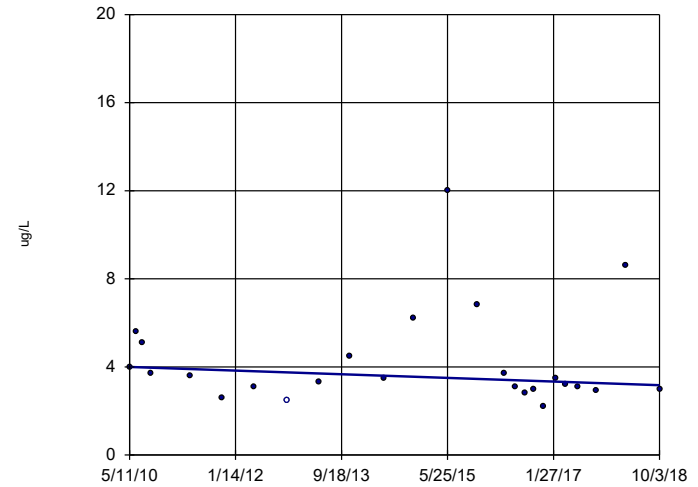


n = 25  
Slope = -0.3733  
units per year.  
Mann-Kendall  
statistic = -112  
critical = -111  
Decreasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

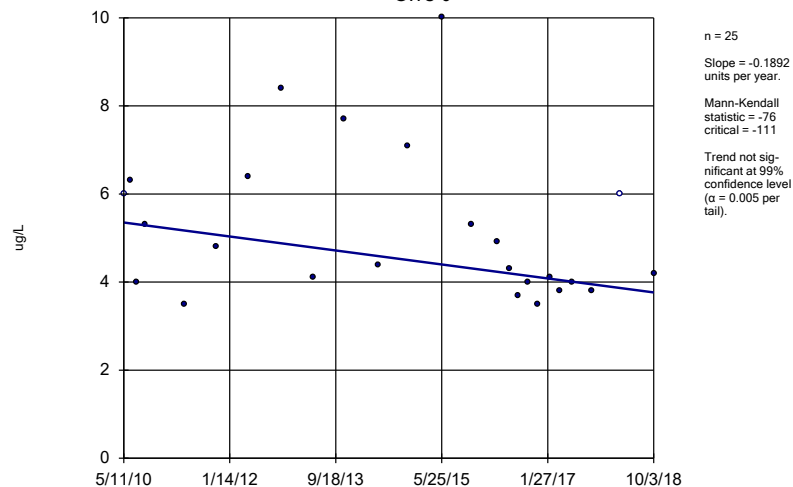


n = 25  
Slope = -0.09865  
units per year.  
Mann-Kendall  
statistic = -63  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

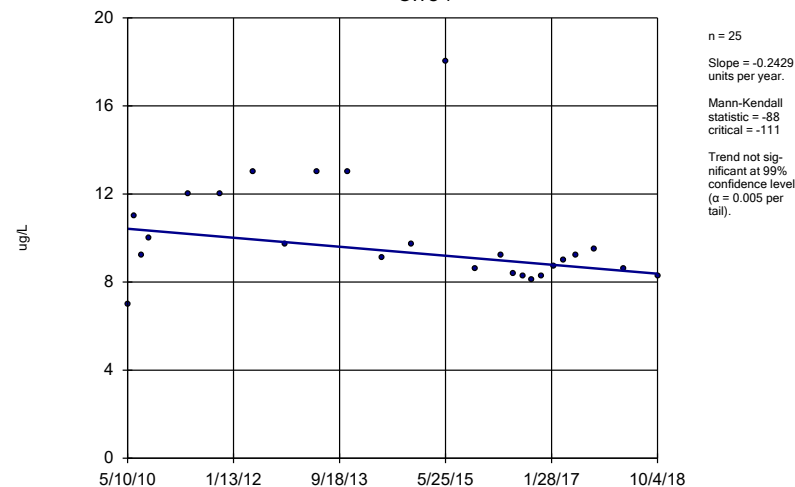
GWC-6



Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

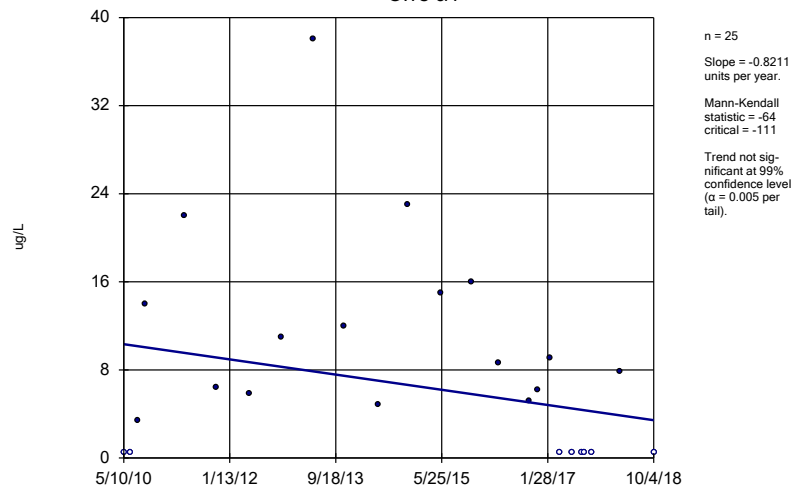
GWC-7



Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

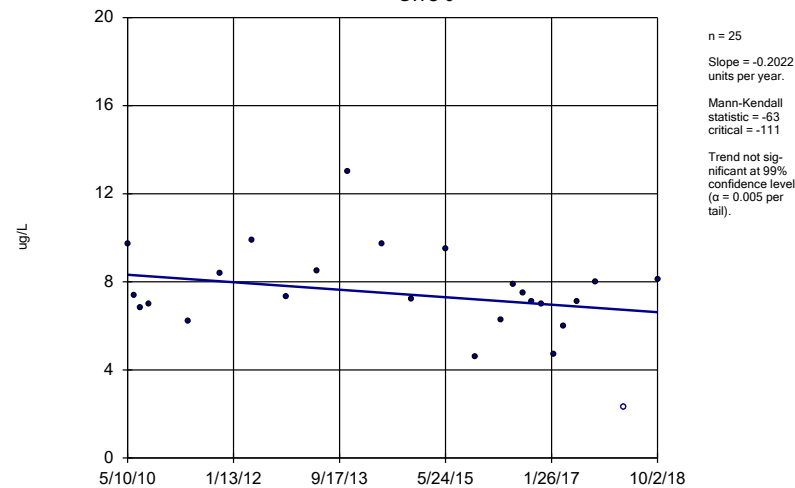
GWC-8A



Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

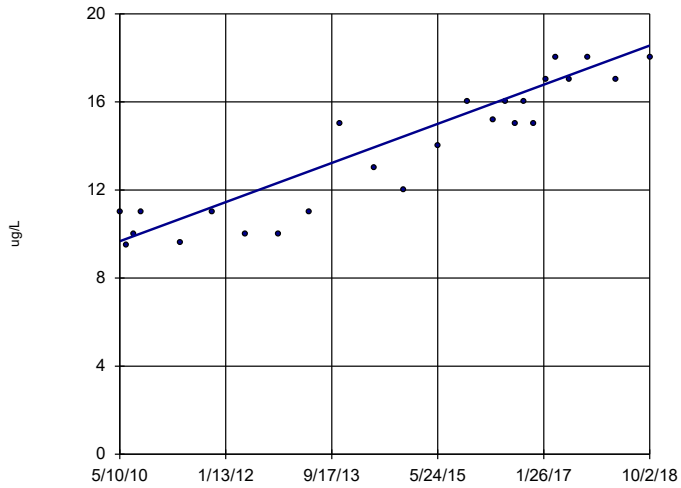
GWC-9



Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10



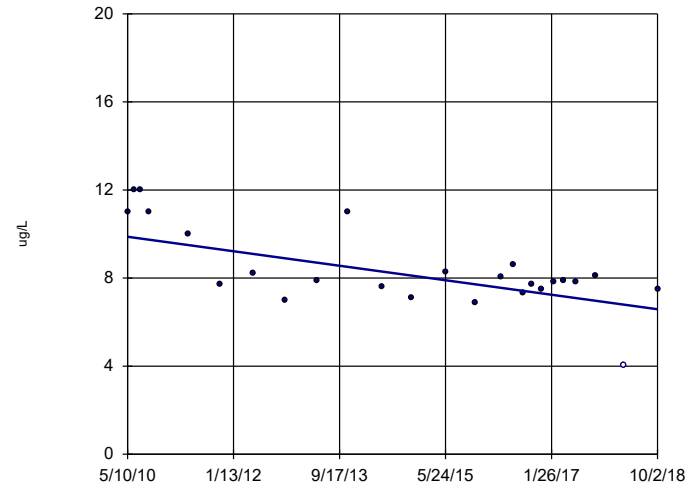
n = 25  
 Slope = 1.057  
 units per year.  
 Mann-Kendall  
 statistic = 227  
 critical = 111  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GWC-11



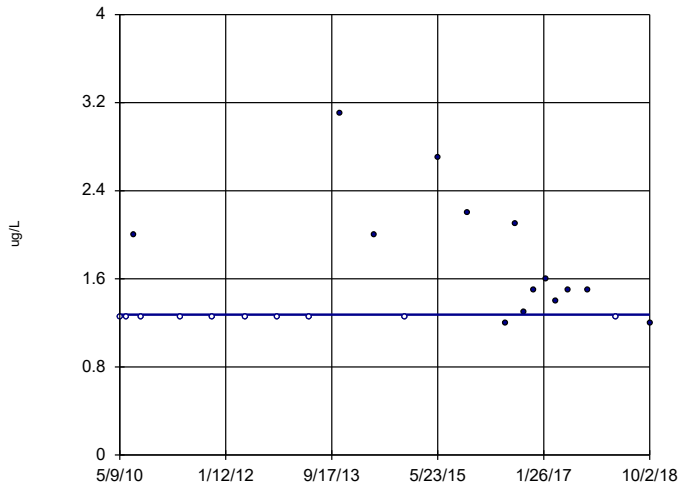
n = 25  
 Slope = -0.3917  
 units per year.  
 Mann-Kendall  
 statistic = -116  
 critical = -111  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GWC-12

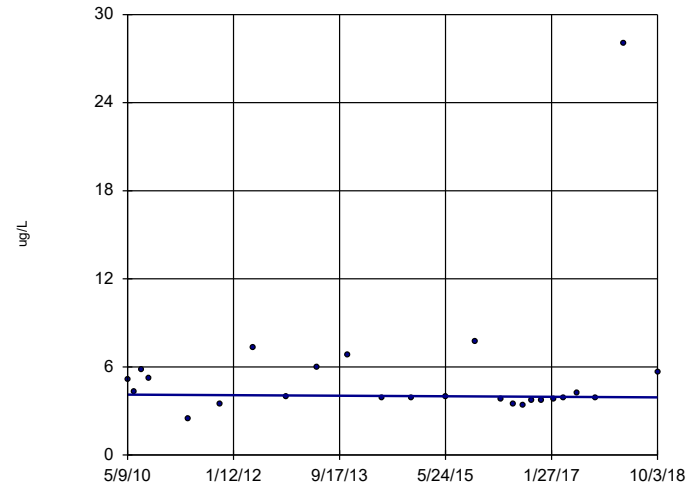


n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 18  
 critical = 105  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-13

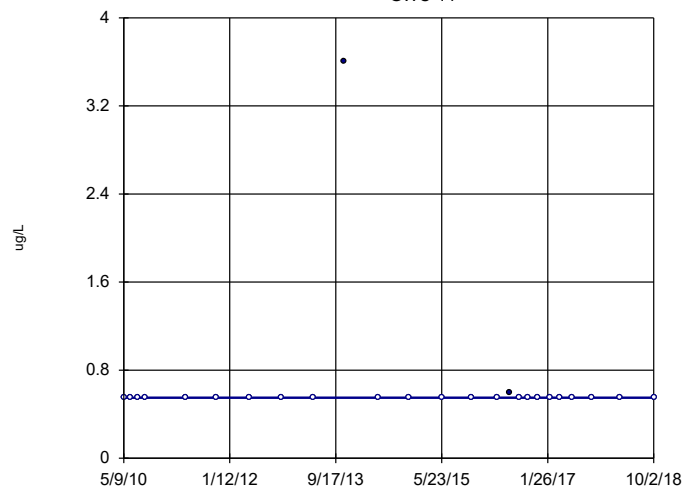


n = 25  
 Slope = -0.02177  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -111  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

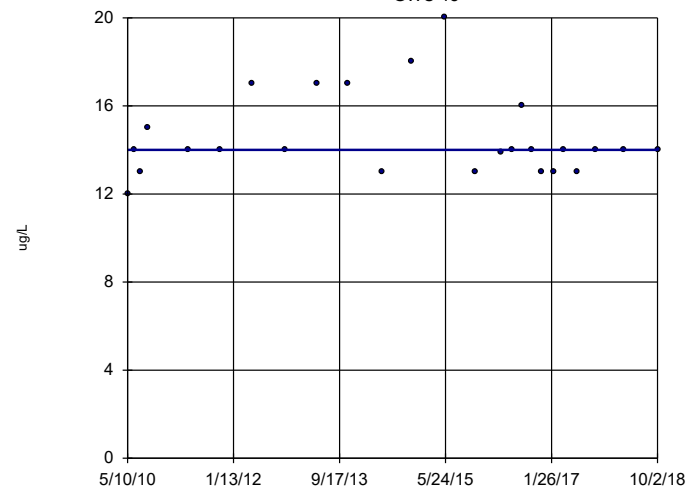


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

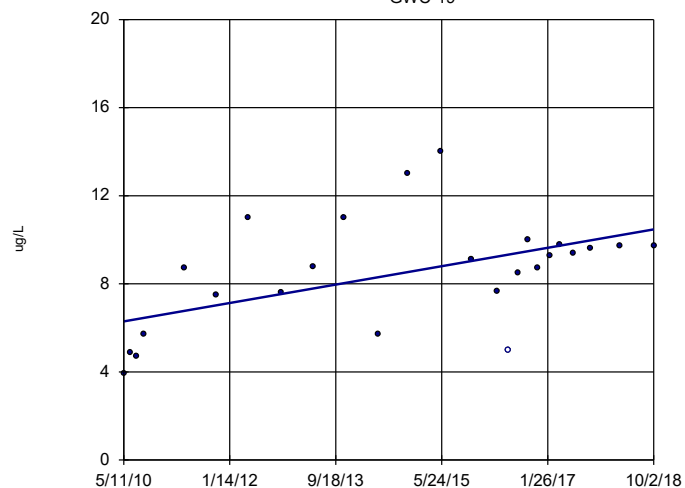


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

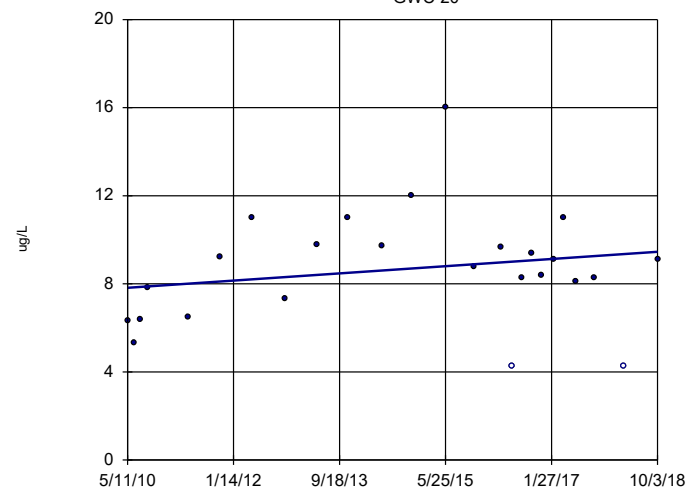


n = 25  
Slope = 0.4972  
units per year.  
Mann-Kendall  
statistic = 124  
critical = 111  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-20

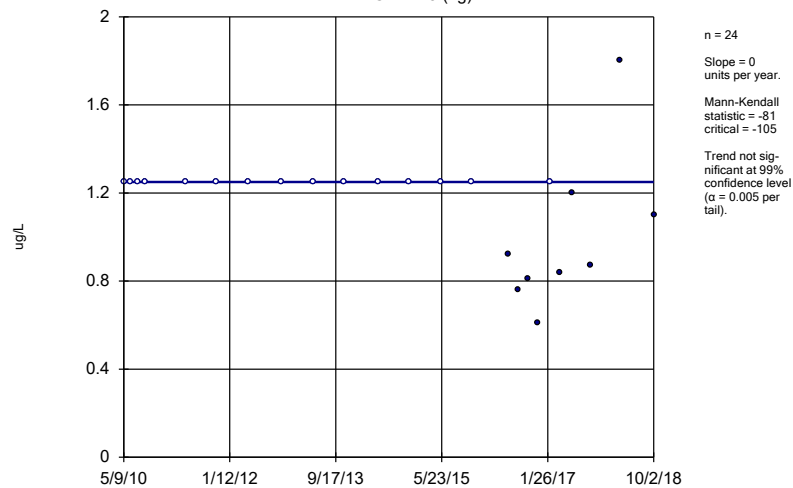


n = 25  
Slope = 0.1939  
units per year.  
Mann-Kendall  
statistic = 28  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

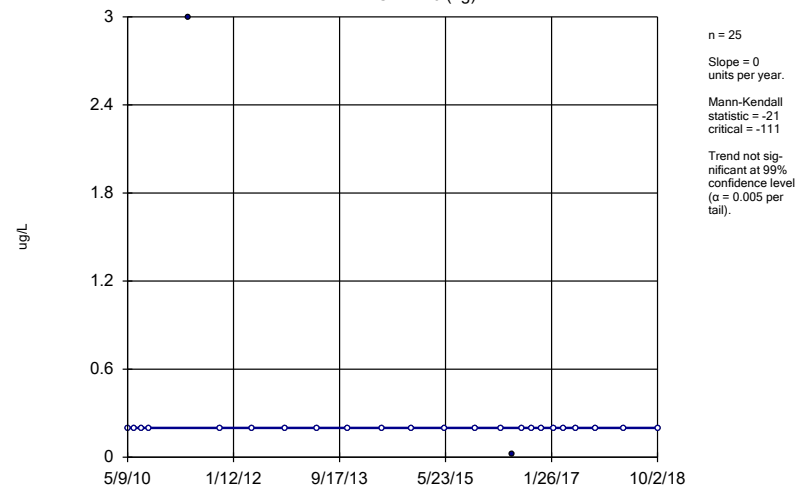
GWA-15 (bg)



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

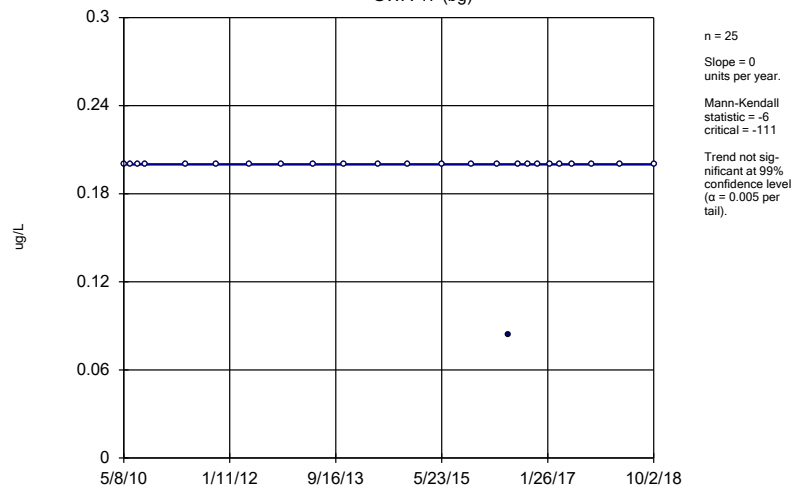
GWA-16 (bg)



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

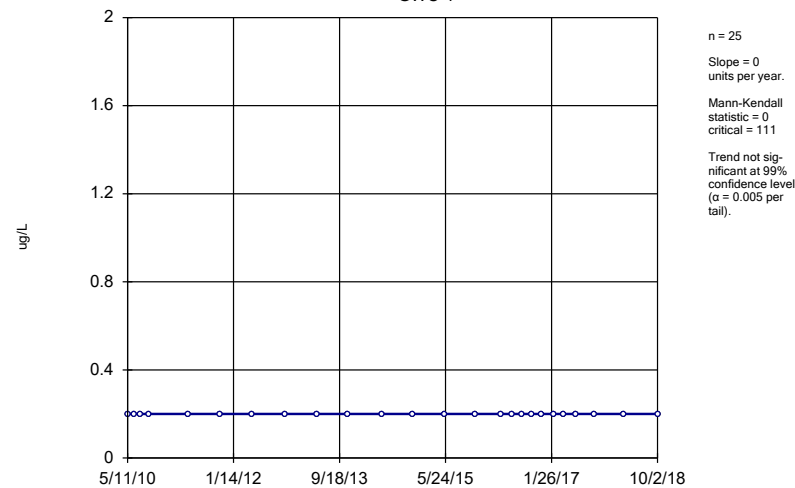
GWA-17 (bg)



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

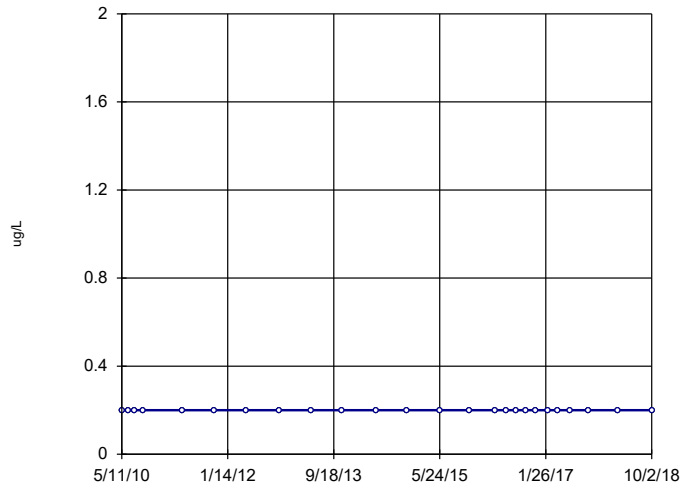
GWC-1



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

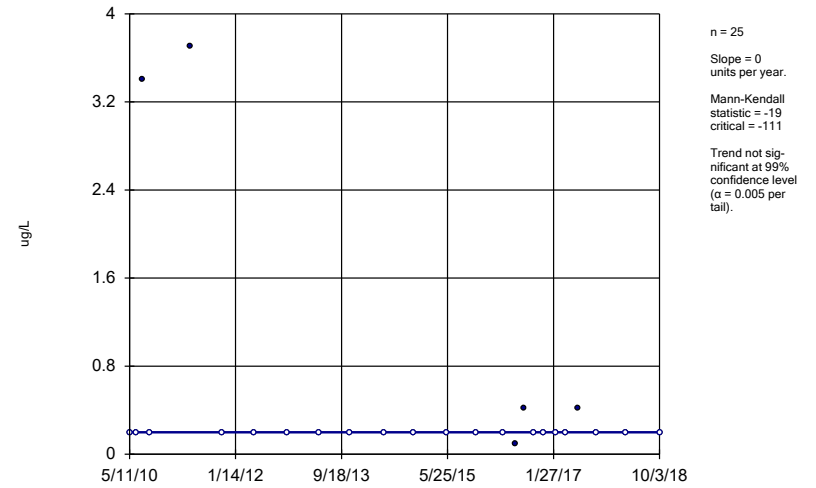
GWC-2



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

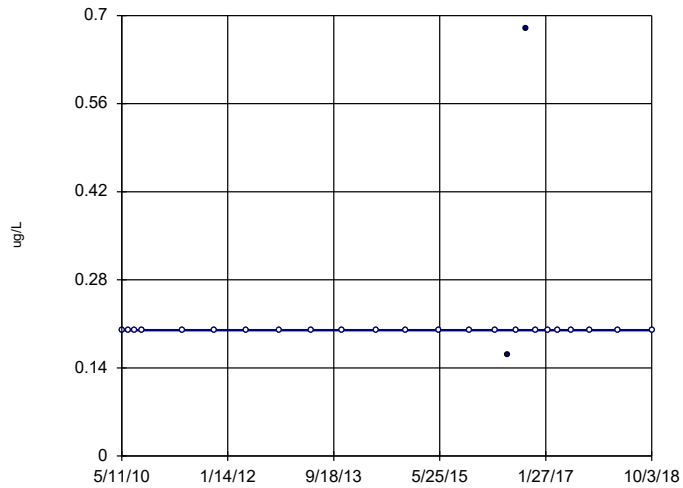
GWC-3



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

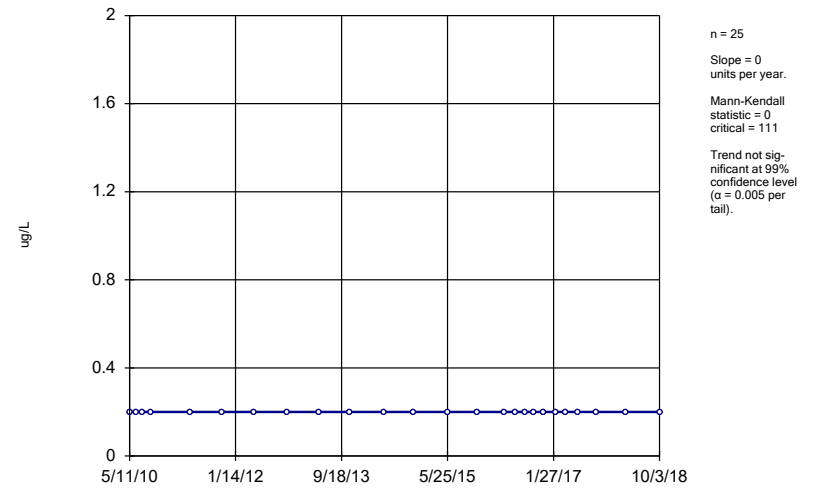
GWC-4



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

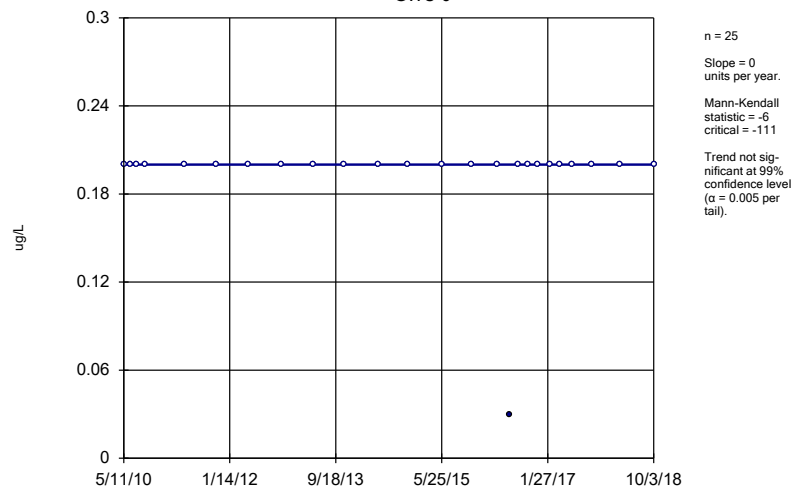
GWC-5



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

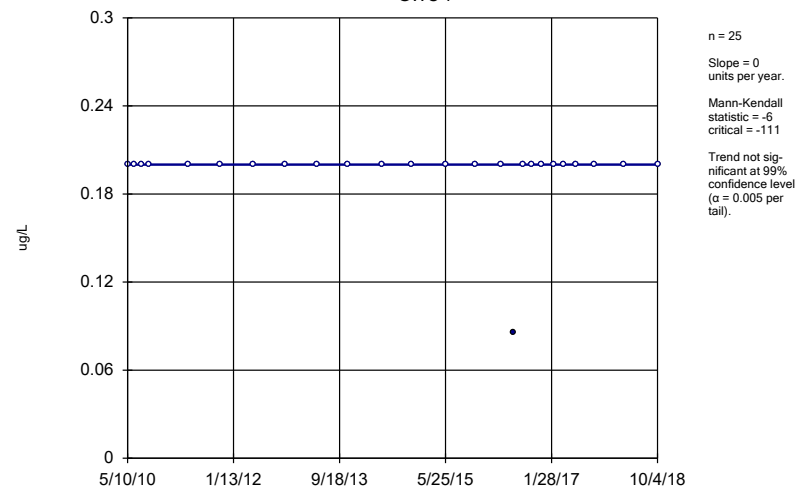
GWC-6



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:18 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

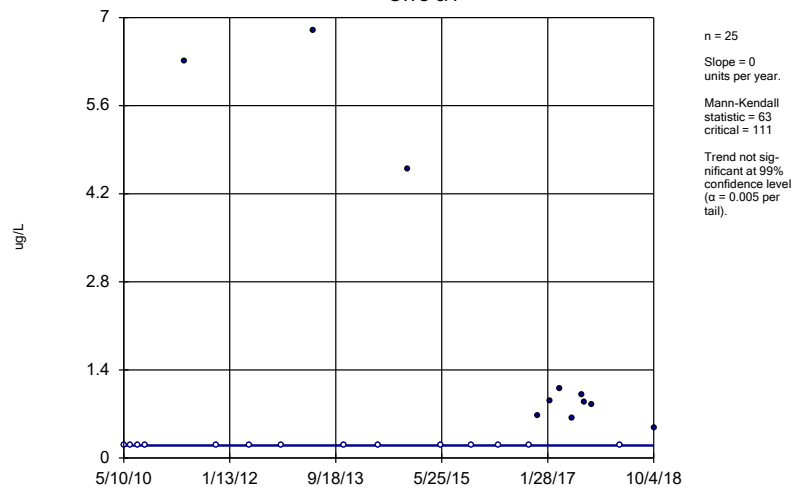
GWC-7



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

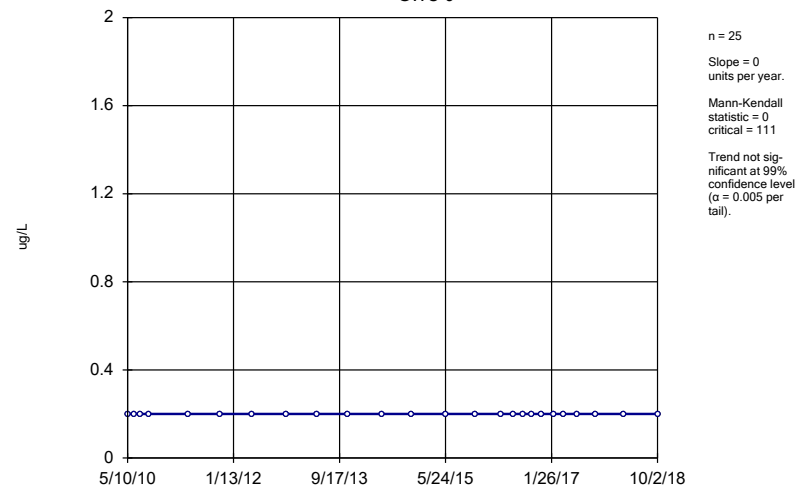
GWC-8A



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

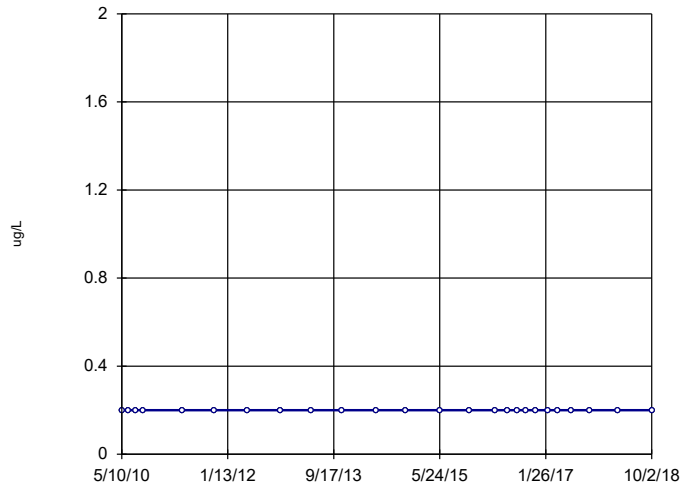
GWC-9



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

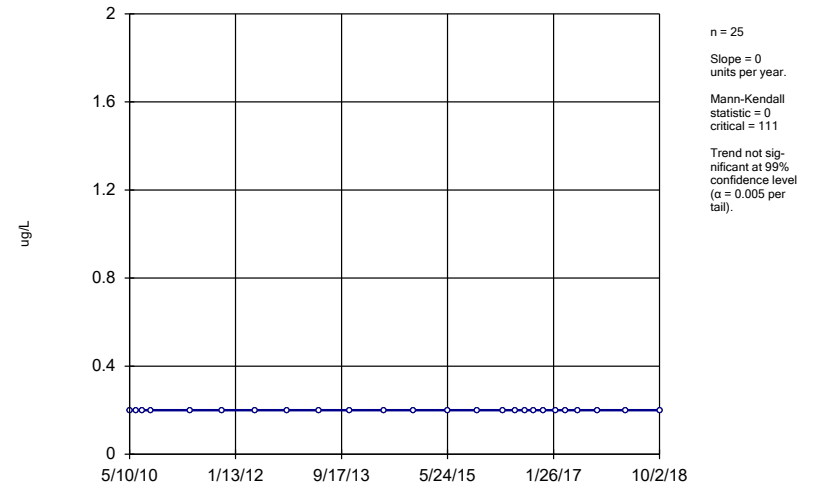


Sen's Slope Estimator  
GWC-10



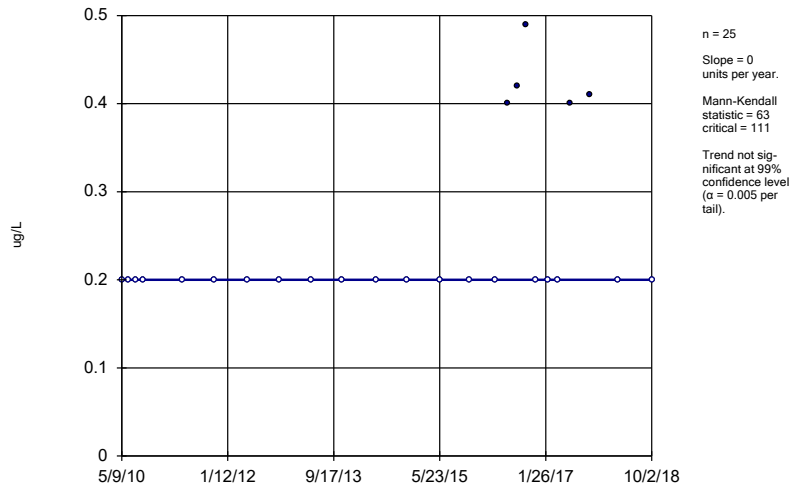
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



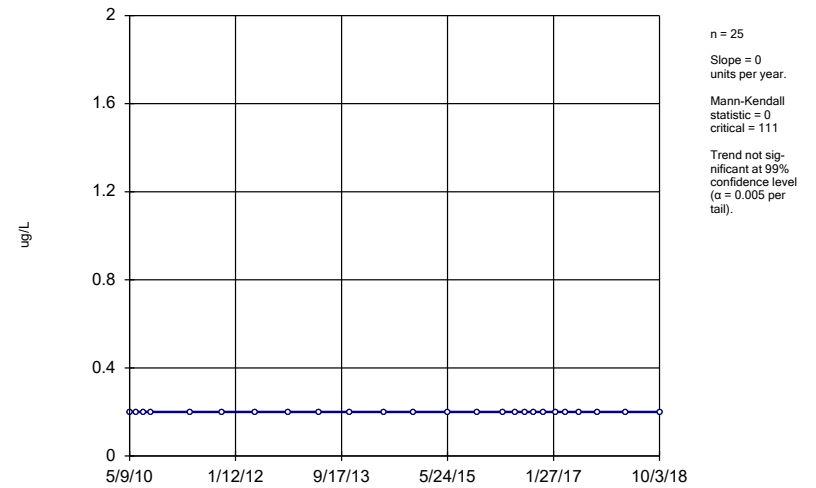
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



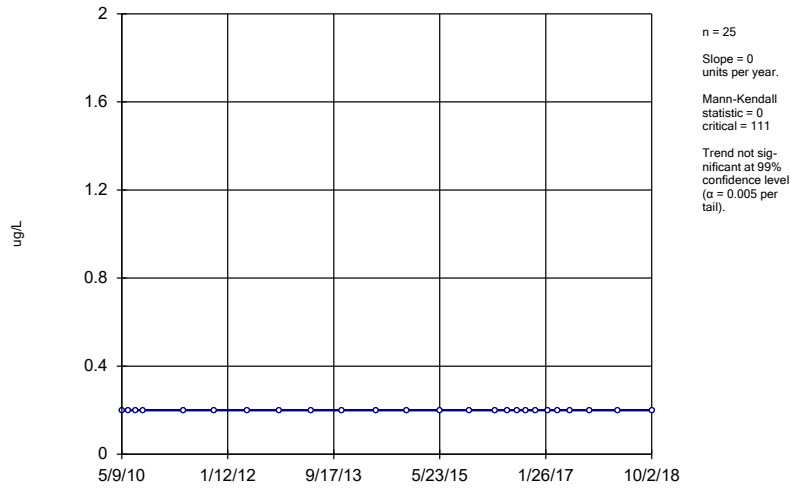
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13



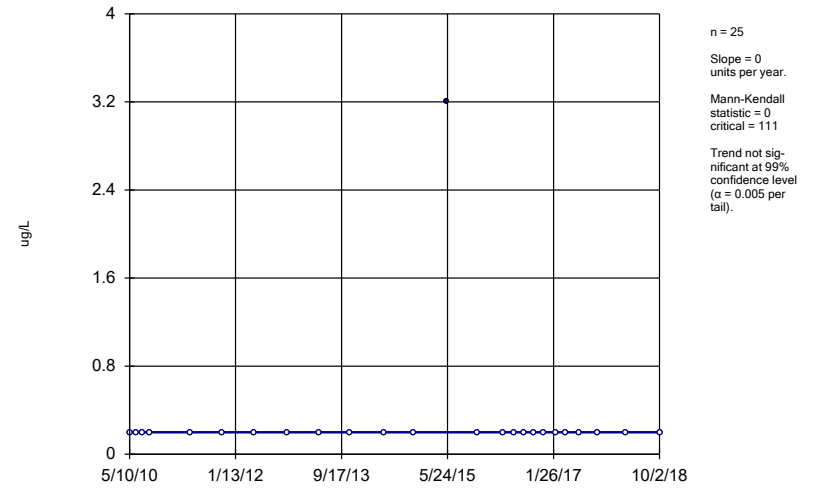
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



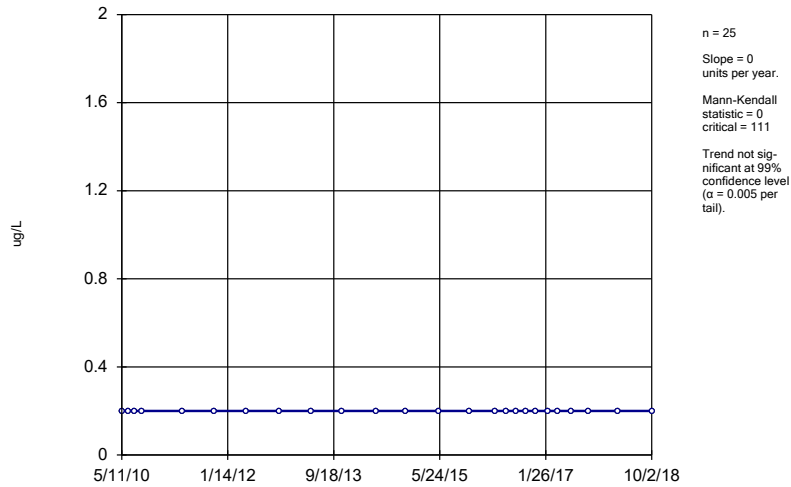
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



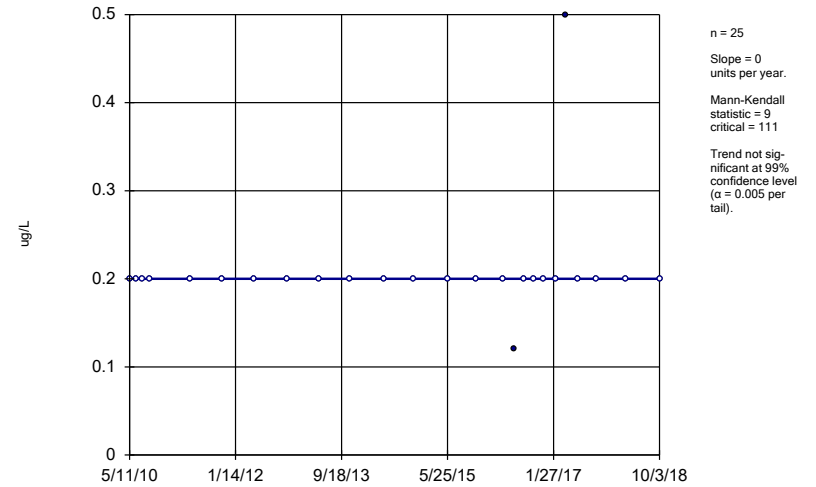
Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

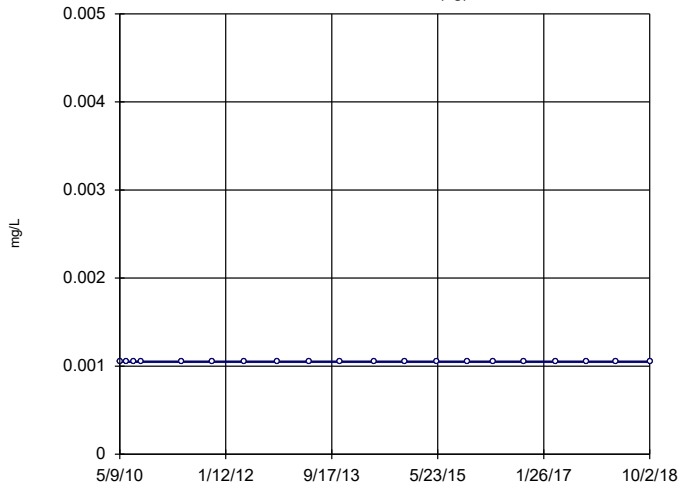
### Sen's Slope Estimator GWC-20



Constituent: Cobalt, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

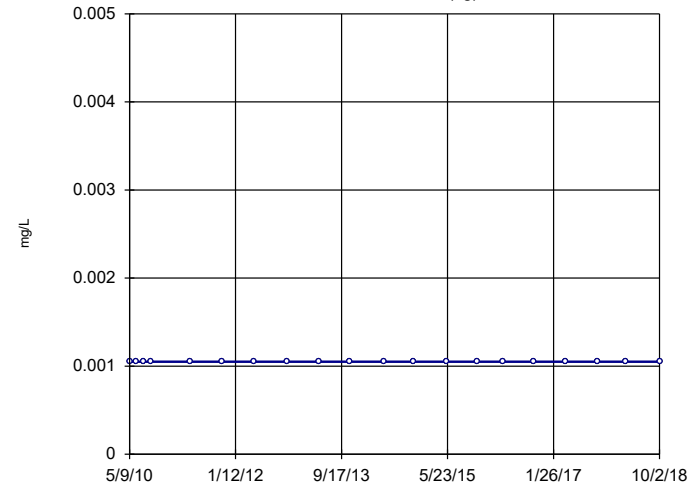


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

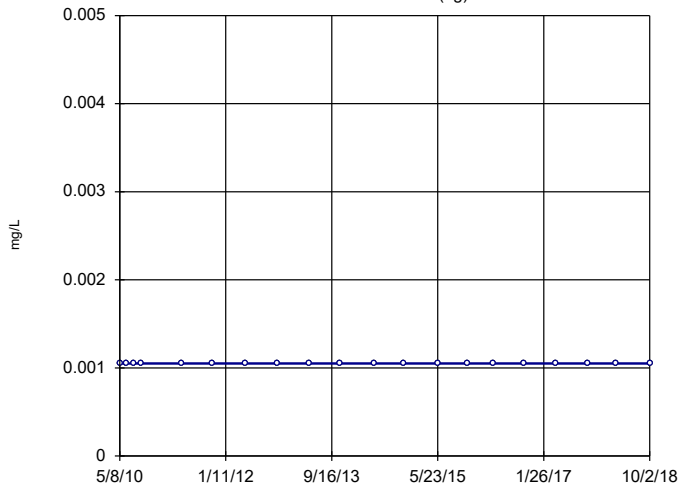


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

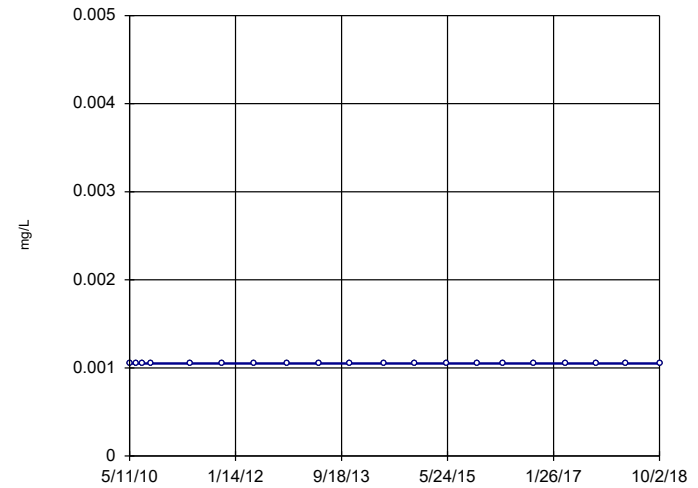


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

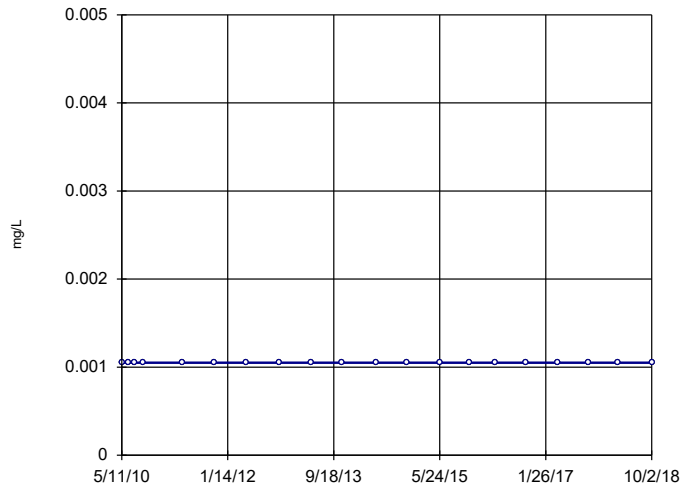
GWC-1



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

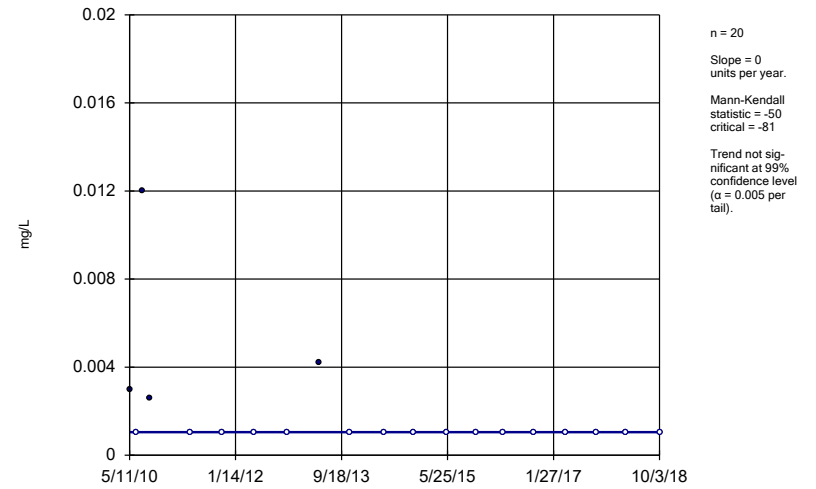
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-2



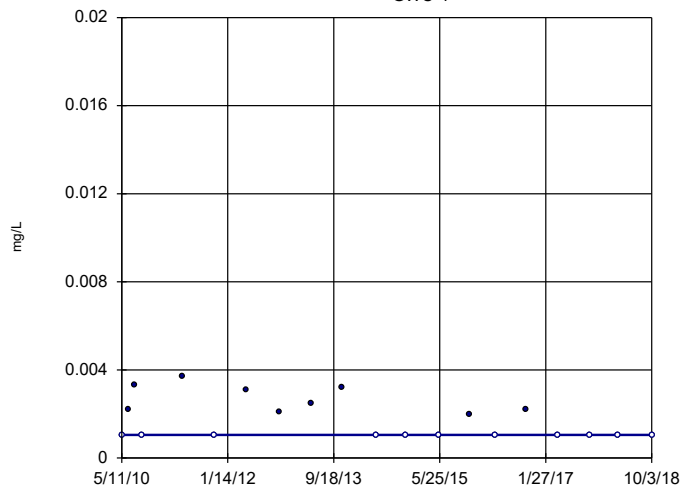
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-3



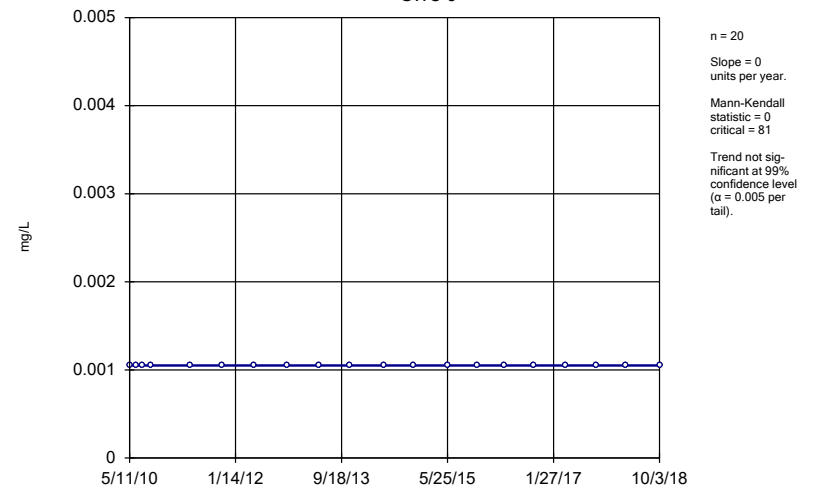
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-4



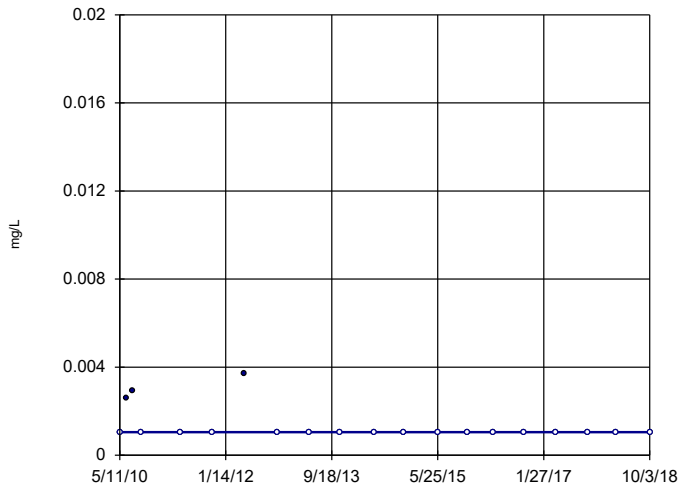
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-5



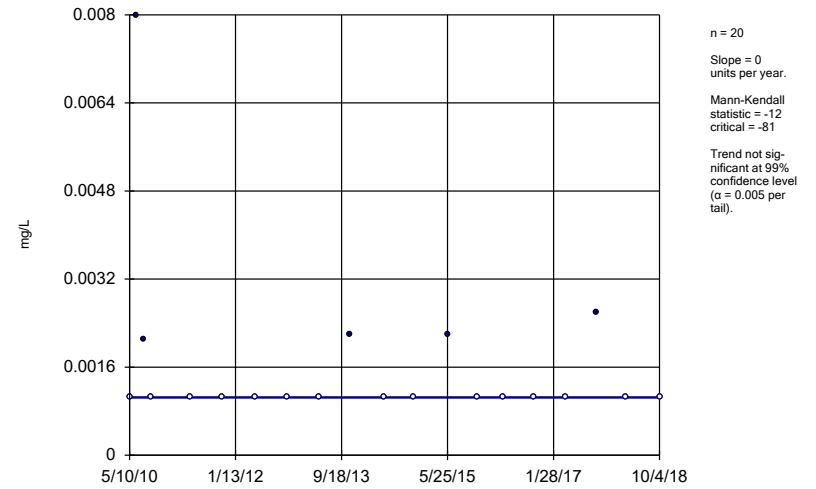
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-6



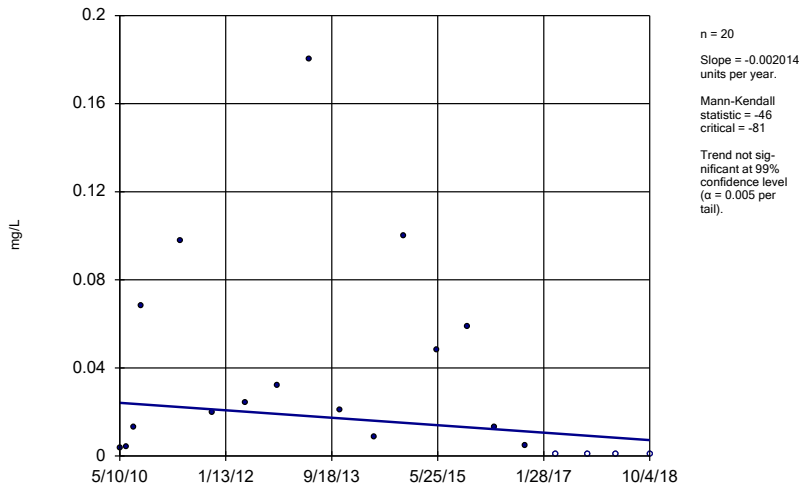
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-7



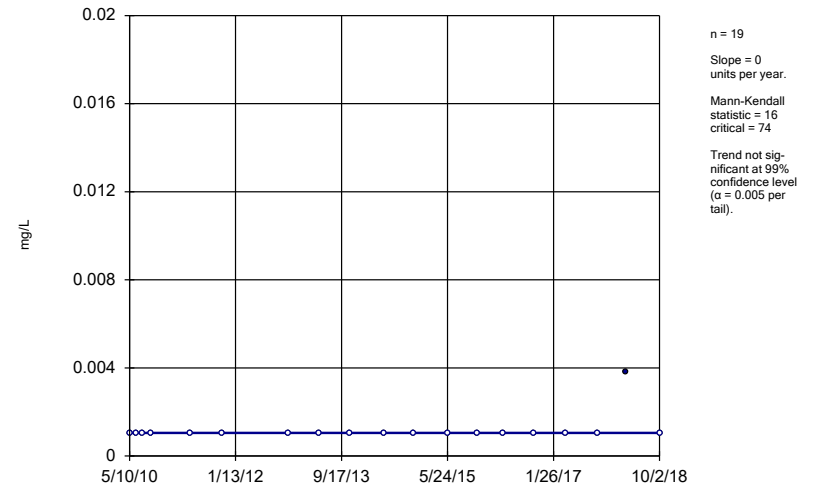
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-8A



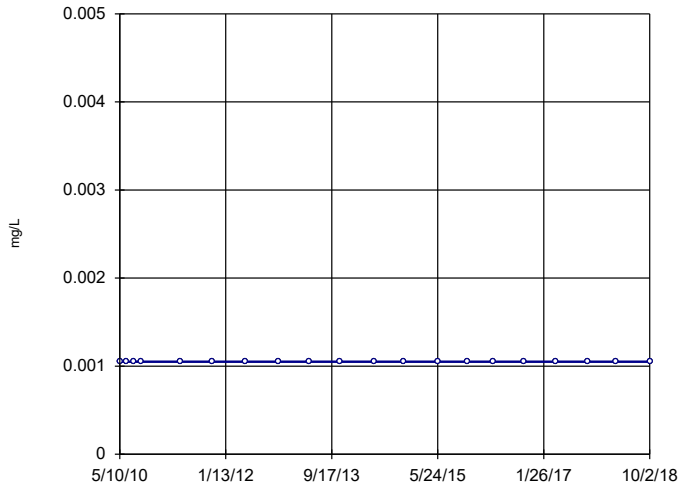
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-9



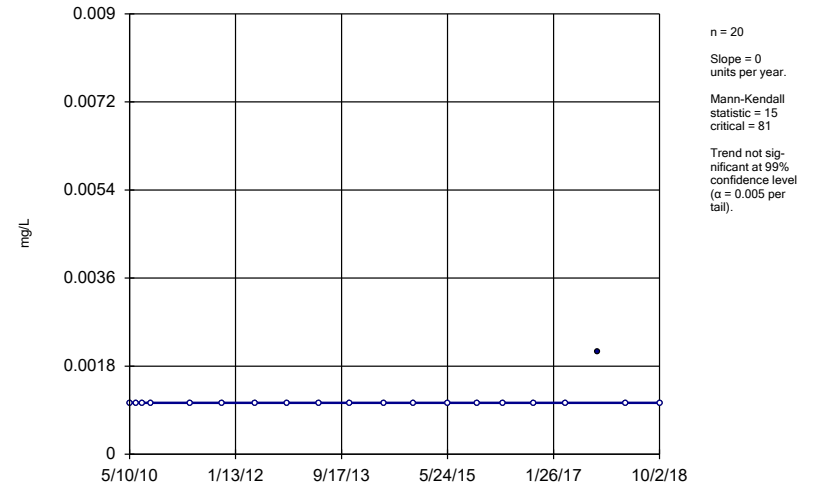
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



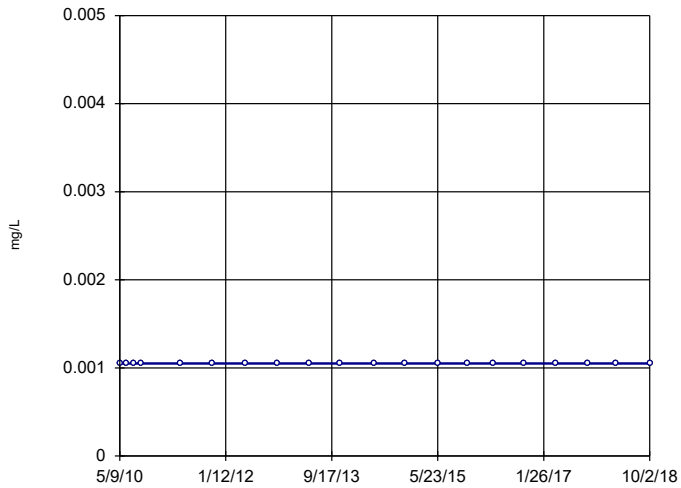
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



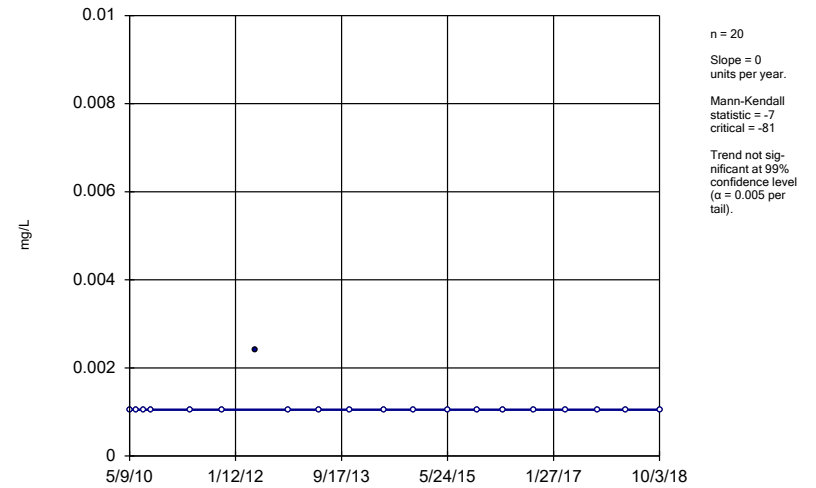
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



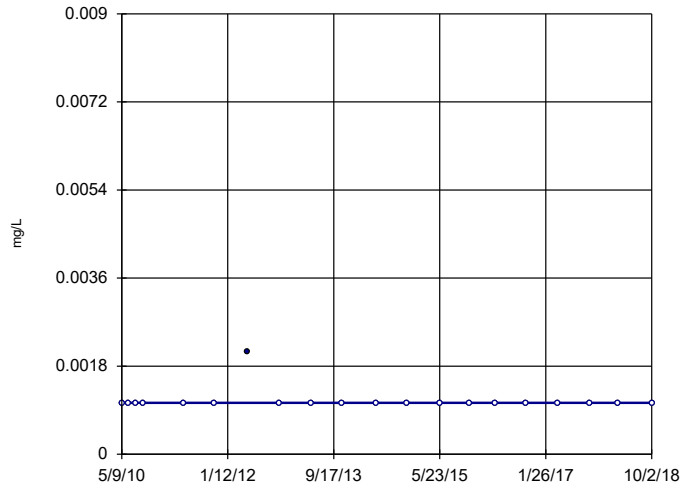
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-13



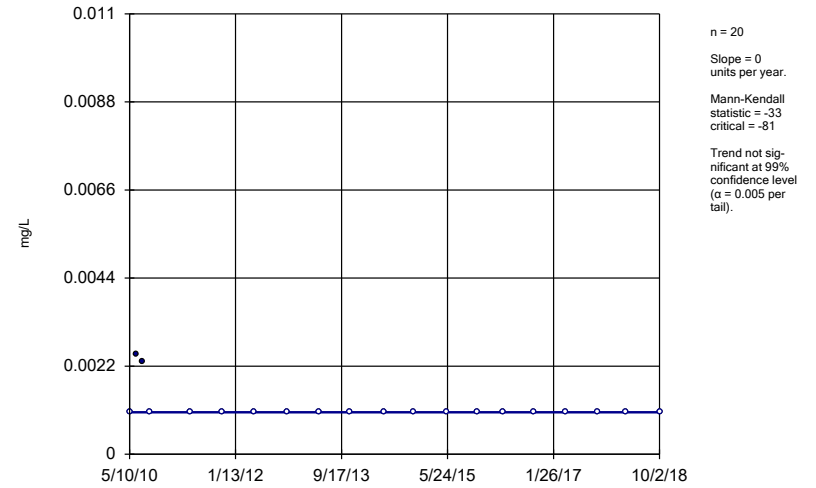
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



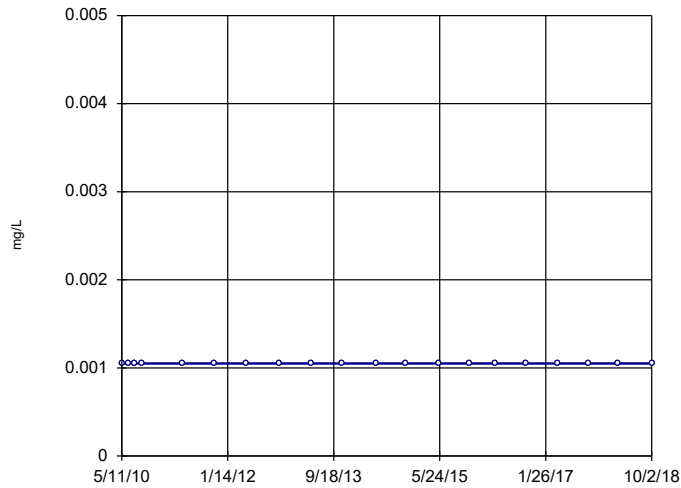
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



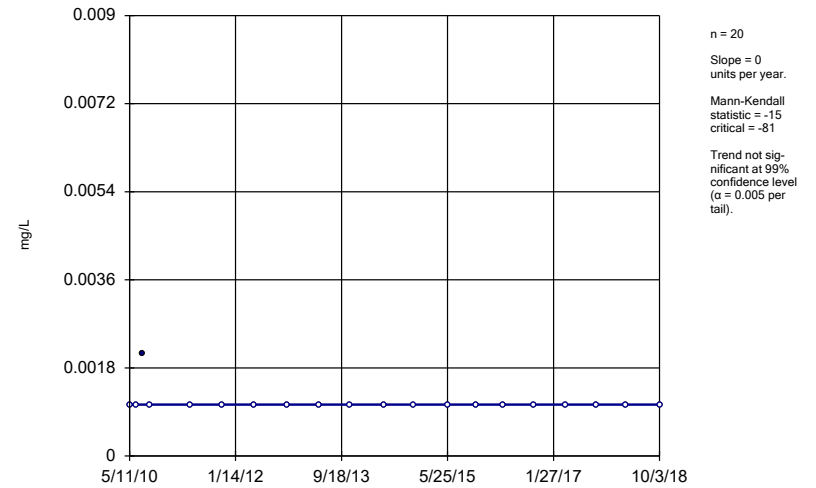
Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-20

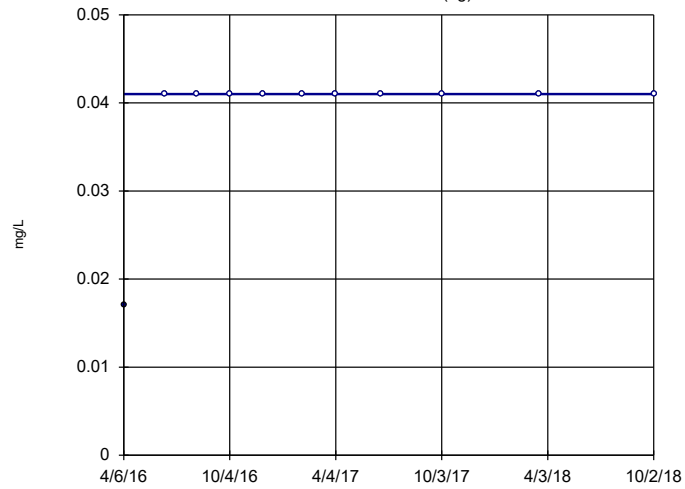


Constituent: Copper Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

GWA-15 (bg)

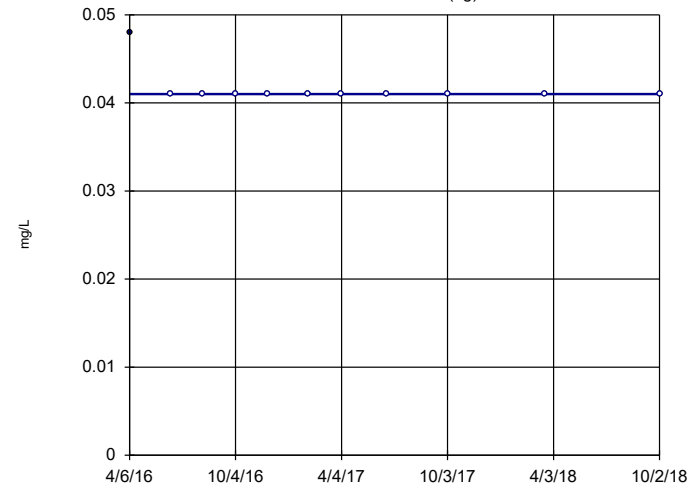


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

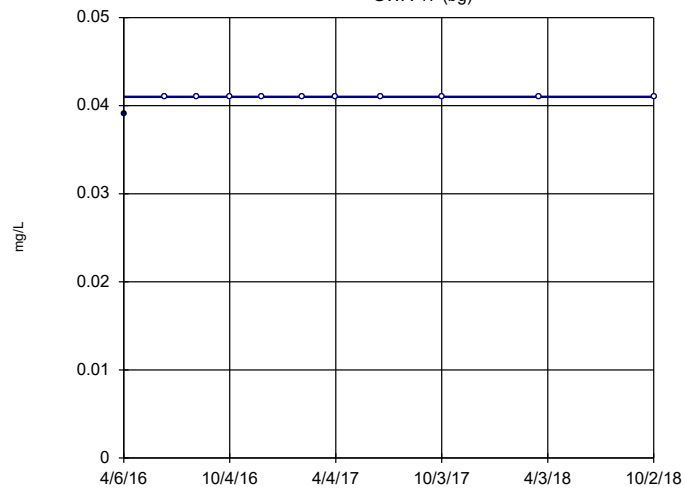


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -10  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

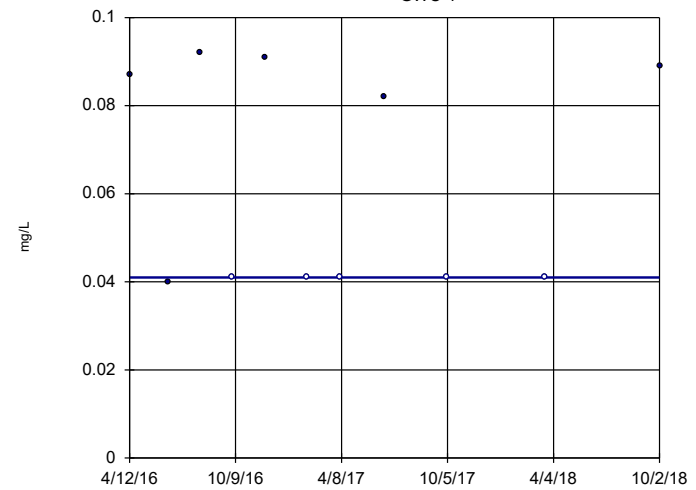


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

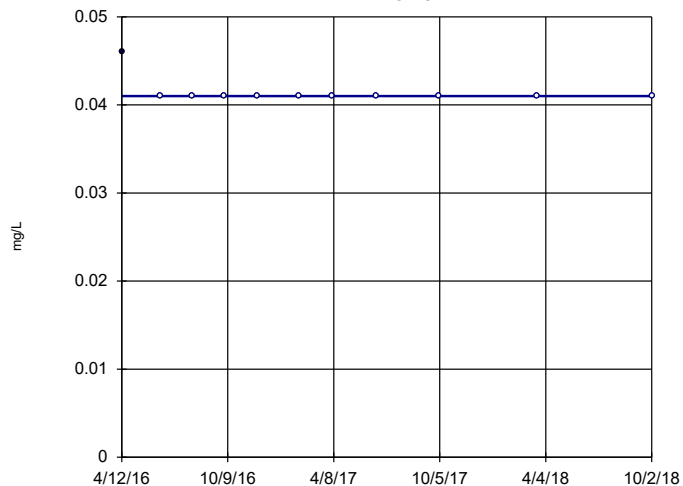


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

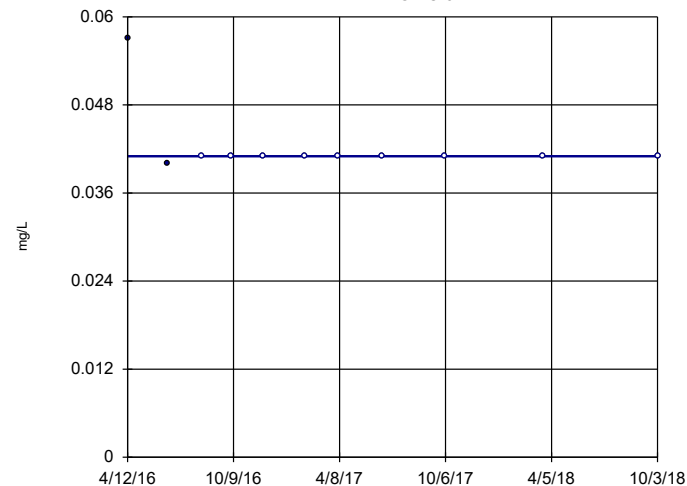


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -10  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

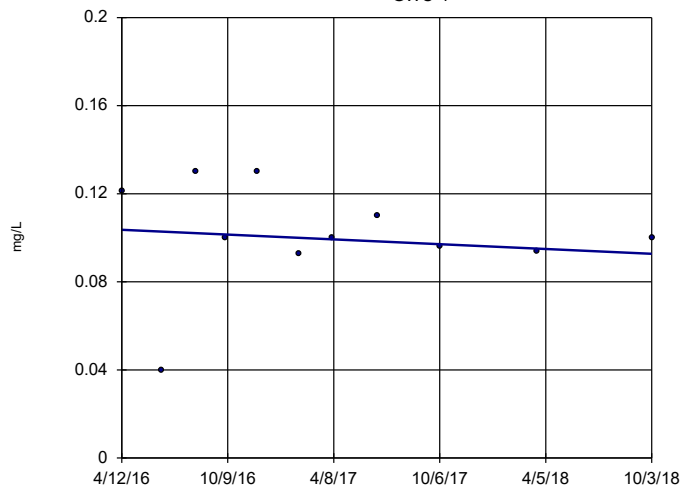


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

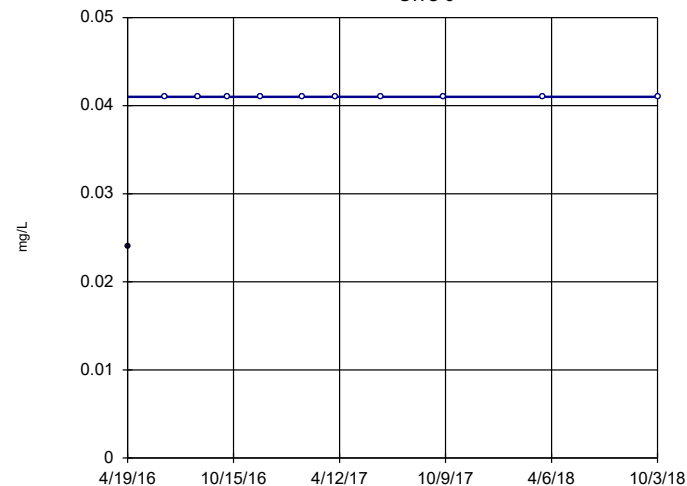


n = 11  
 Slope = -0.004398  
 units per year.  
 Mann-Kendall  
 statistic = -9  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

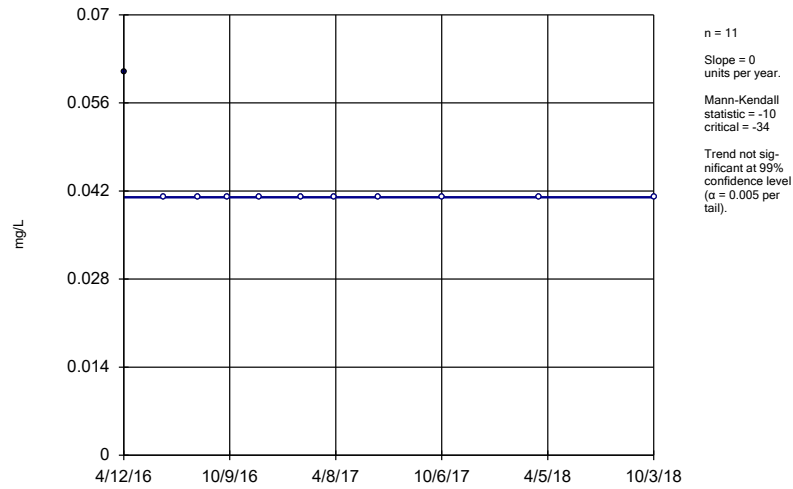
GWC-5



n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 10  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

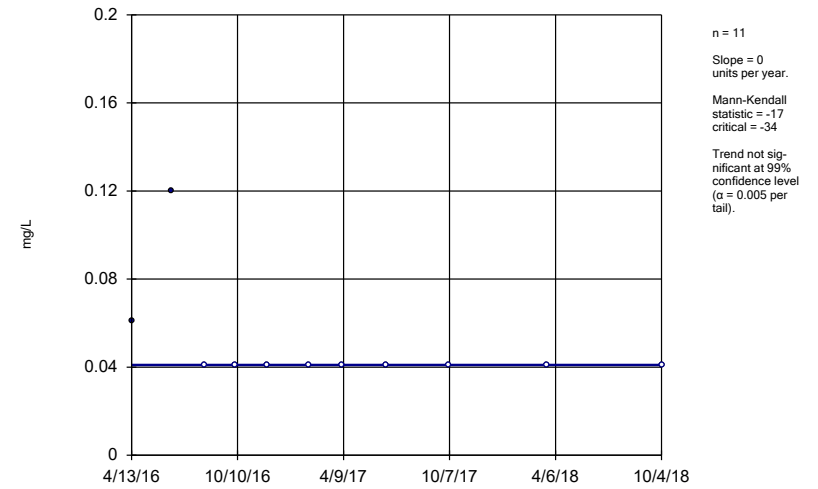
Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-6



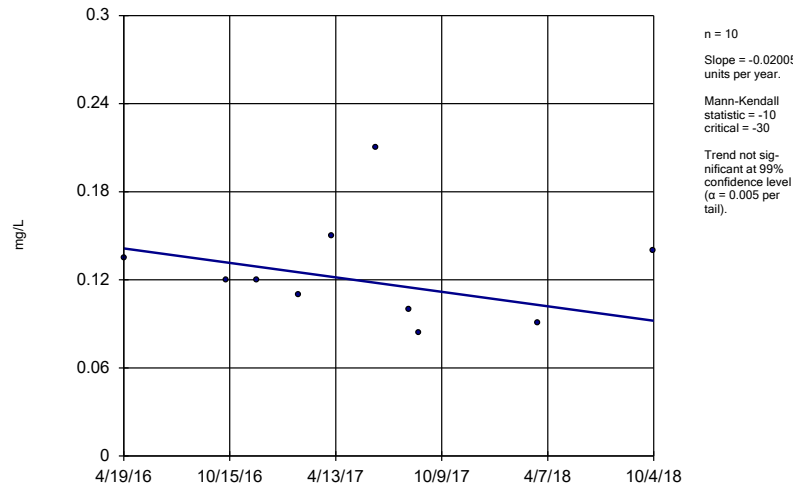
Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-7



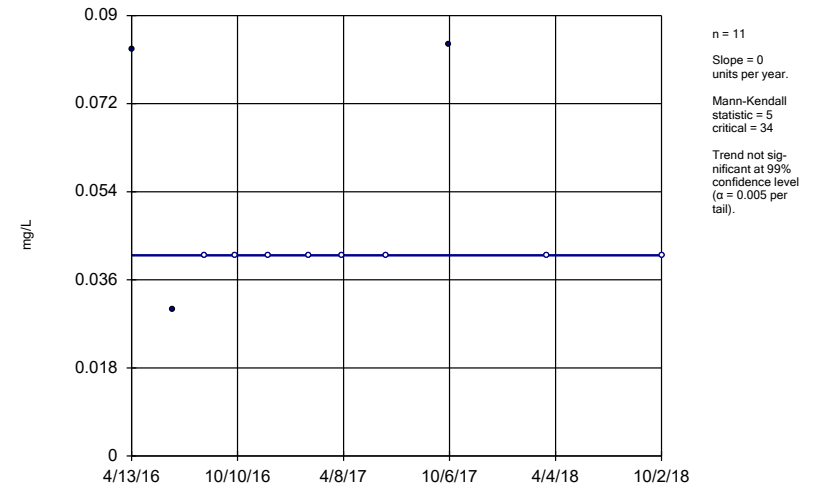
Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-8A



Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

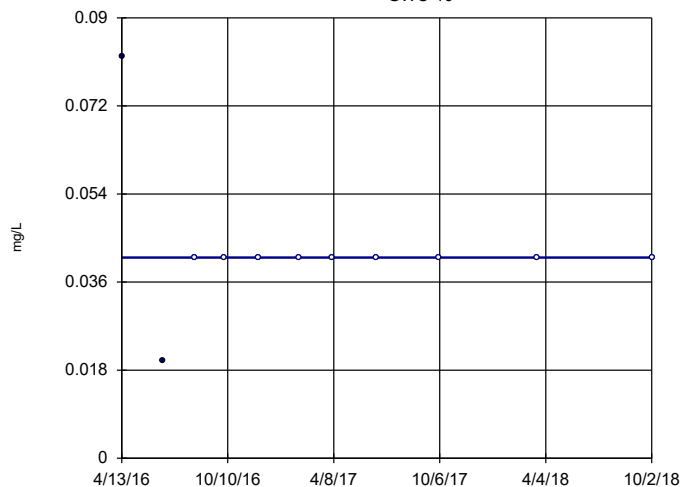
### Sen's Slope Estimator GWC-9



Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10

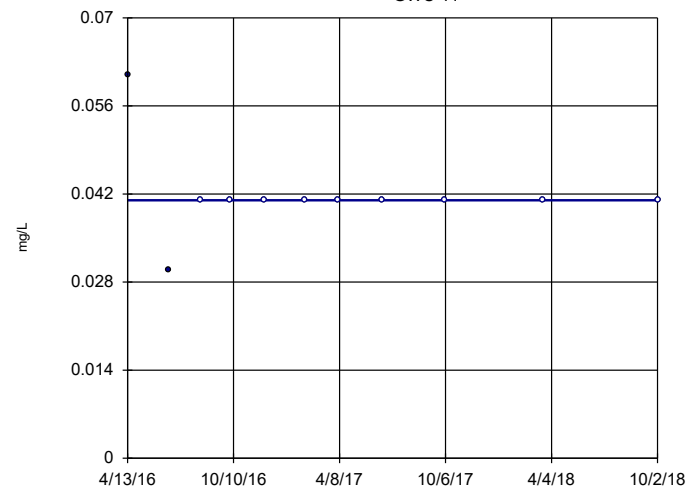


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-11

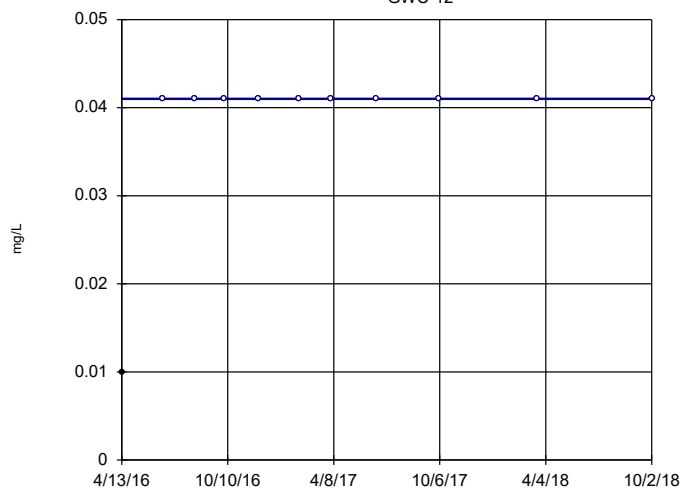


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -1  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-12

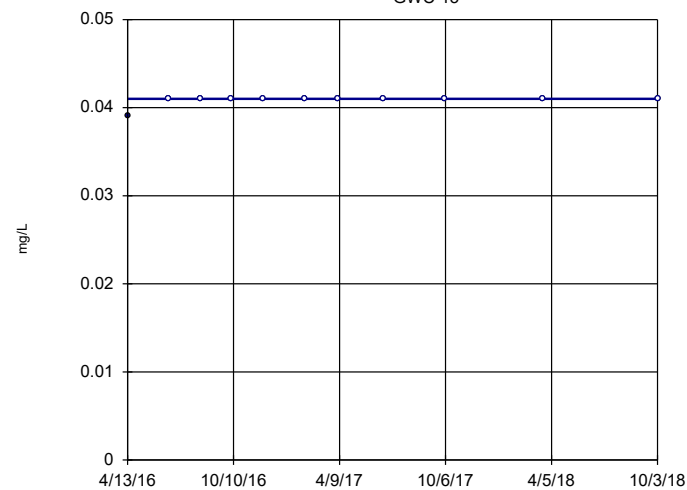


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-13

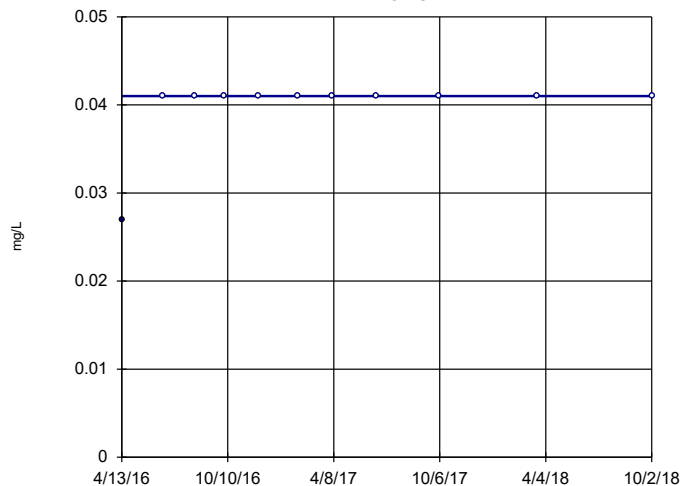


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

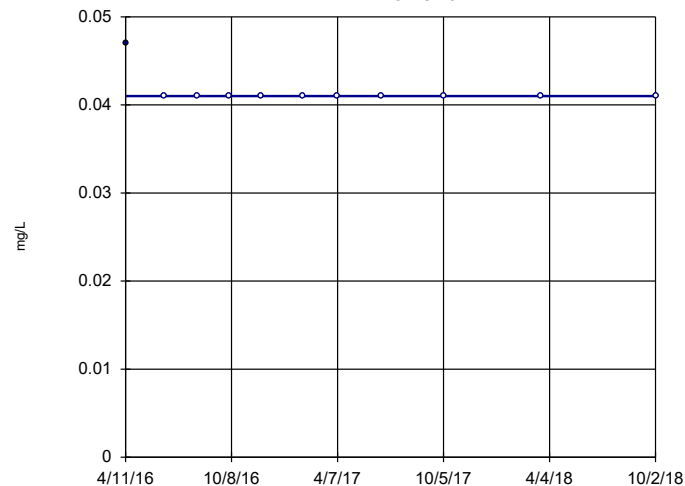


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

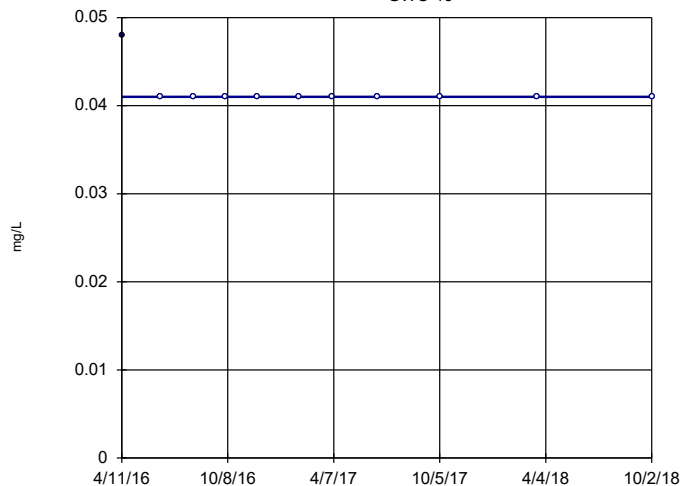


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -10  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

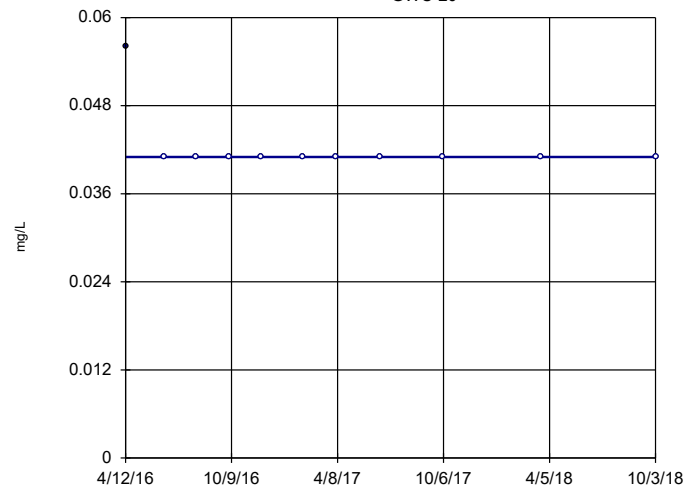


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -10  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

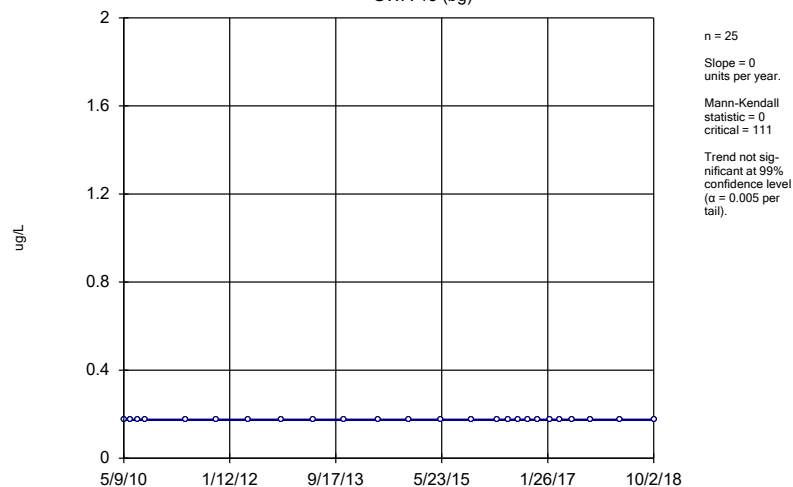
GWC-20



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -10  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

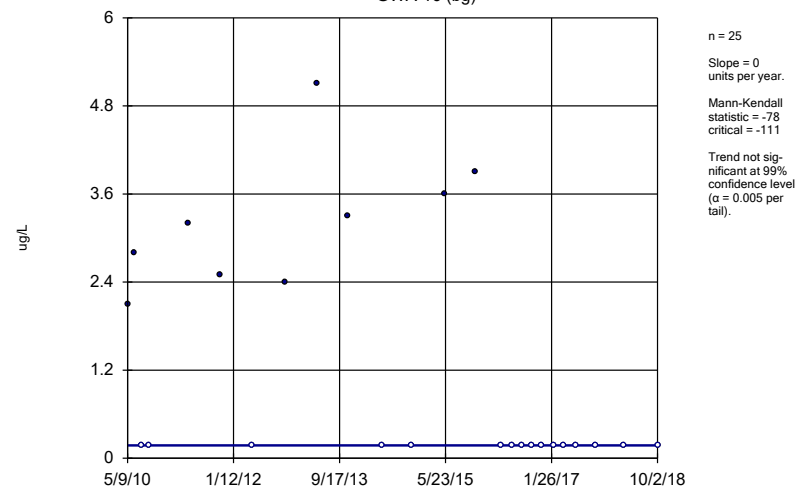
Constituent: Fluoride Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-15 (bg)



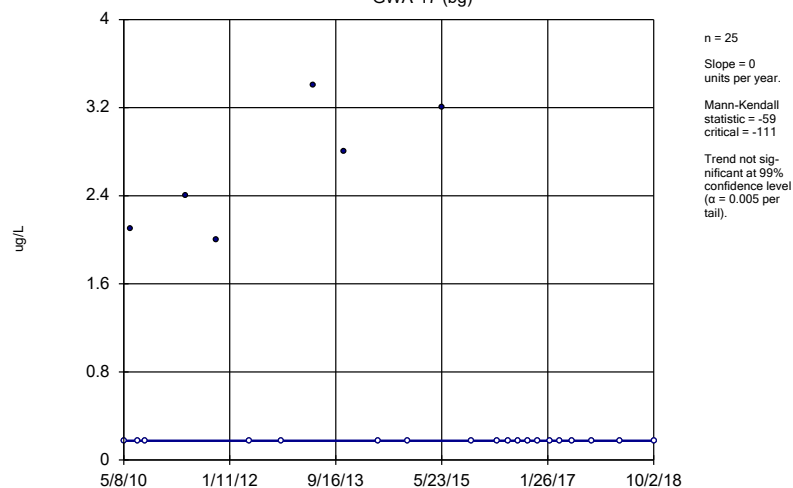
Constituent: Lead, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-16 (bg)



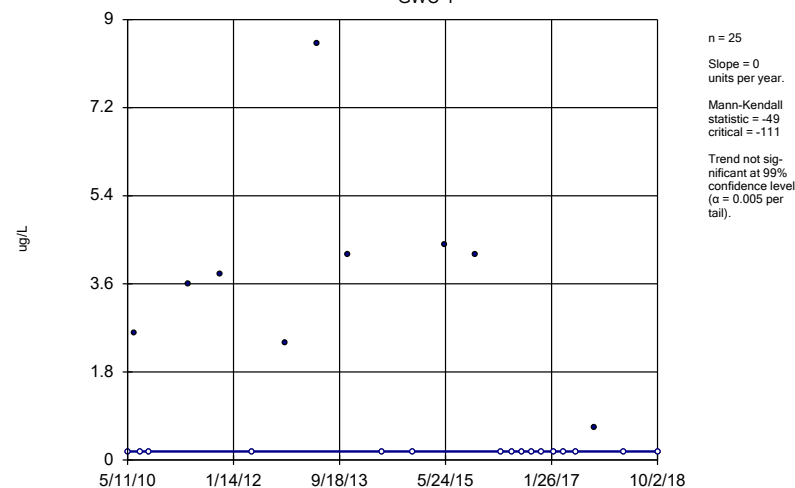
Constituent: Lead, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWA-17 (bg)



Constituent: Lead, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

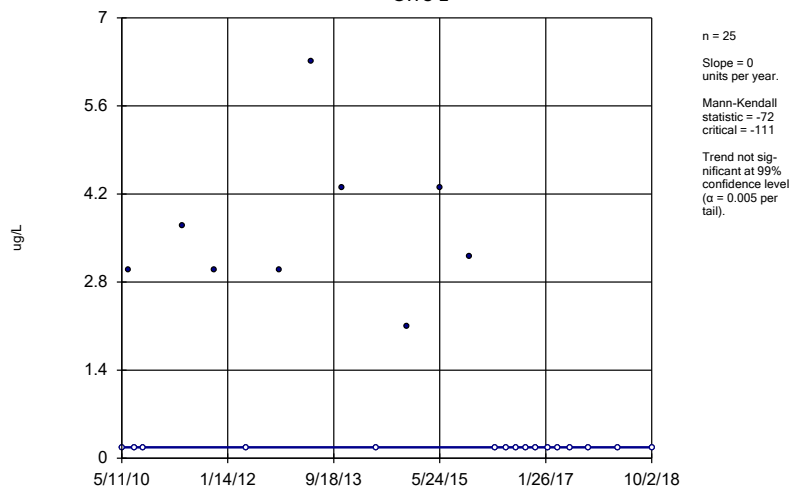
Sen's Slope Estimator  
GWC-1



Constituent: Lead, Total Analysis Run 4/23/2019 4:19 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

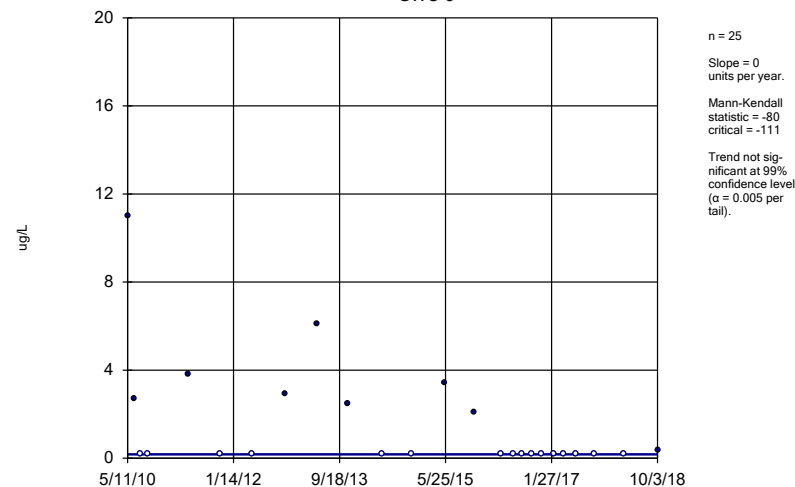
GWC-2



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

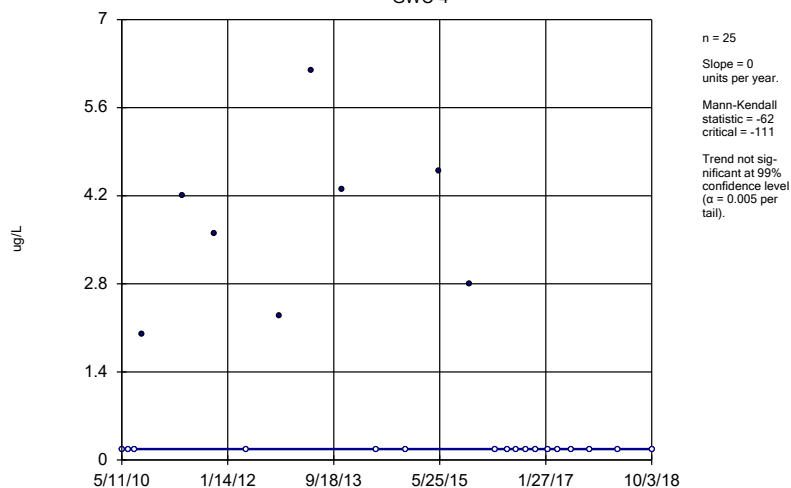
GWC-3



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

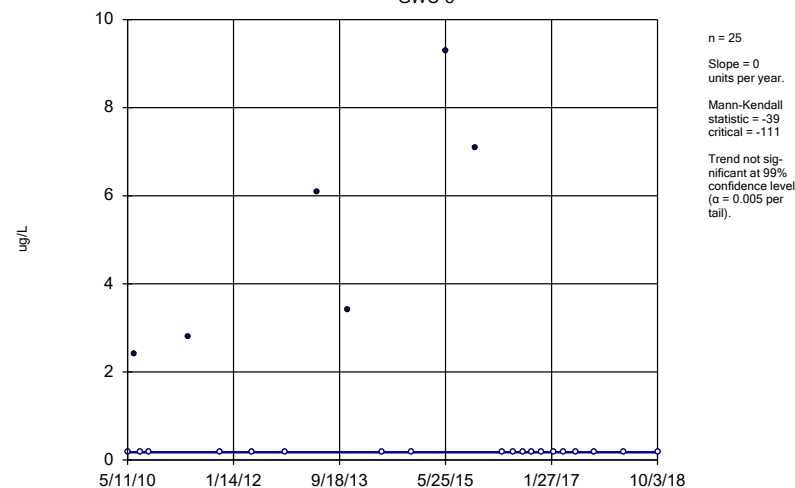
GWC-4



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

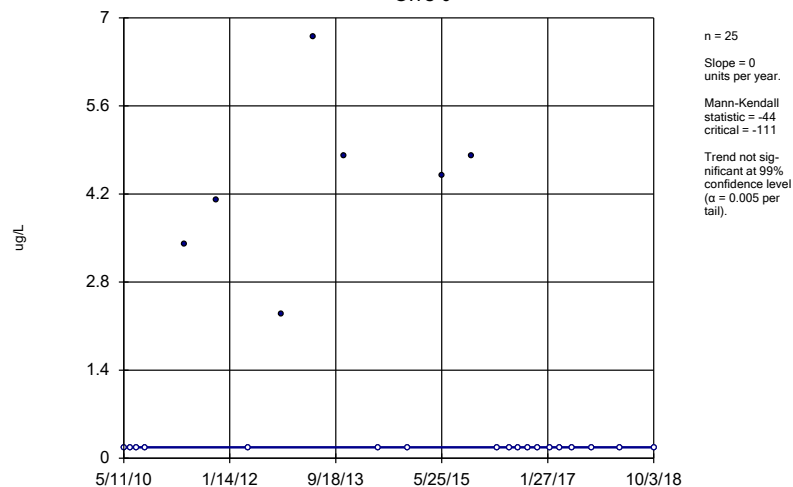


Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

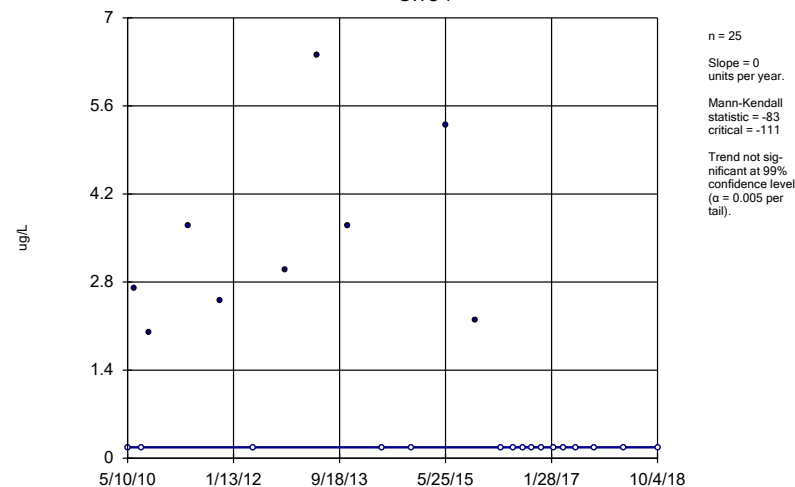
GWC-6



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

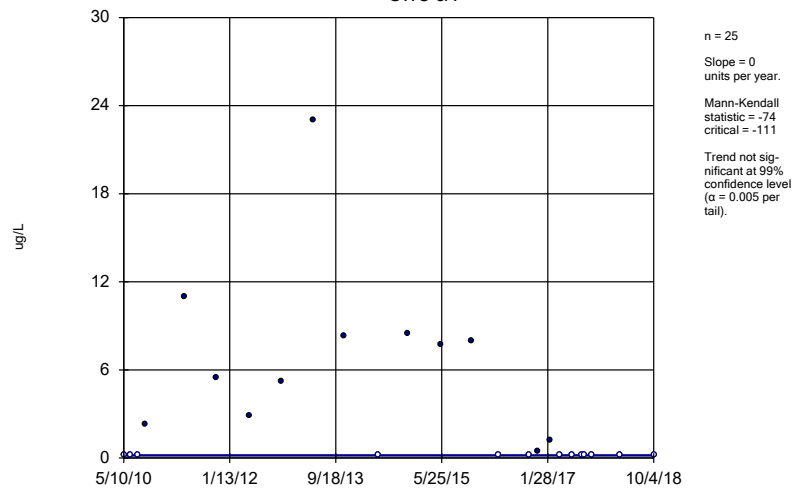
GWC-7



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

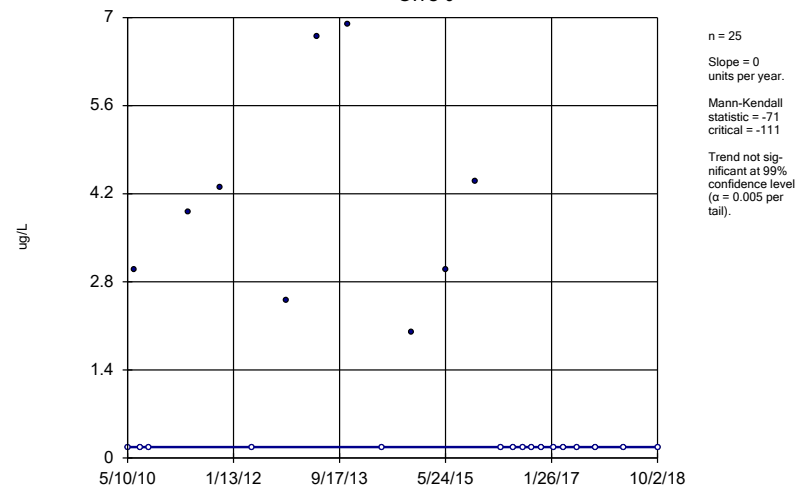
GWC-8A



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

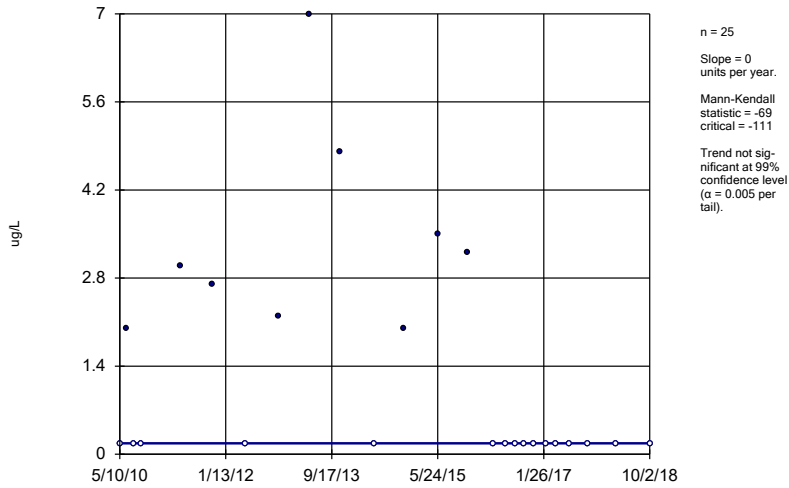
### Sen's Slope Estimator

GWC-9



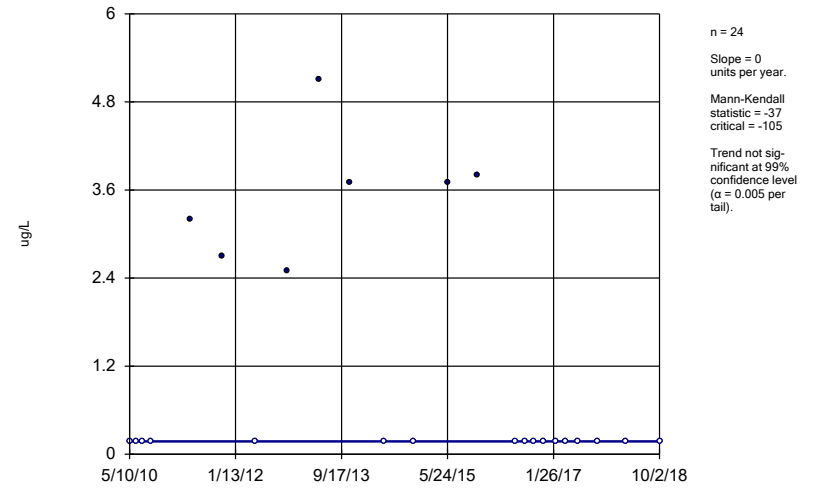
Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-10



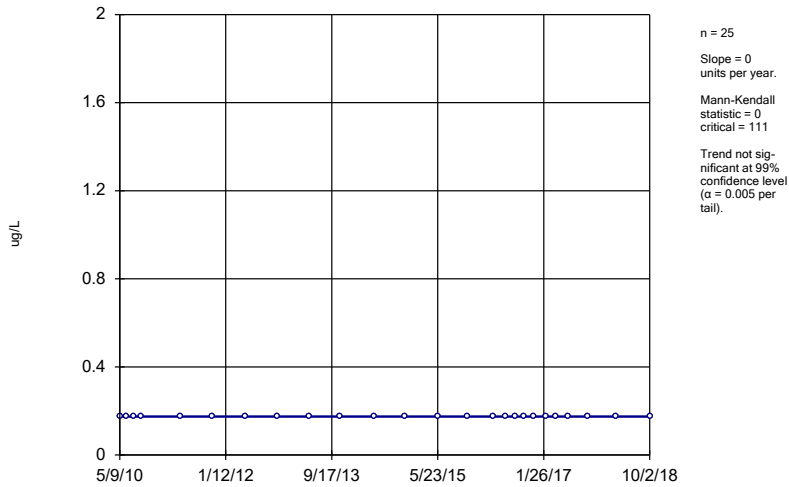
Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



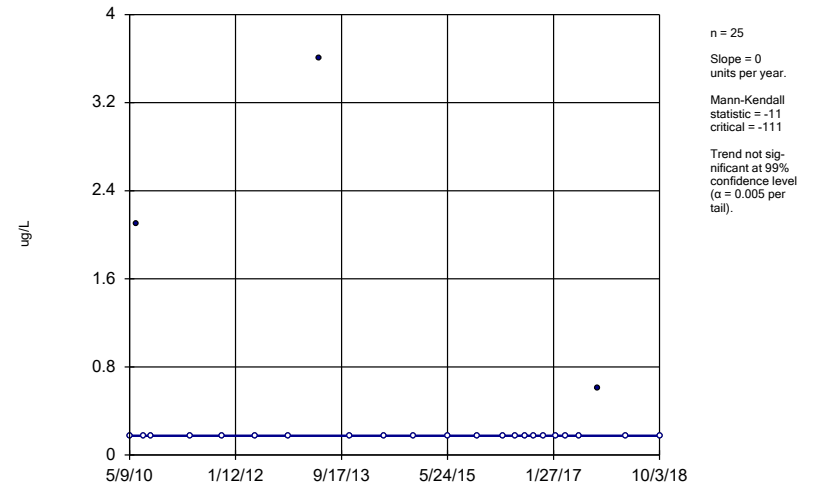
Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

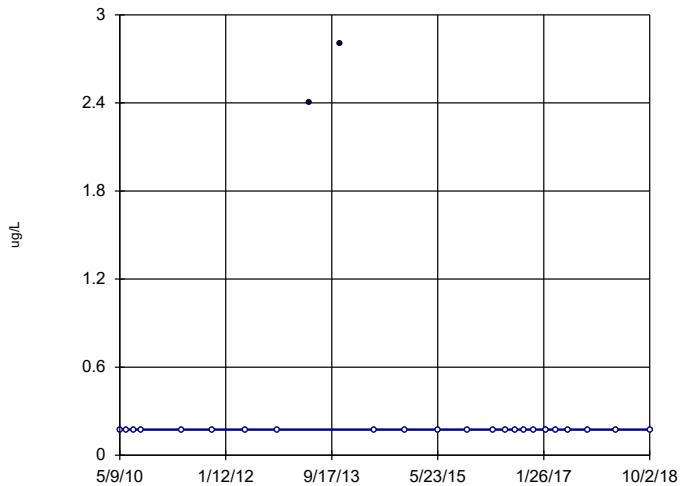
Sen's Slope Estimator  
GWC-13



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

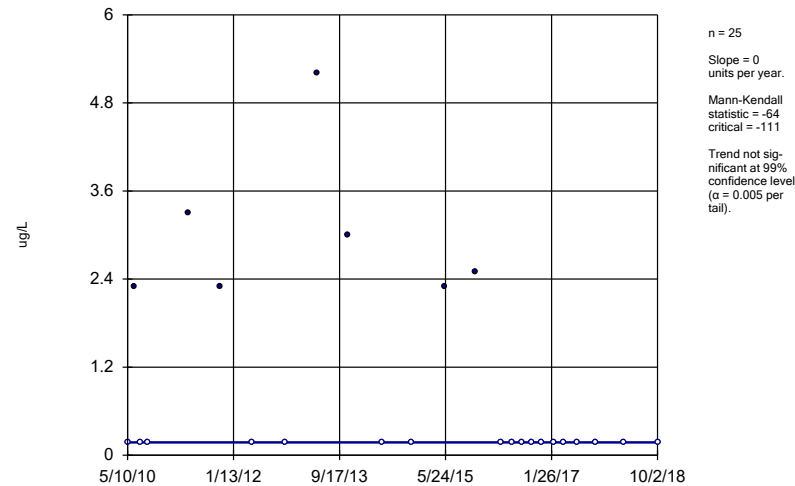
GWC-14



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

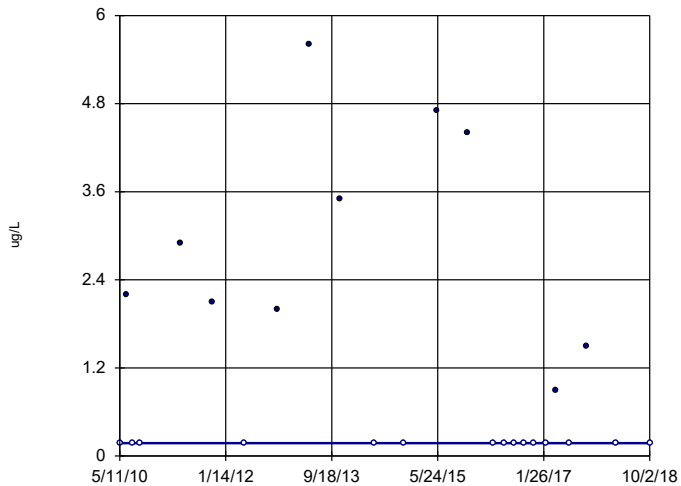
GWC-18



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

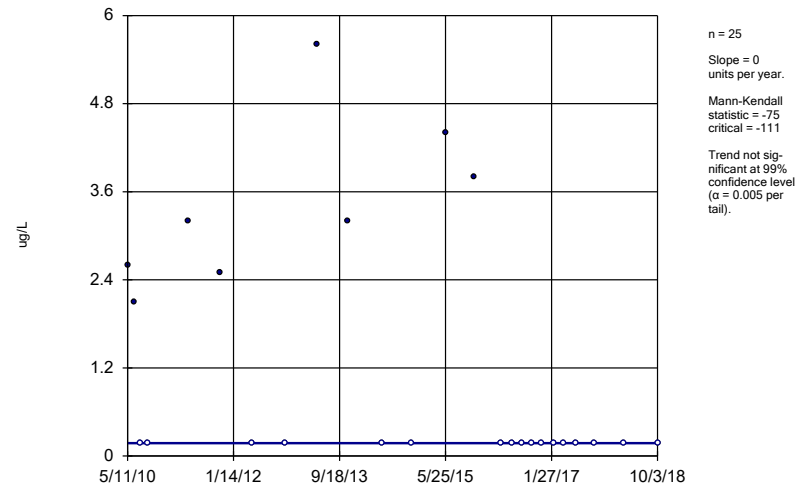
GWC-19



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

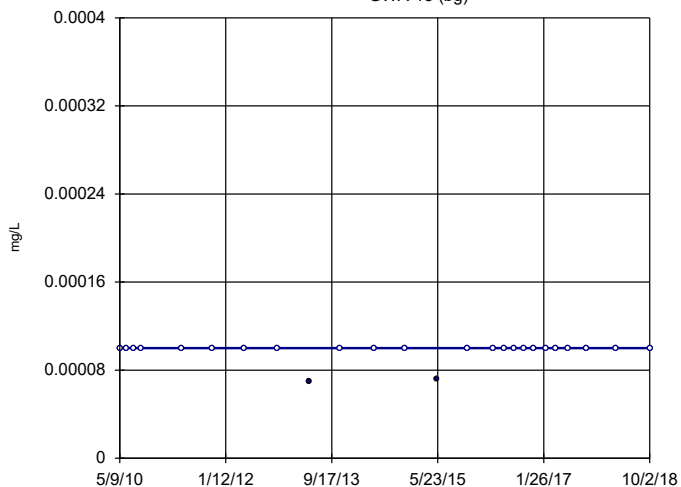
GWC-20



Constituent: Lead, Total Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

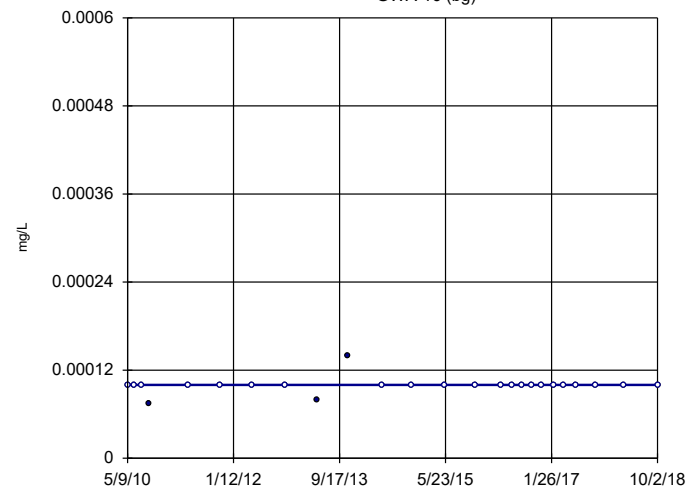
GWA-15 (bg)



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

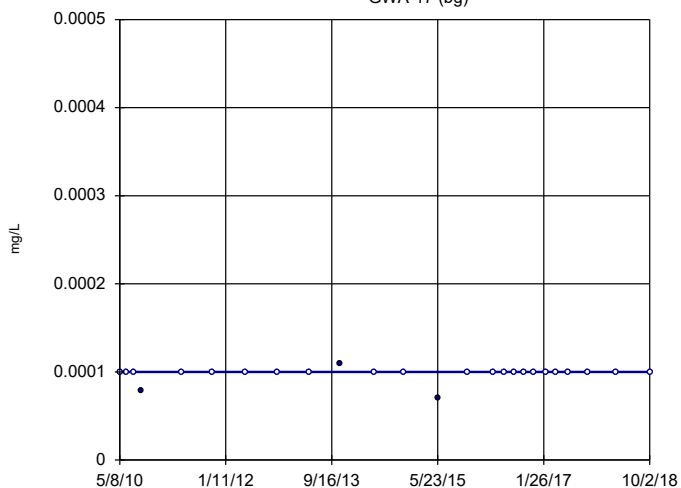
GWA-16 (bg)



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

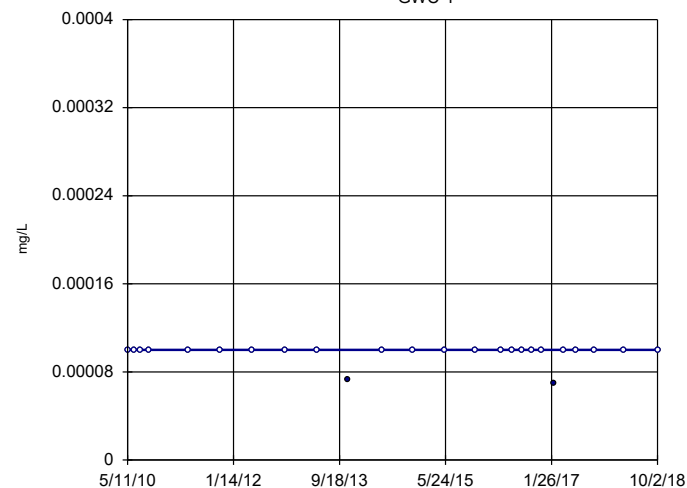
GWA-17 (bg)



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

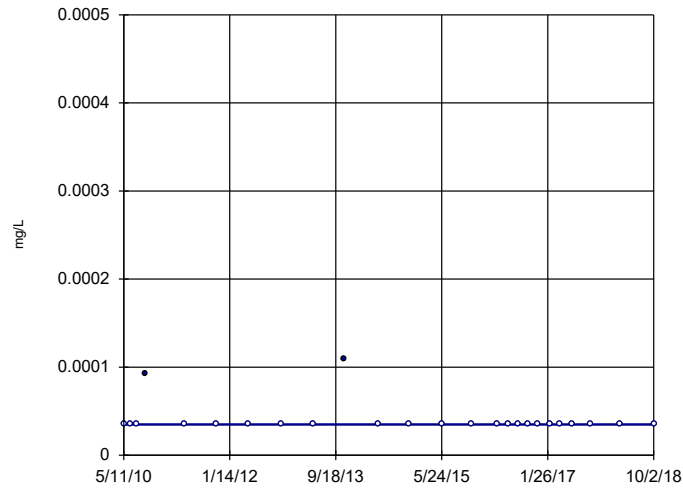
### Sen's Slope Estimator

GWC-1



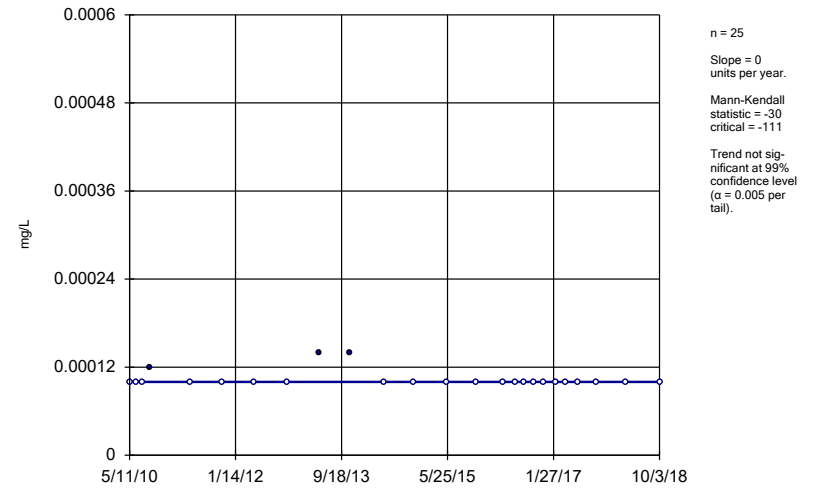
Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-2



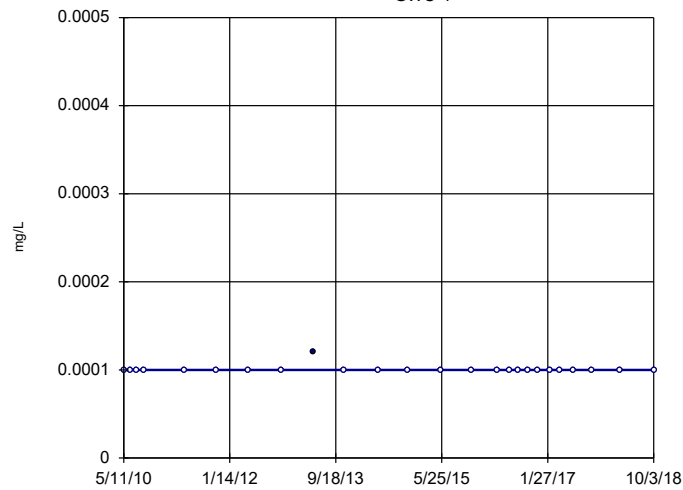
Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-3



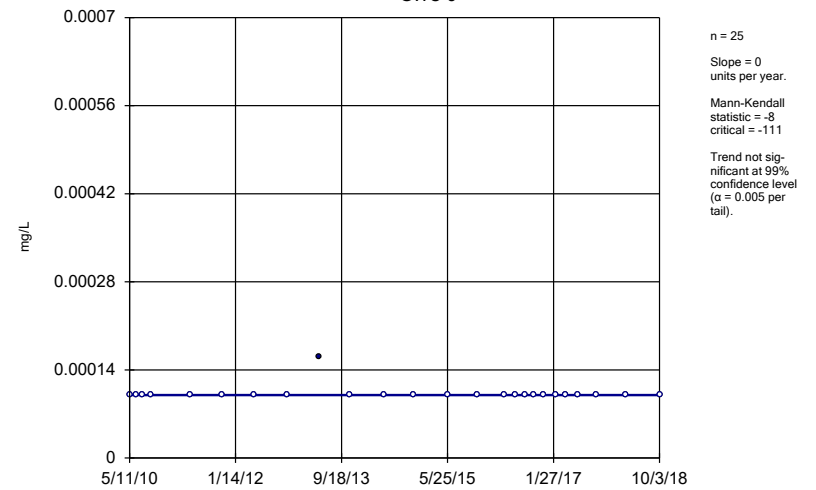
Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-4



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

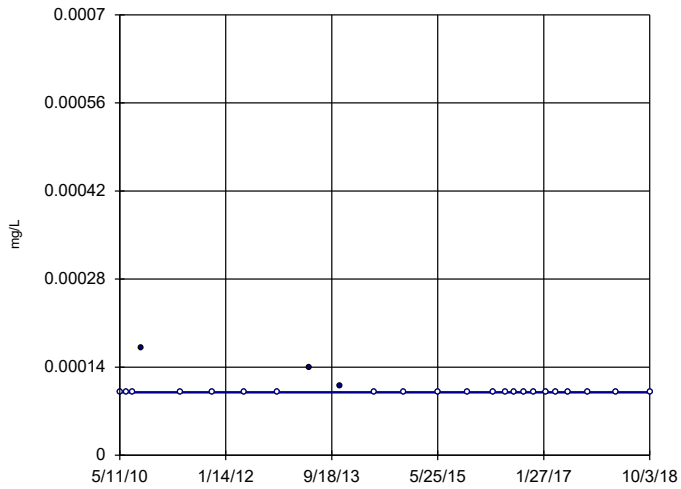
### Sen's Slope Estimator GWC-5



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

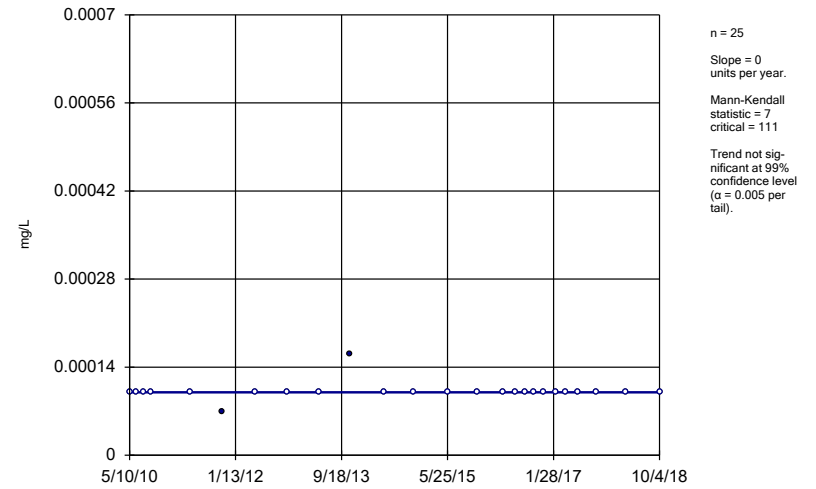
GWC-6



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

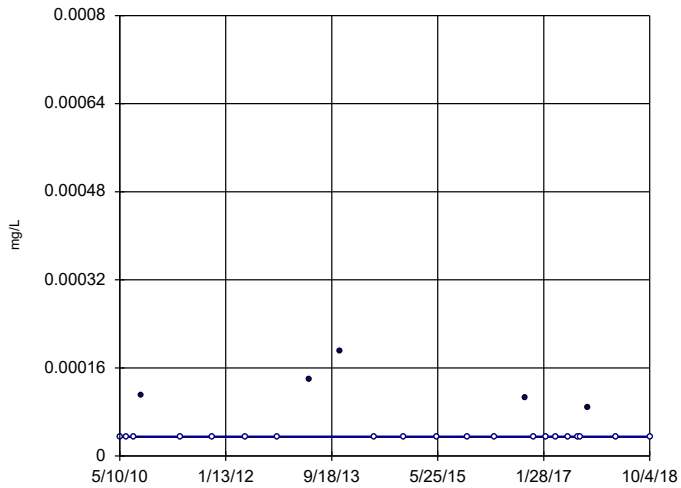
GWC-7



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

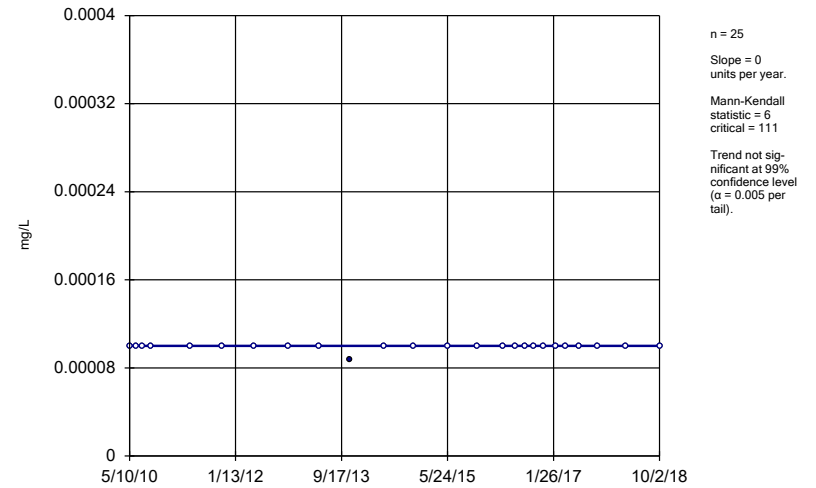
GWC-8A



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

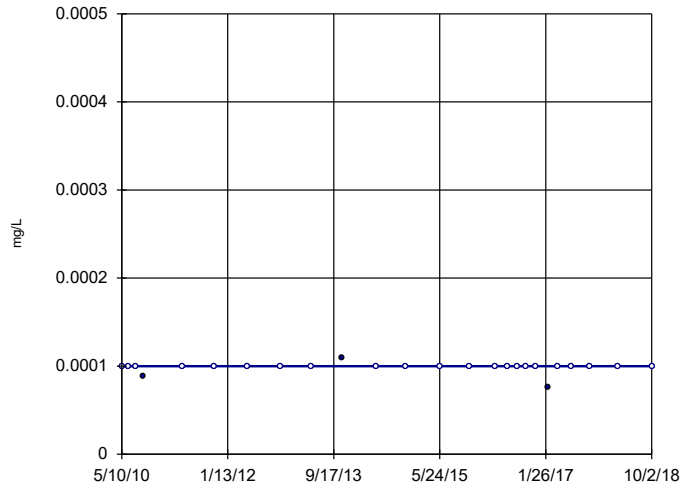
### Sen's Slope Estimator

GWC-9



Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

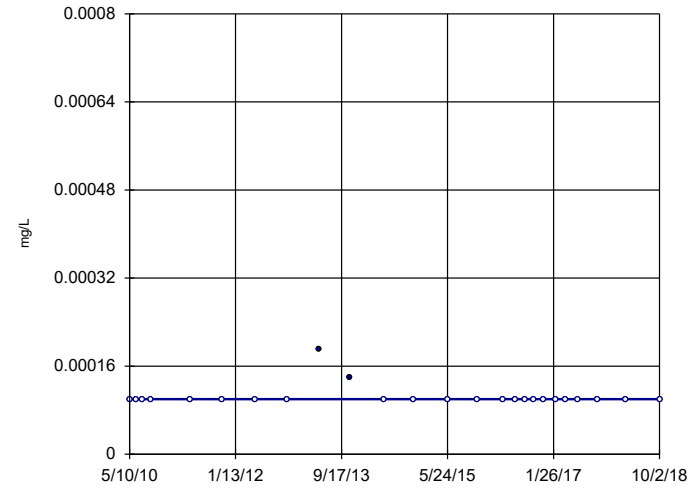
### Sen's Slope Estimator GWC-10



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -3  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

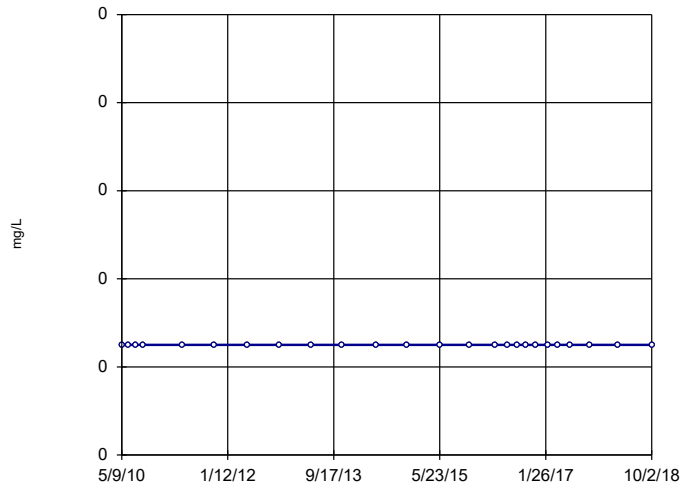
### Sen's Slope Estimator GWC-11



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -15  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

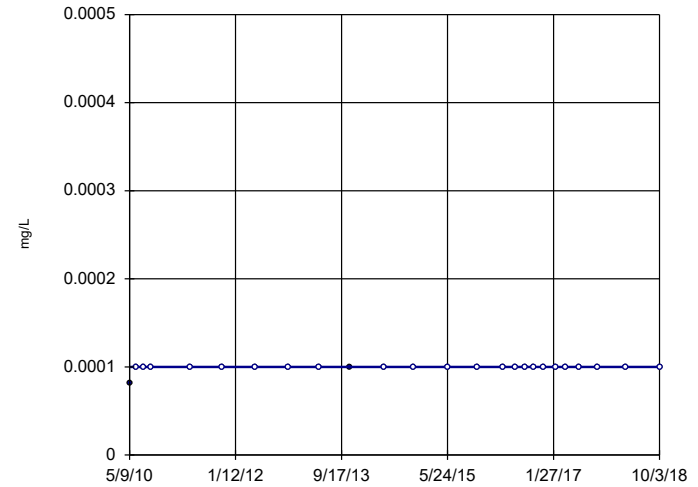
### Sen's Slope Estimator GWC-12



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-13

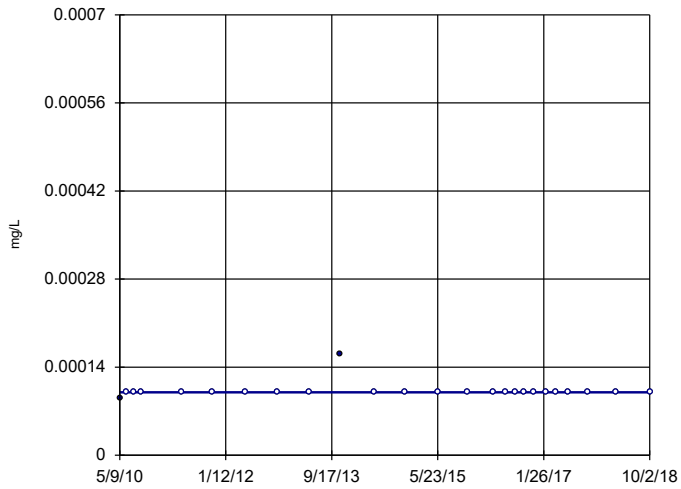


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 24  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



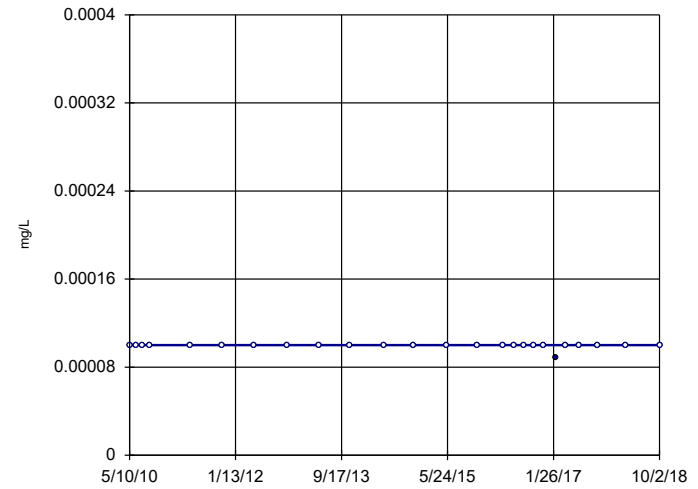
### Sen's Slope Estimator GWC-14



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 17  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

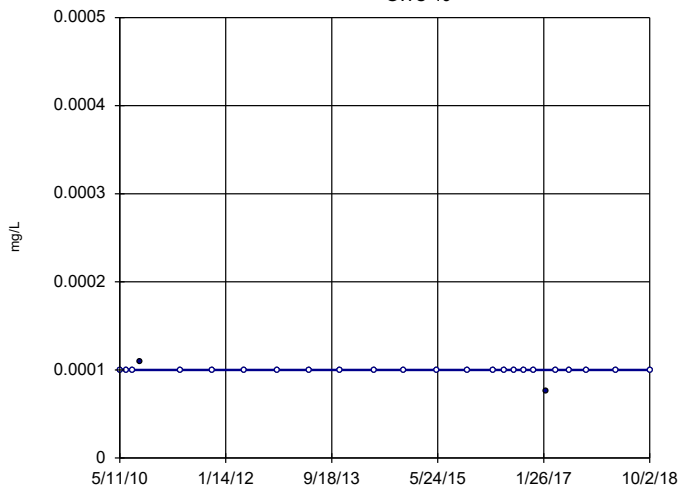
### Sen's Slope Estimator GWC-18



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -14  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

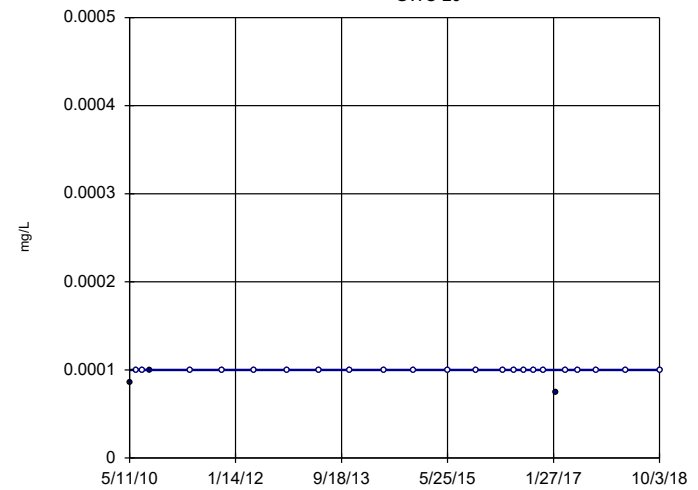
### Sen's Slope Estimator GWC-19



n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -31  
critical = -111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-20

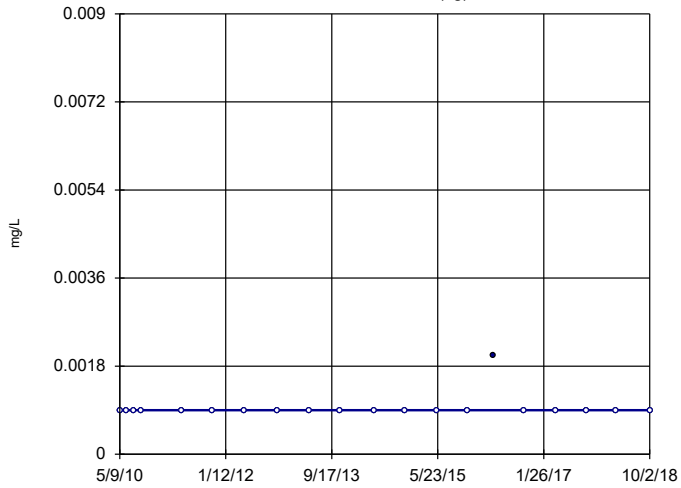


n = 25  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 9  
critical = 111  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Mercury Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

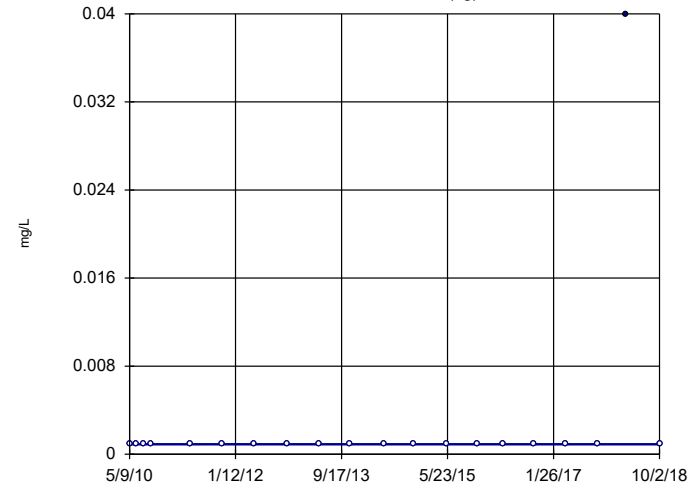


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 9  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

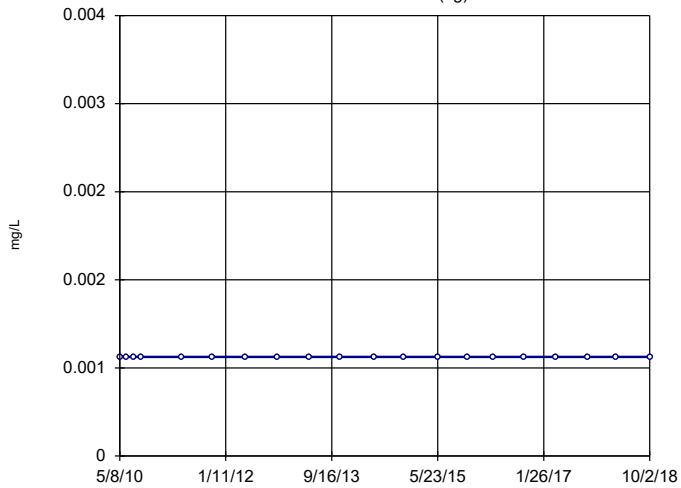


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 17  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

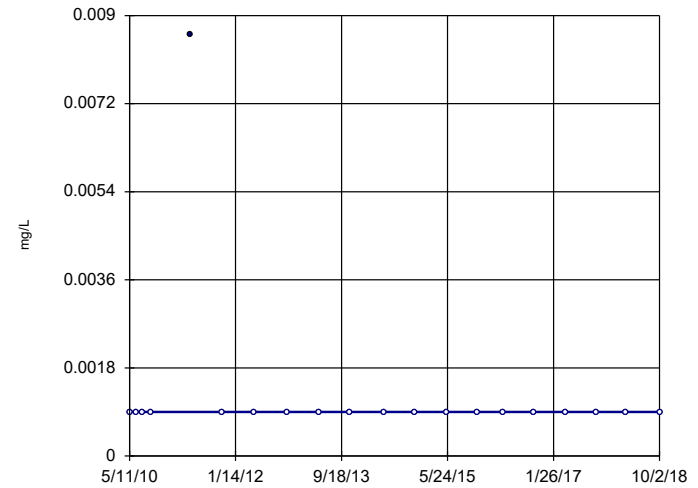


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

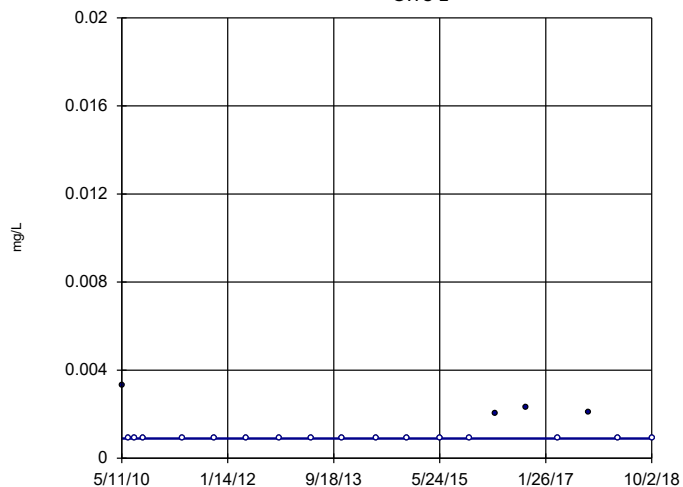


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -11  
critical = -81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

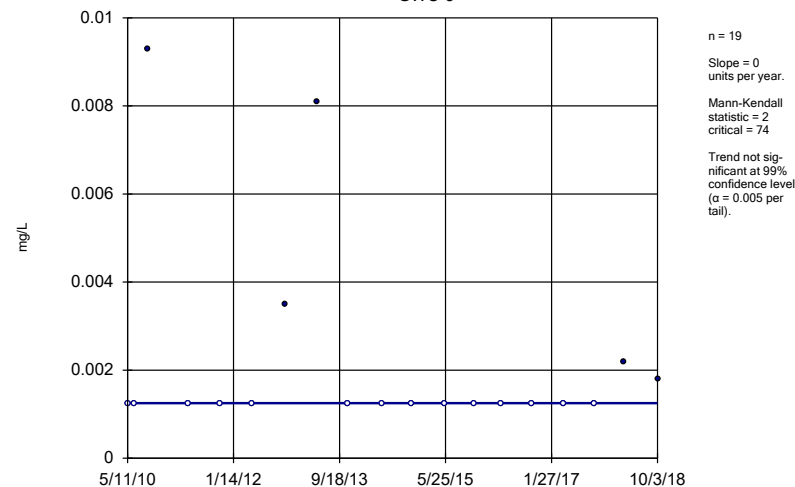
GWC-2



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

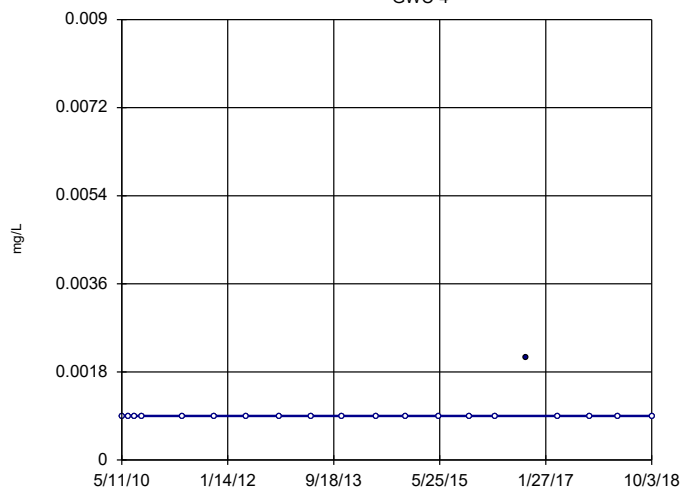
GWC-3



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

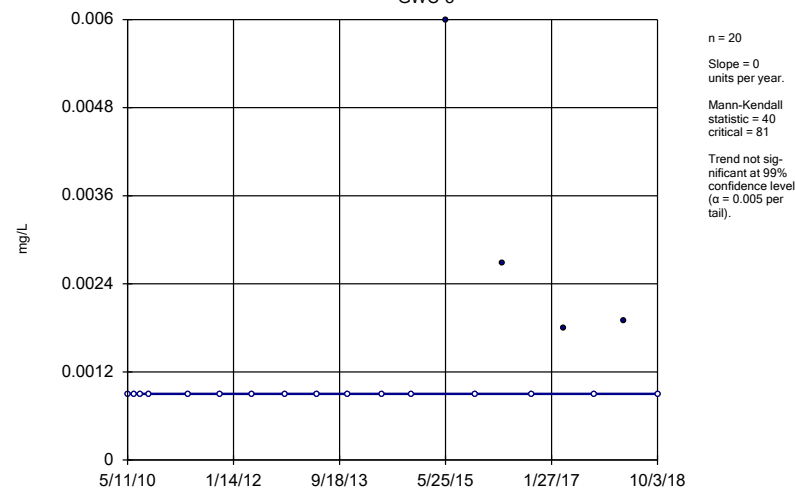
GWC-4



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

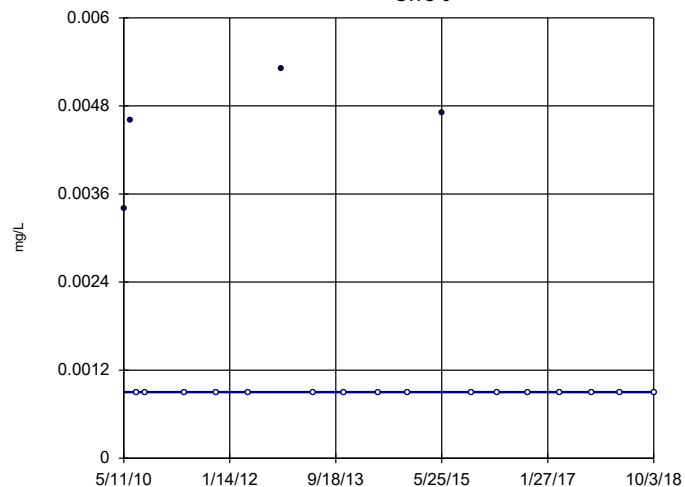
GWC-5



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

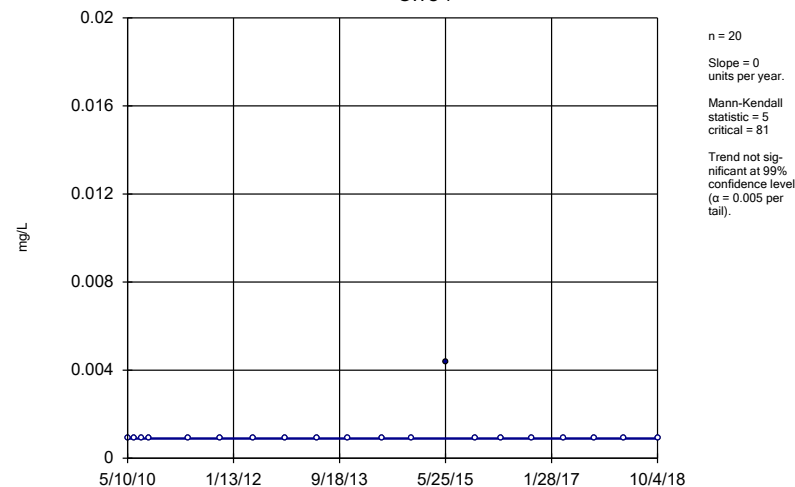
GWC-6



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

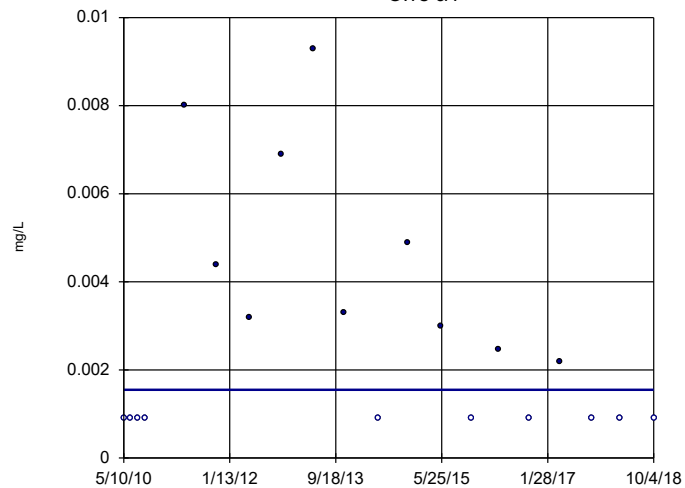
GWC-7



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

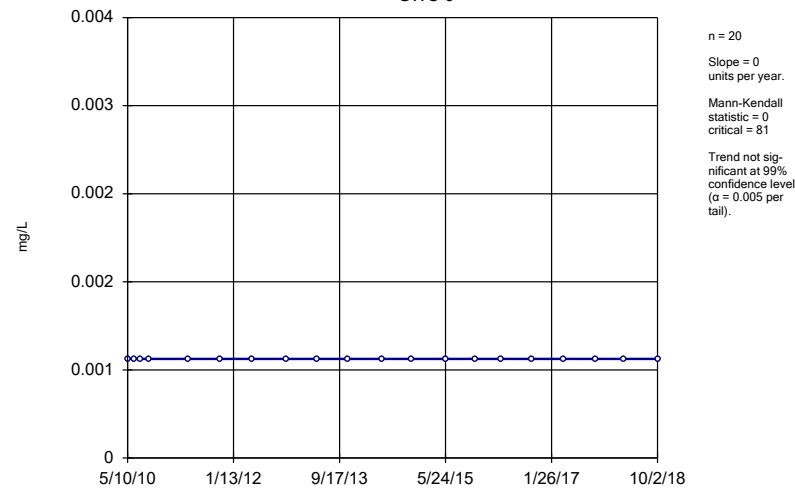
GWC-8A



Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

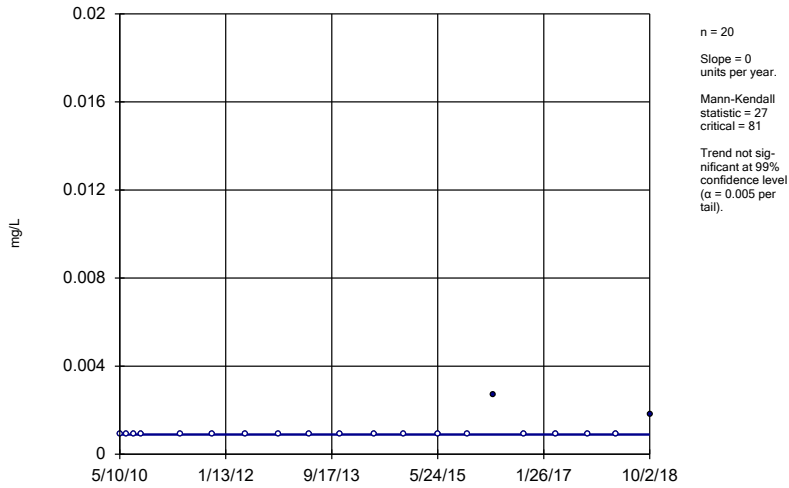
### Sen's Slope Estimator

GWC-9



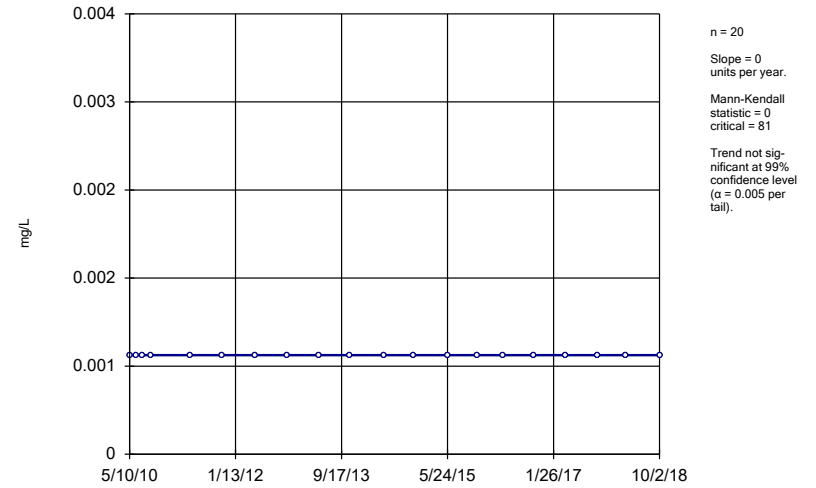
Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-10



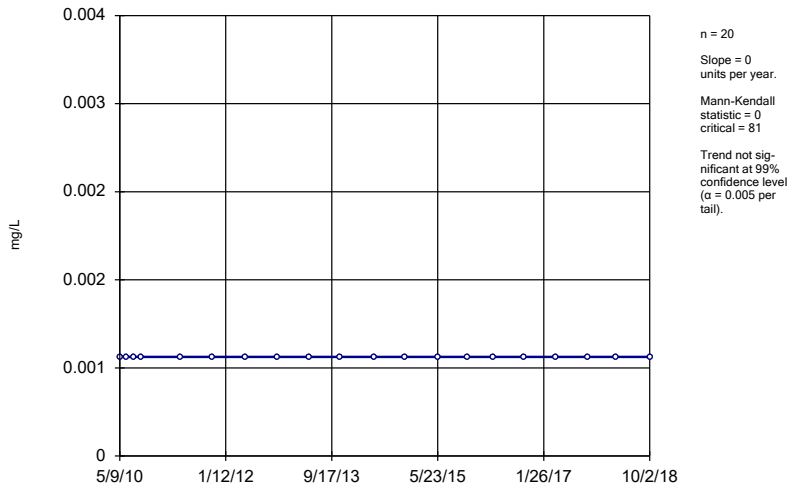
Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



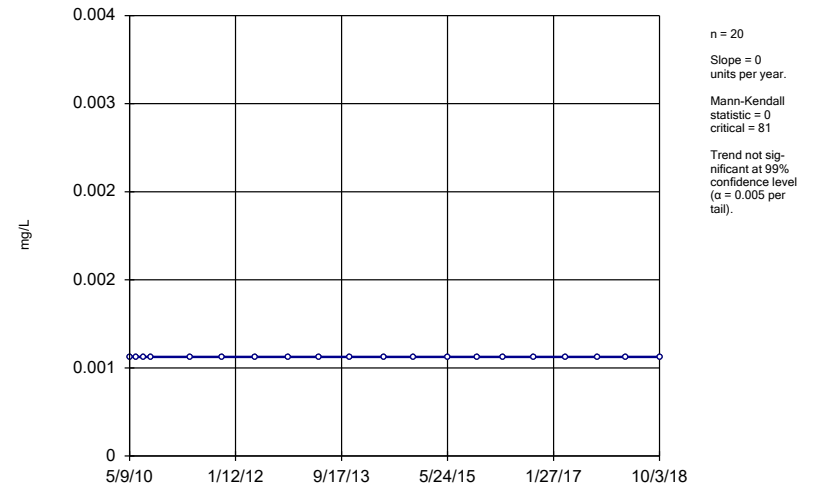
Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



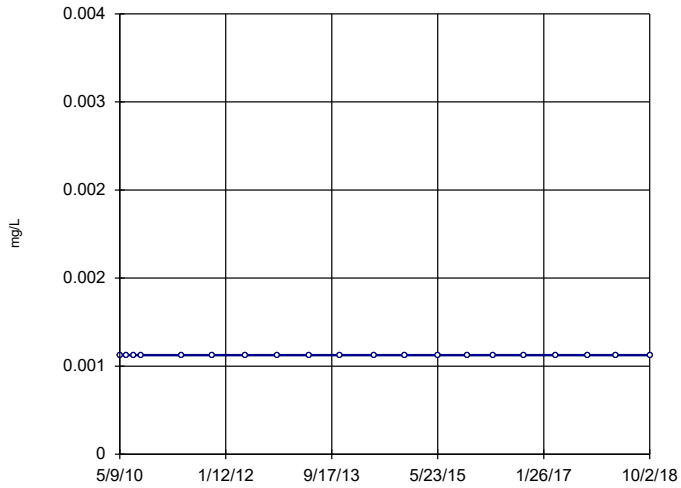
Constituent: Nickel Analysis Run 4/23/2019 4:20 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13



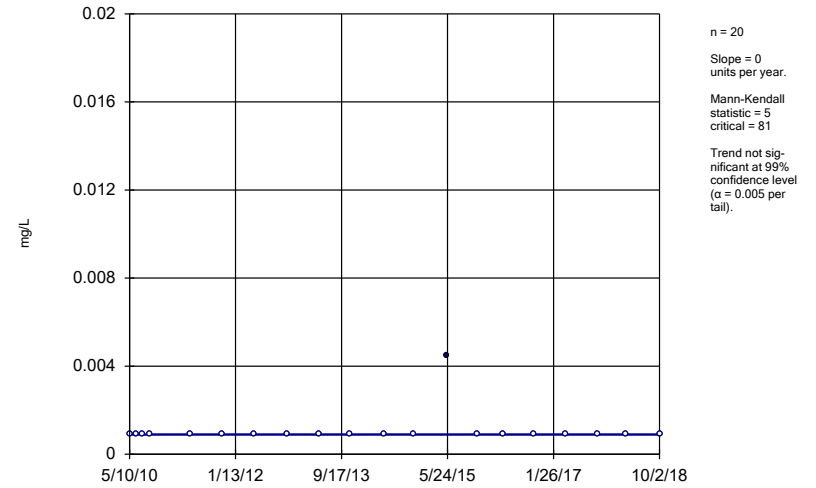
Constituent: Nickel Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



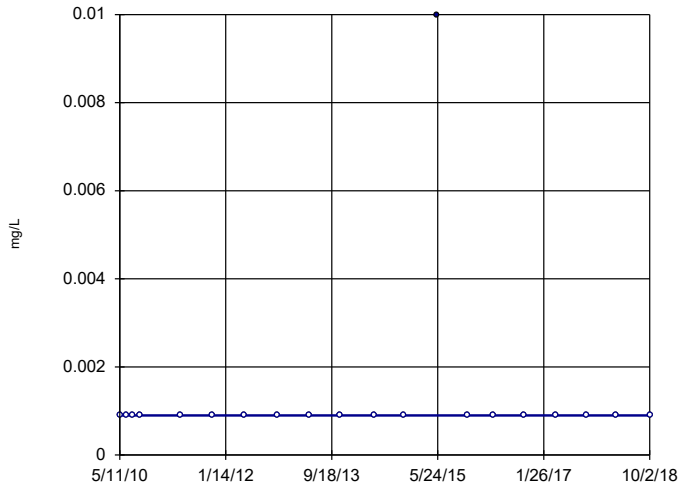
Constituent: Nickel Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



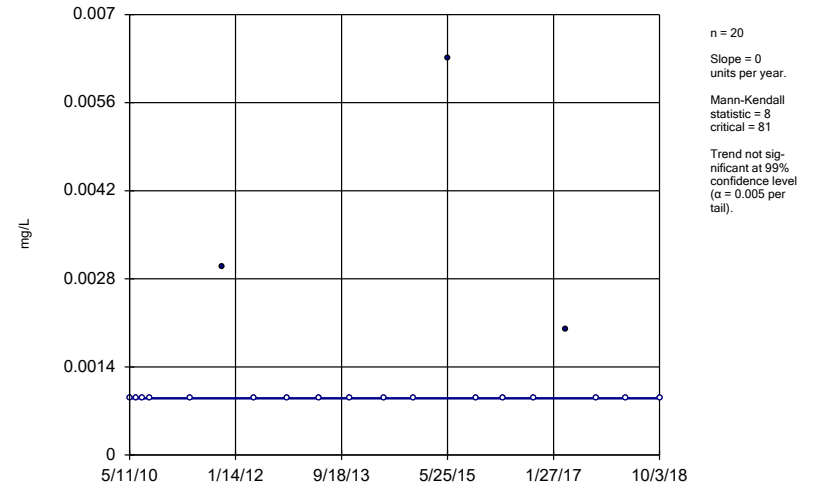
Constituent: Nickel Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Nickel Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

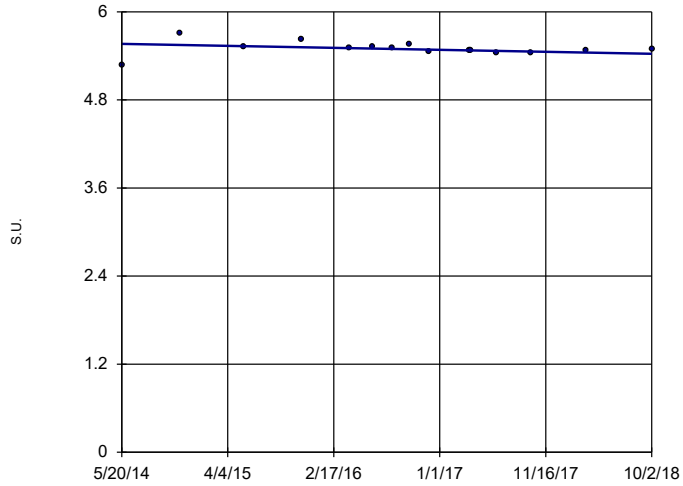
### Sen's Slope Estimator GWC-20



Constituent: Nickel Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

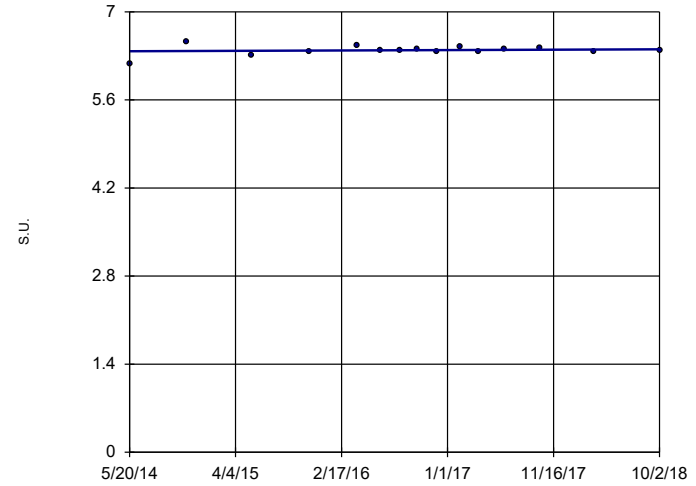


n = 15  
 Slope = -0.0308 units per year.  
 Mann-Kendall statistic = -37  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

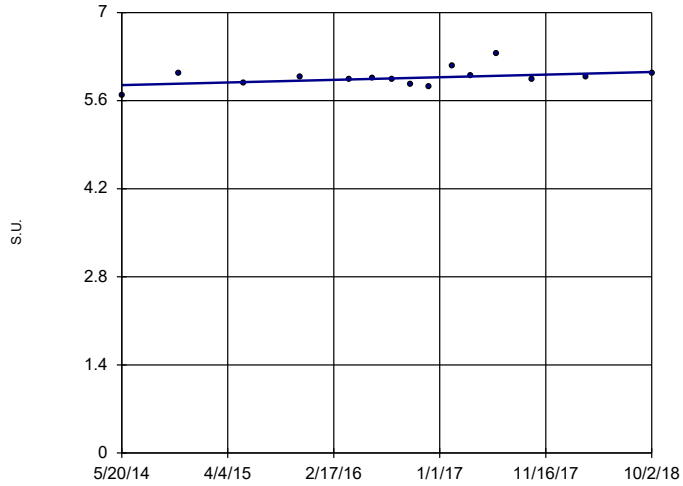


n = 15  
 Slope = 0.007157 units per year.  
 Mann-Kendall statistic = 10  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

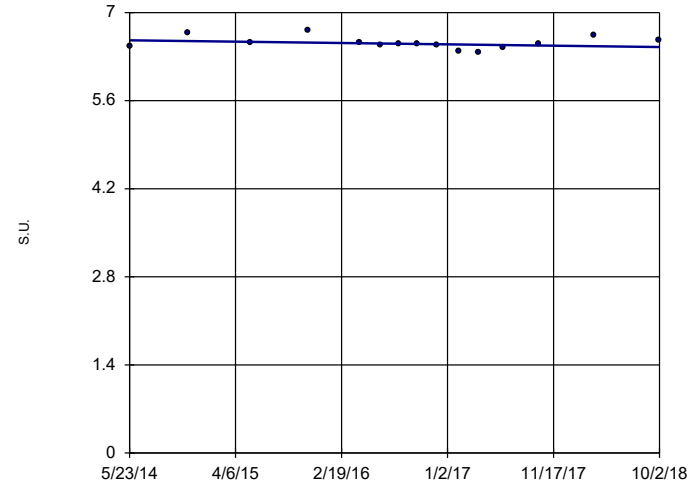


n = 15  
 Slope = 0.04752 units per year.  
 Mann-Kendall statistic = 26  
 critical = 53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1



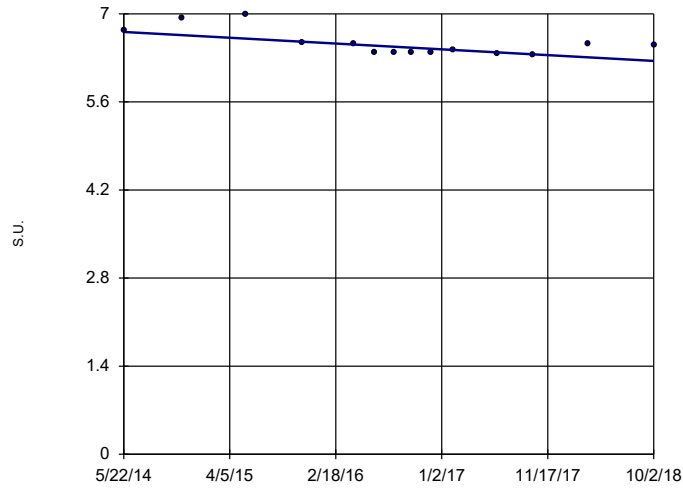
n = 15  
 Slope = -0.02455 units per year.  
 Mann-Kendall statistic = -17  
 critical = -53  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

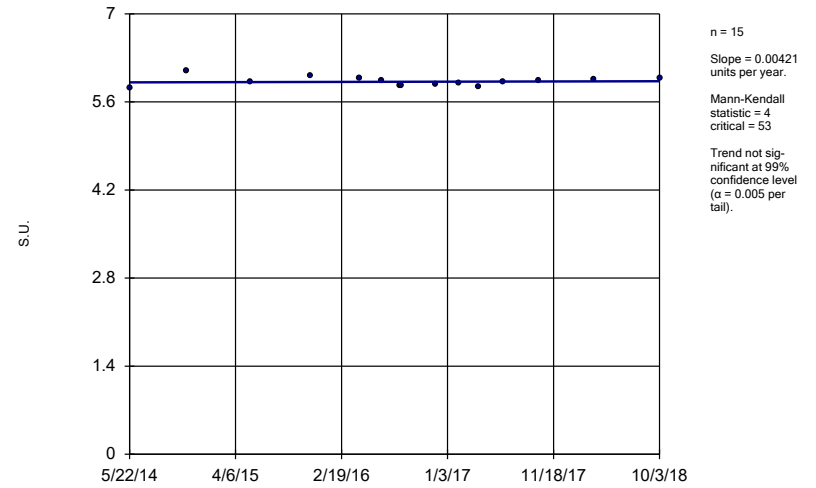
GWC-2



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

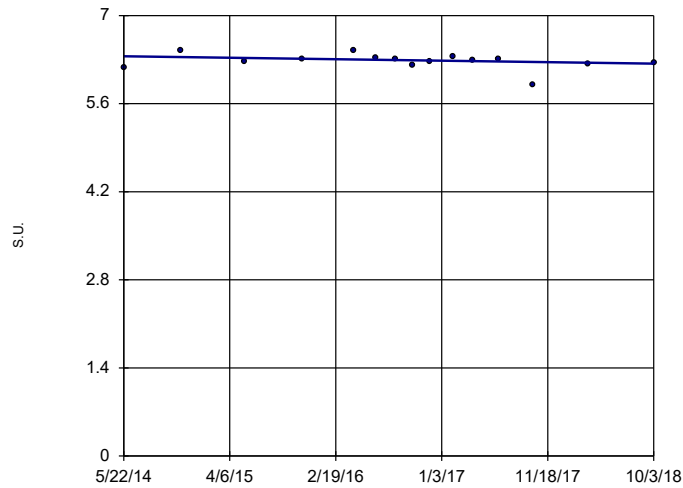
GWC-3



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

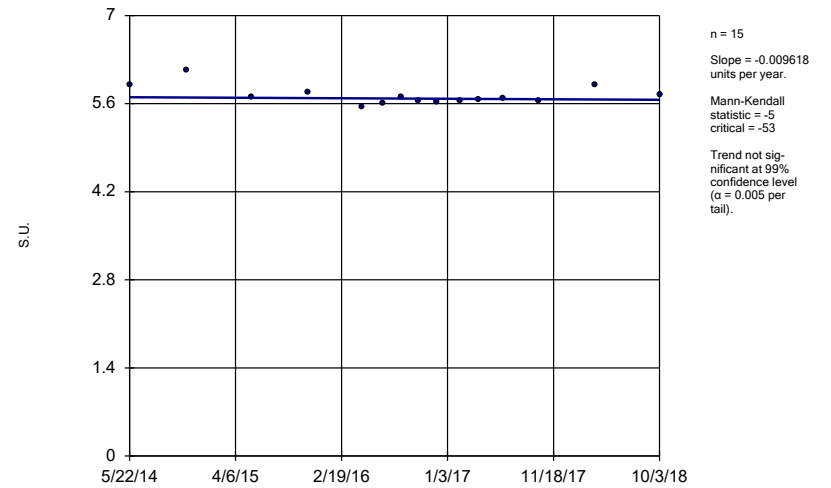
GWC-4



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

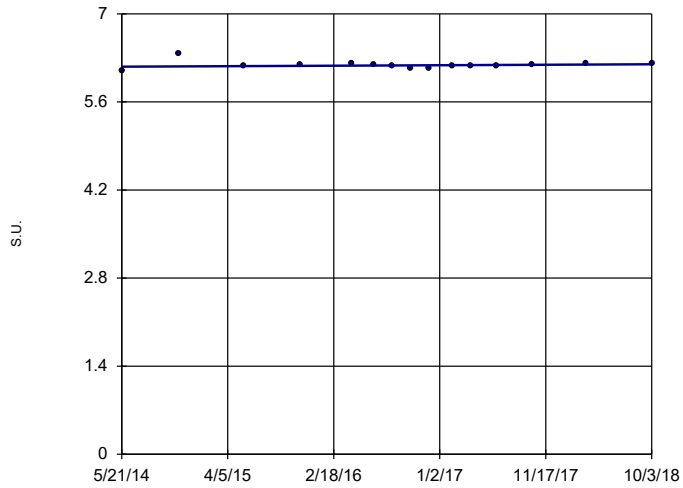
GWC-5



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

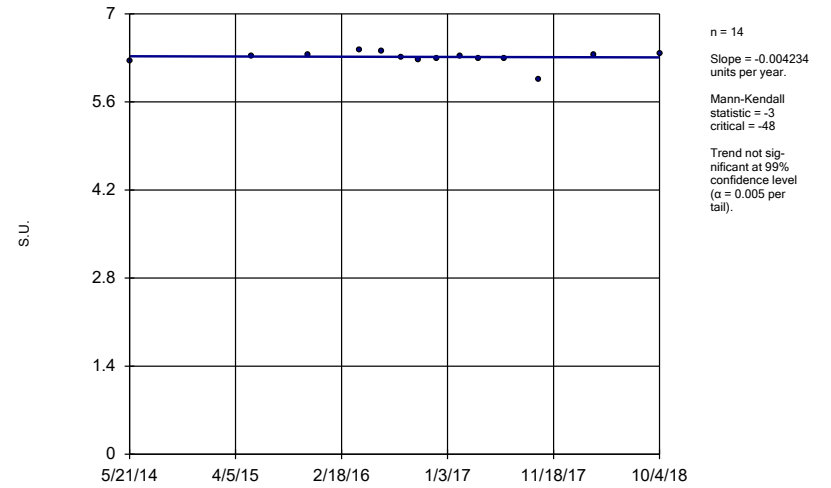
GWC-6



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

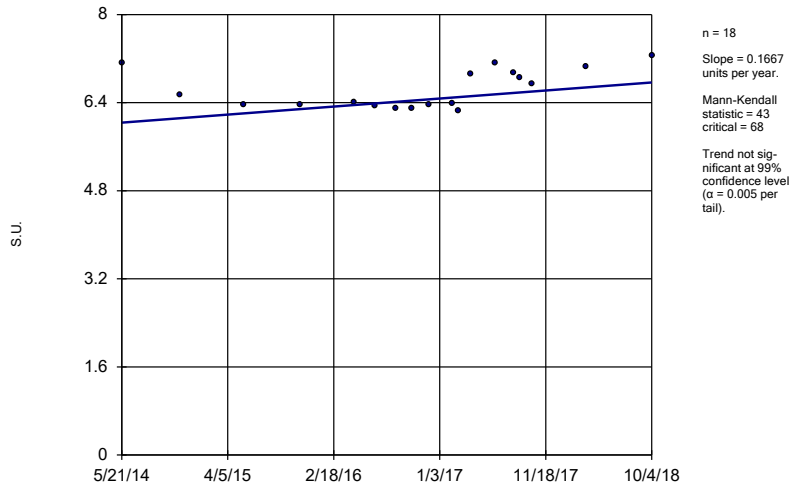
GWC-7



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

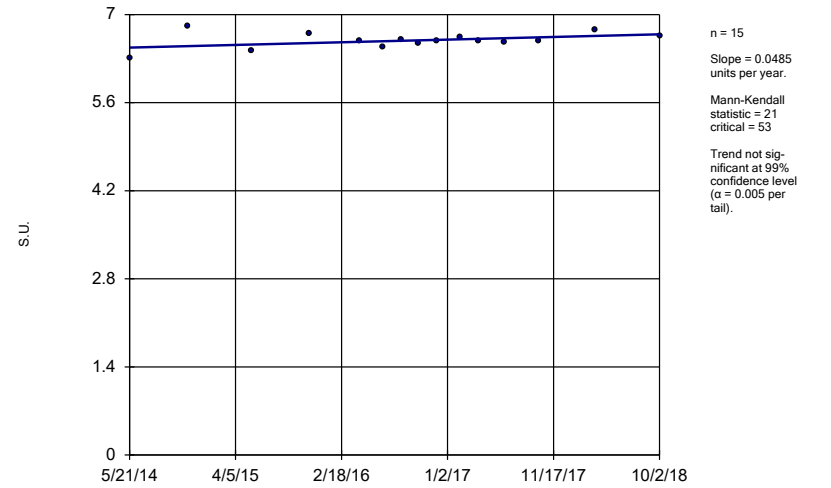
GWC-8A



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

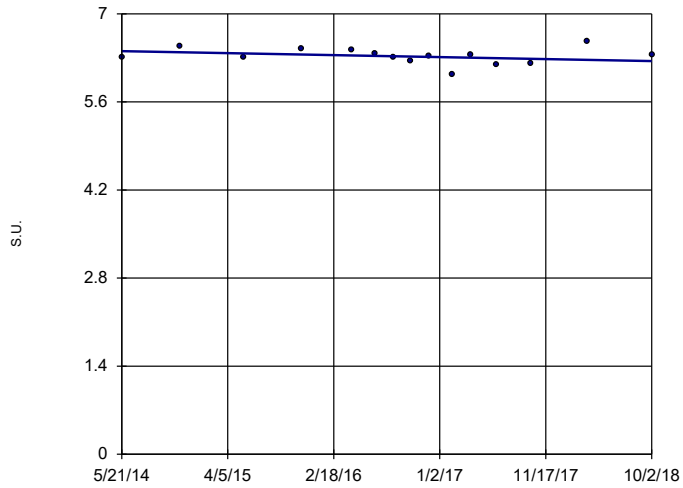
### Sen's Slope Estimator

GWC-9



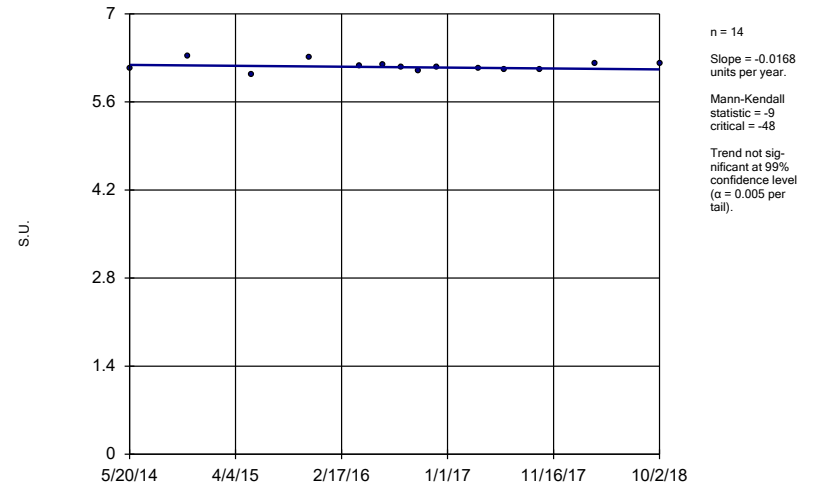
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



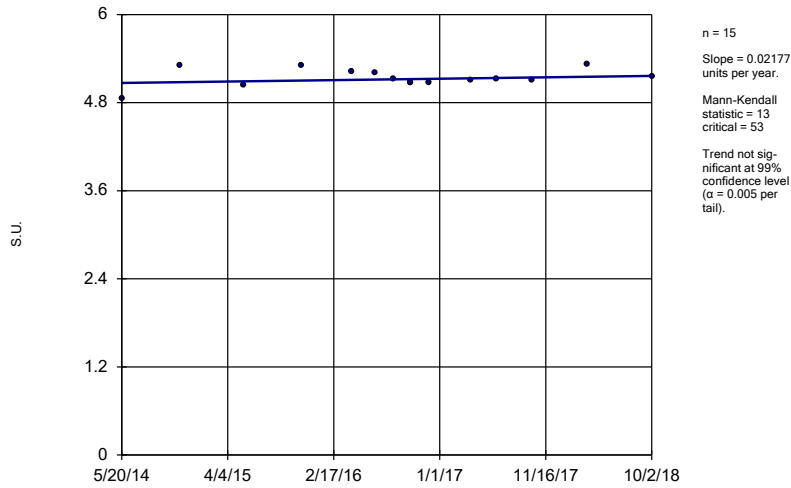
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



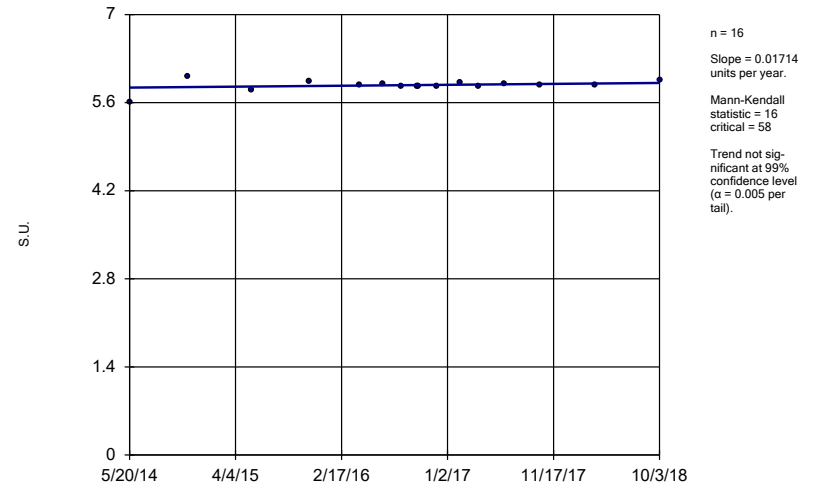
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



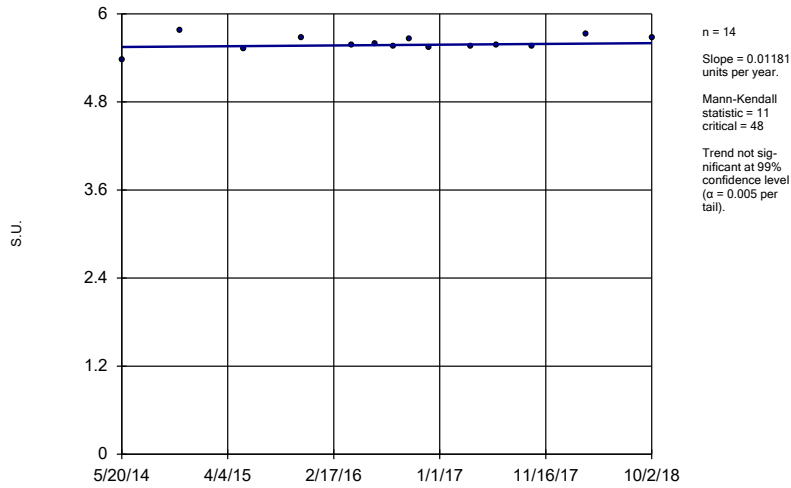
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-13



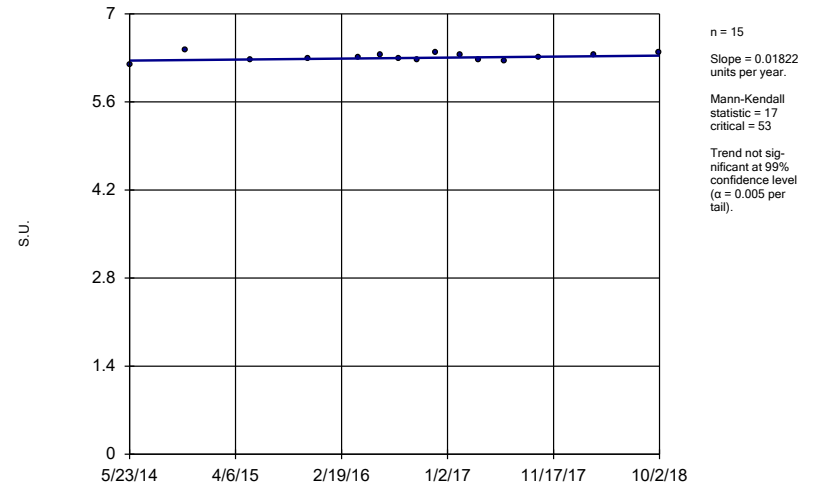
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



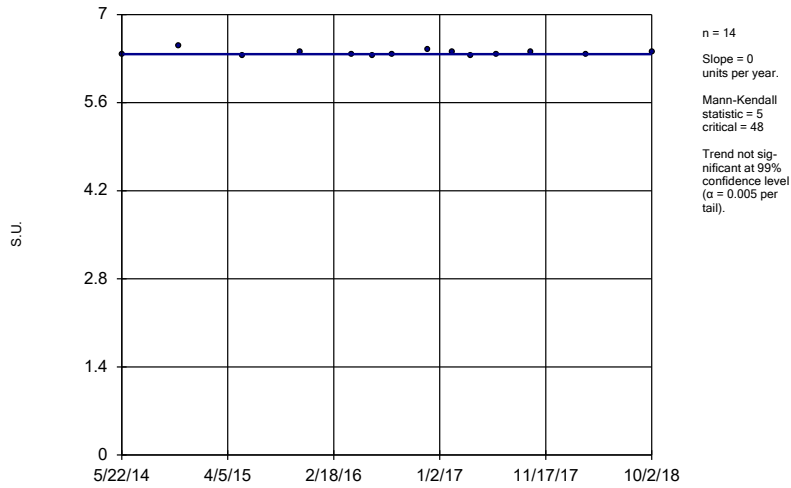
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



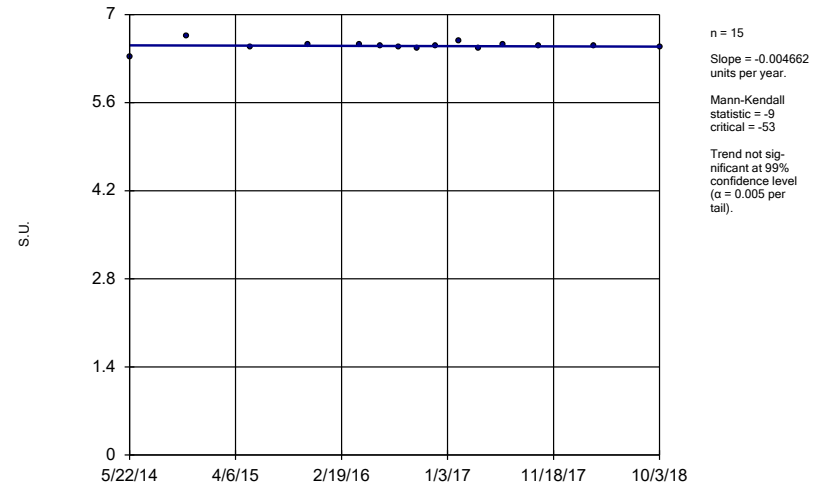
Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

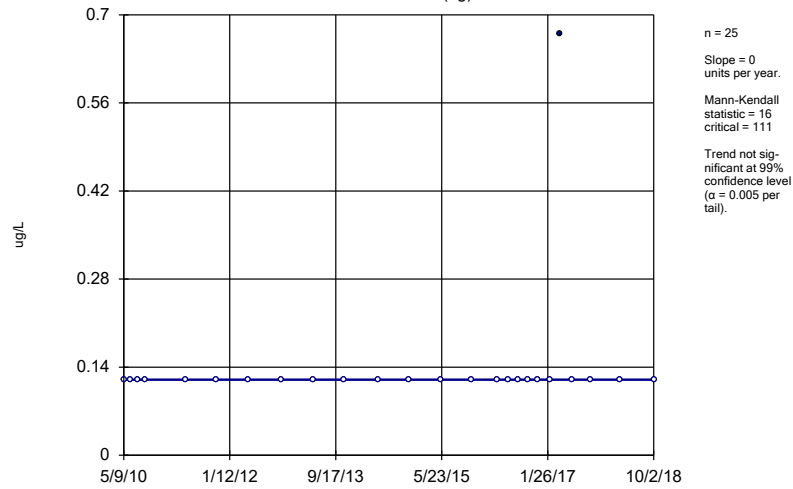
### Sen's Slope Estimator GWC-20



Constituent: pH Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

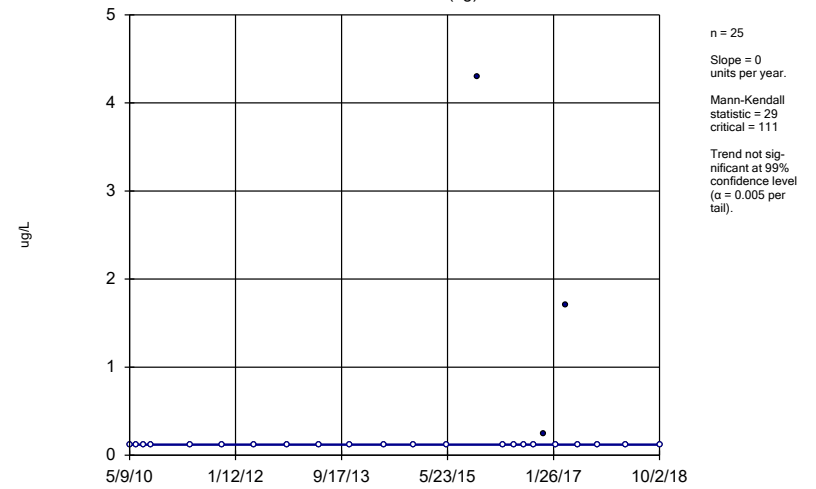
GWA-15 (bg)



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

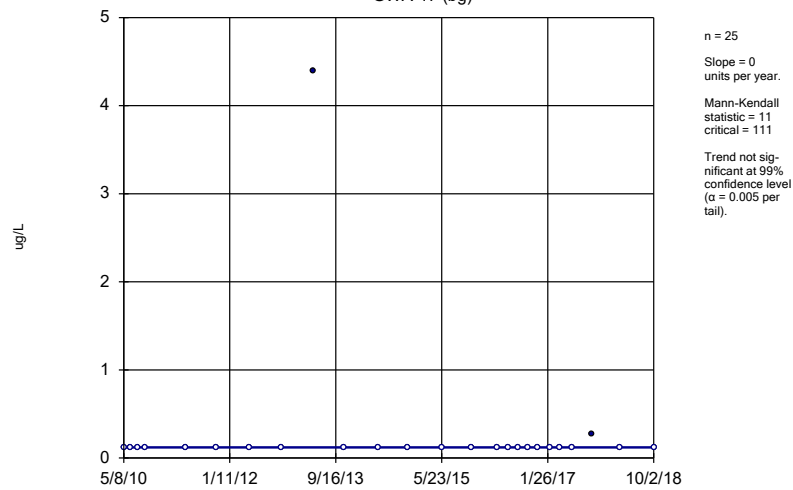
GWA-16 (bg)



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

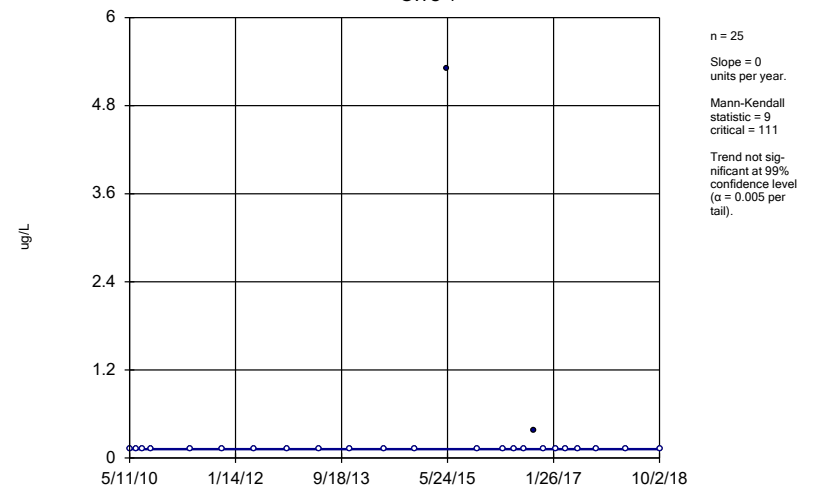
GWA-17 (bg)



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

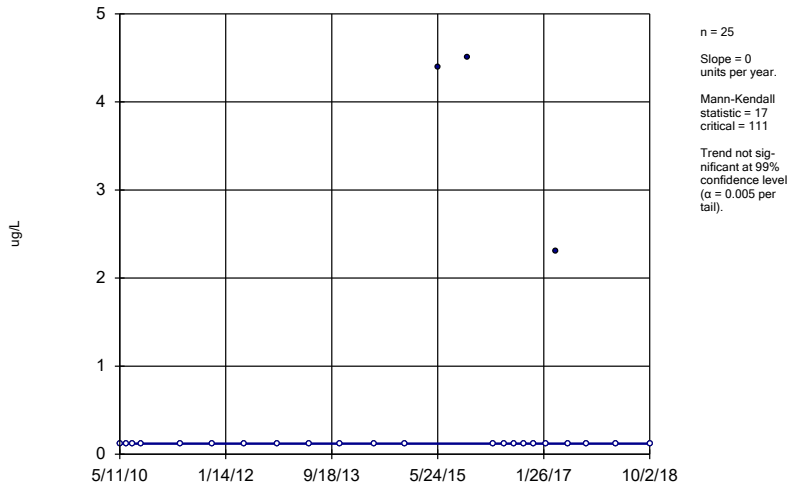
### Sen's Slope Estimator

GWC-1



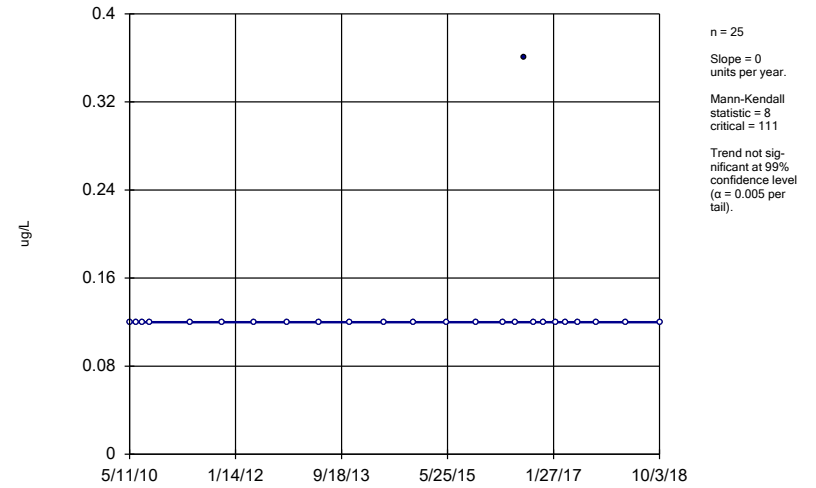
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-2



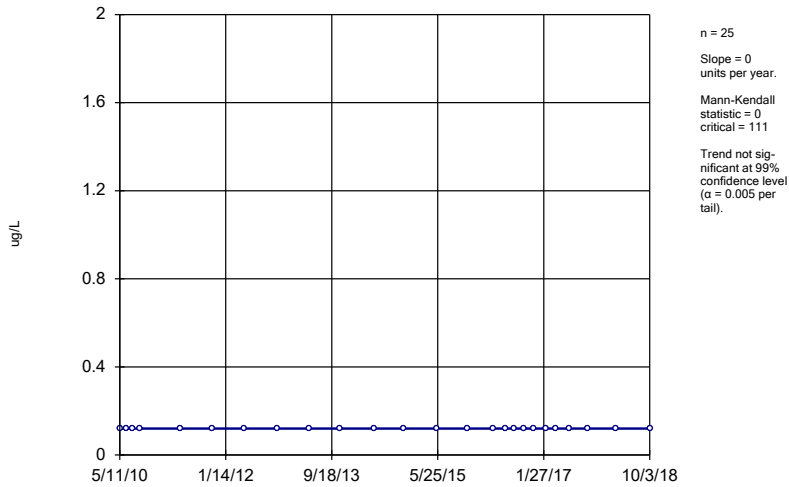
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-3



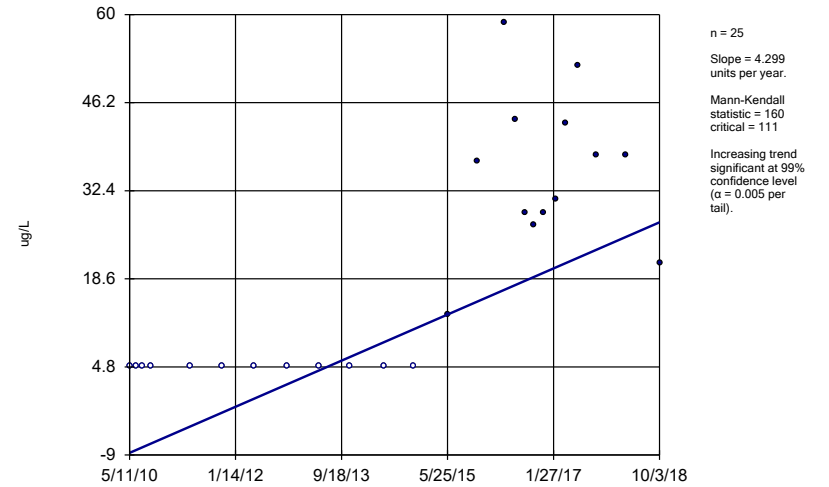
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-4



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

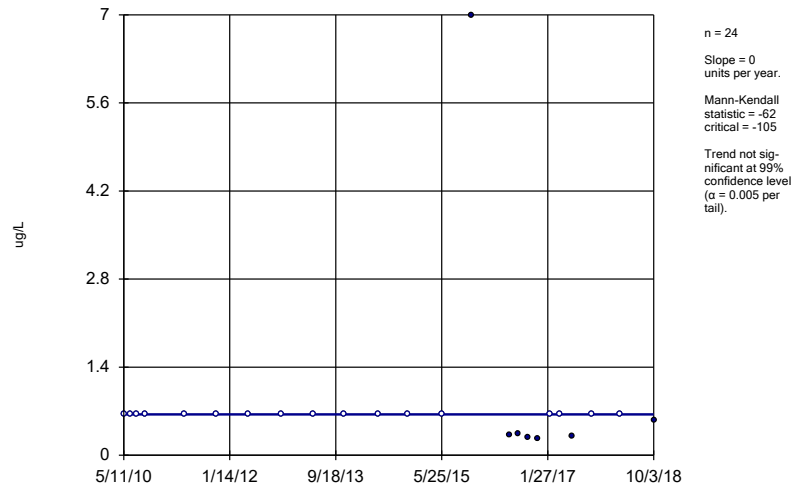
Sen's Slope Estimator  
 GWC-5



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

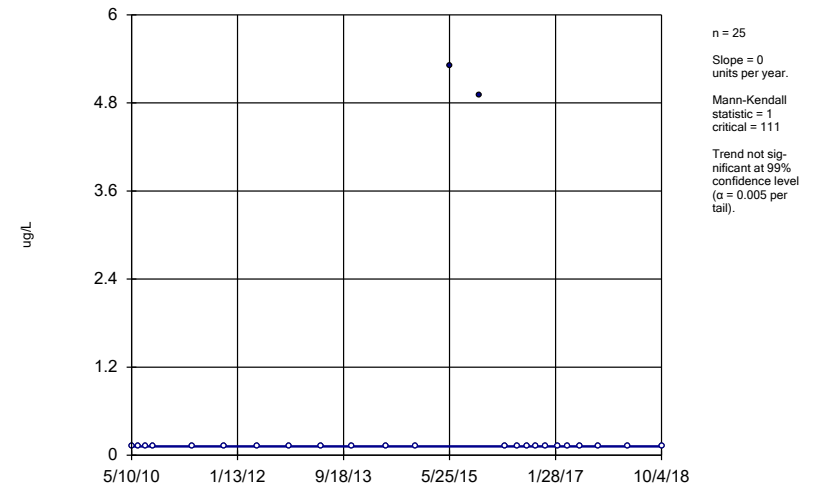
GWC-6



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

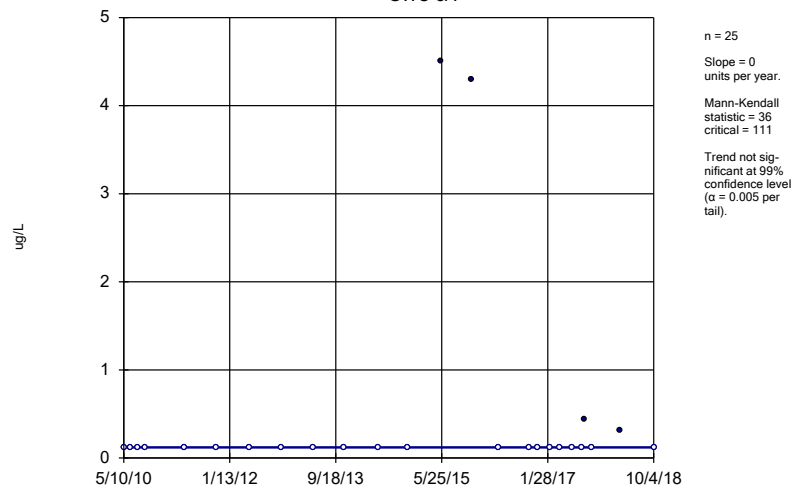
GWC-7



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

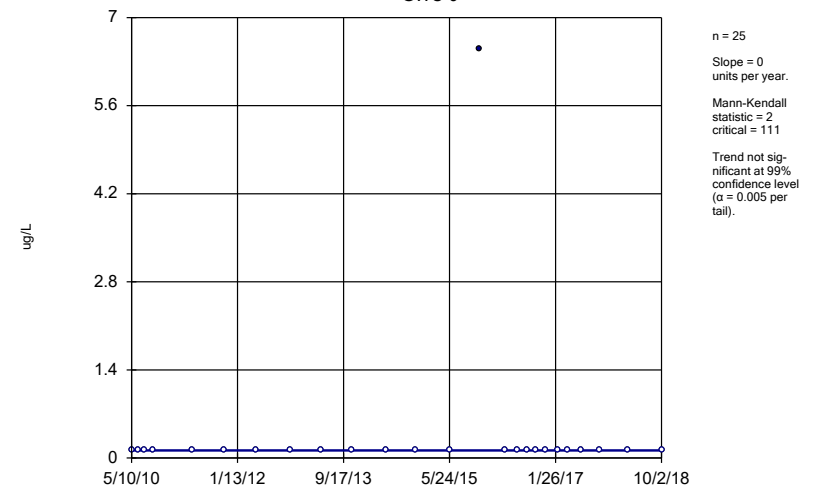
GWC-8A



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

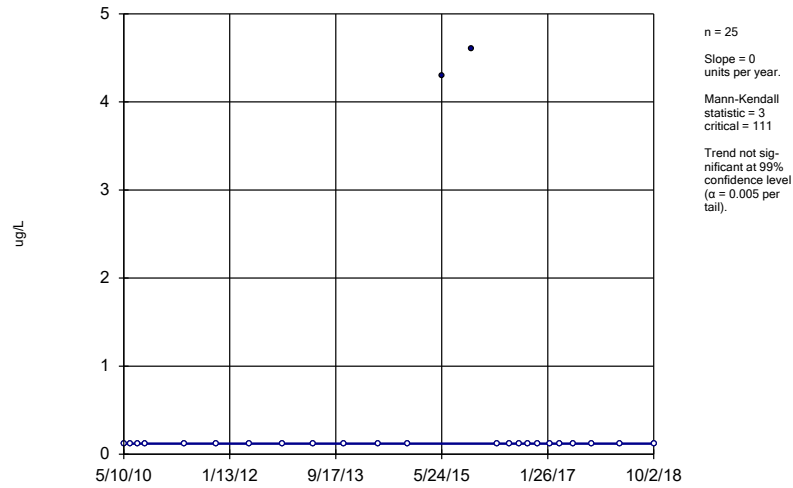
GWC-9



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

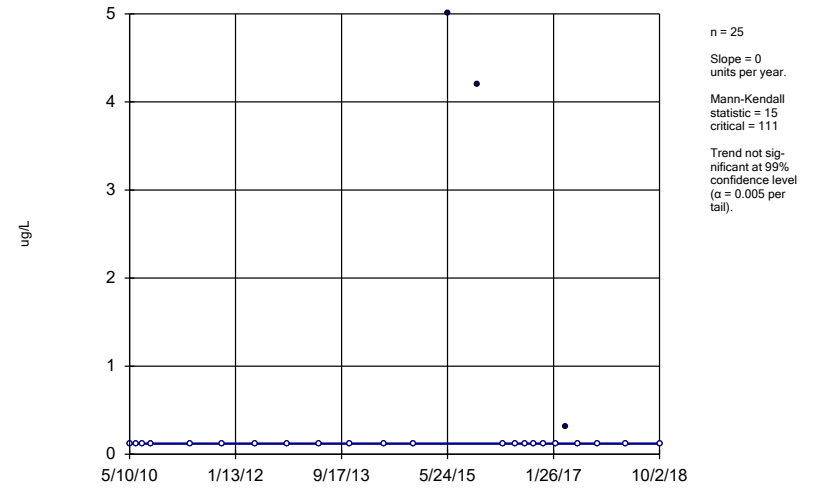


Sen's Slope Estimator  
GWC-10



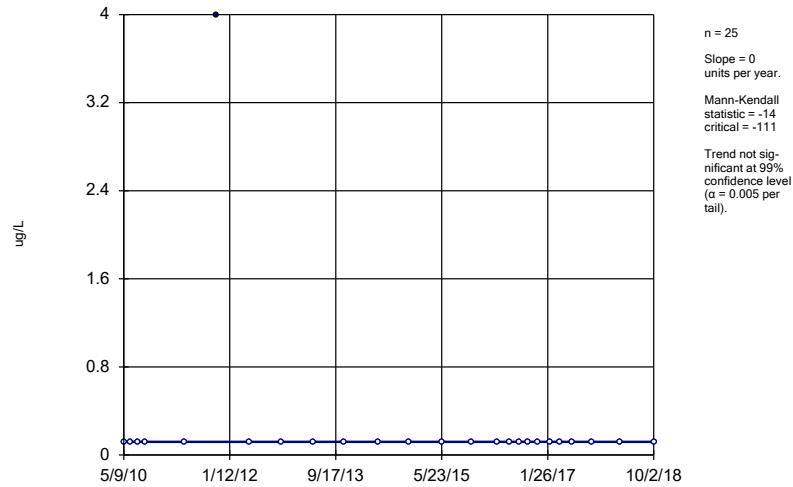
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



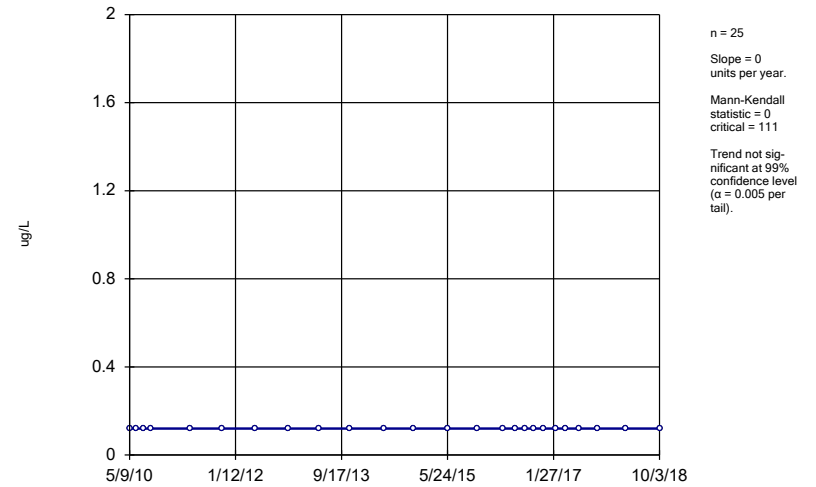
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



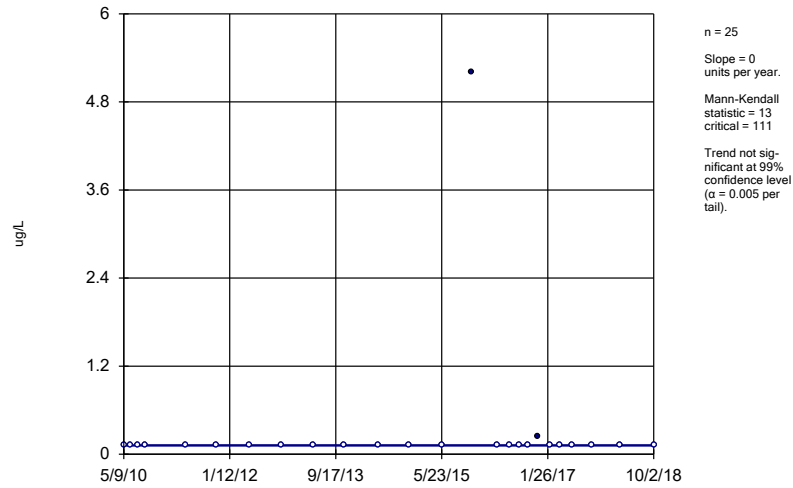
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13



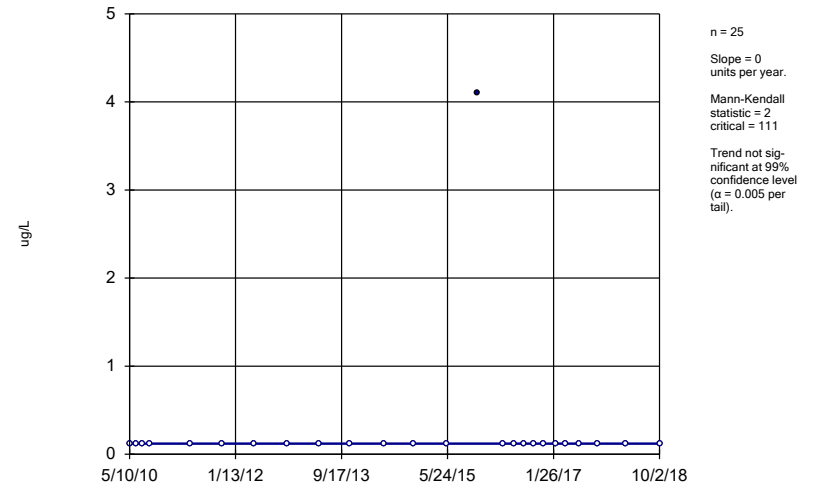
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



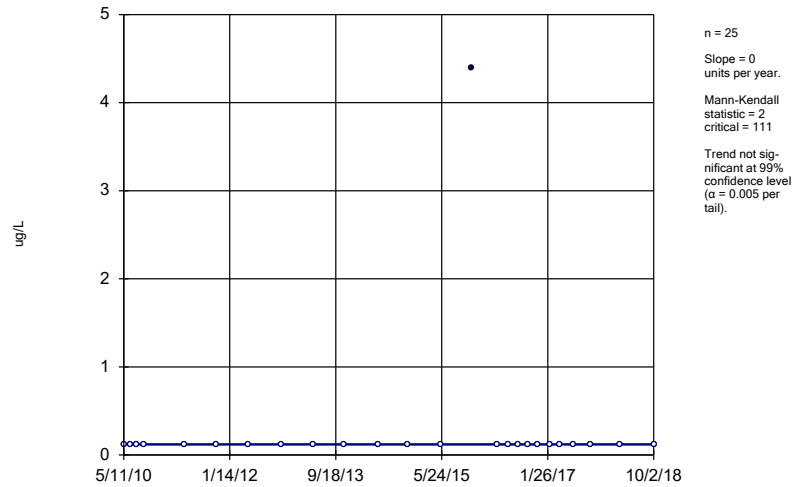
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



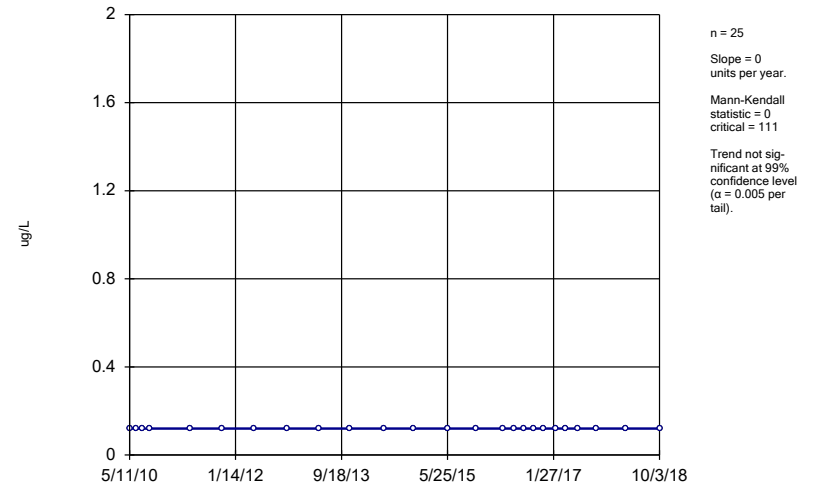
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



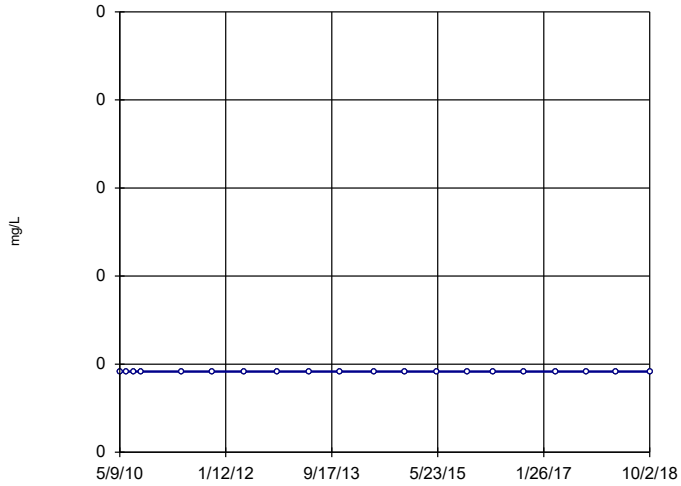
Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-20



Constituent: Selenium, Total Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

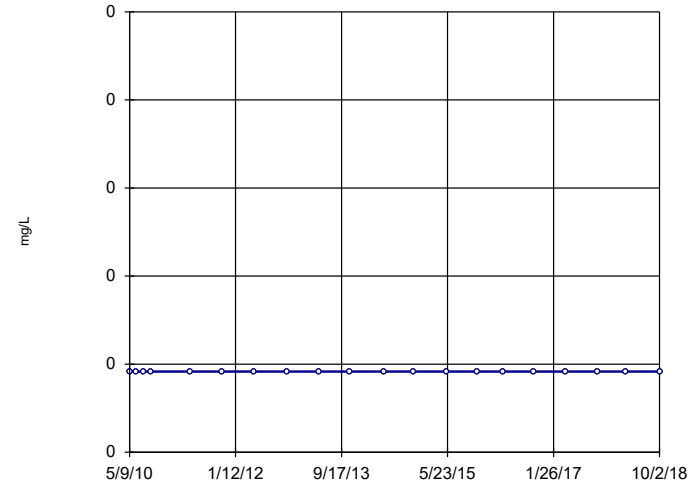
### Sen's Slope Estimator GWA-15 (bg)



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

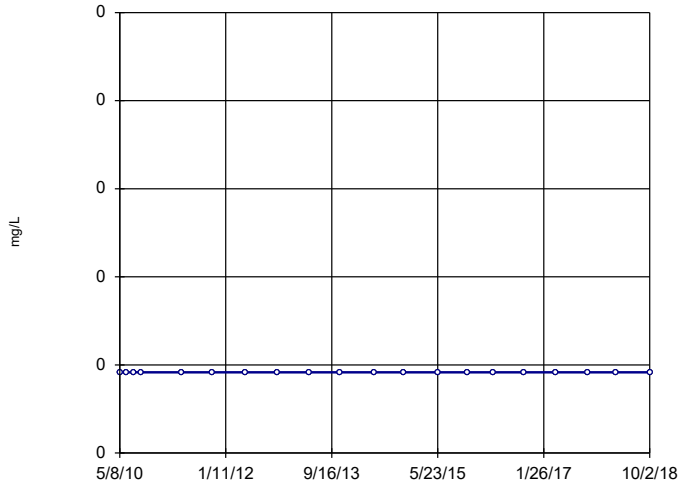
### Sen's Slope Estimator GWA-16 (bg)



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

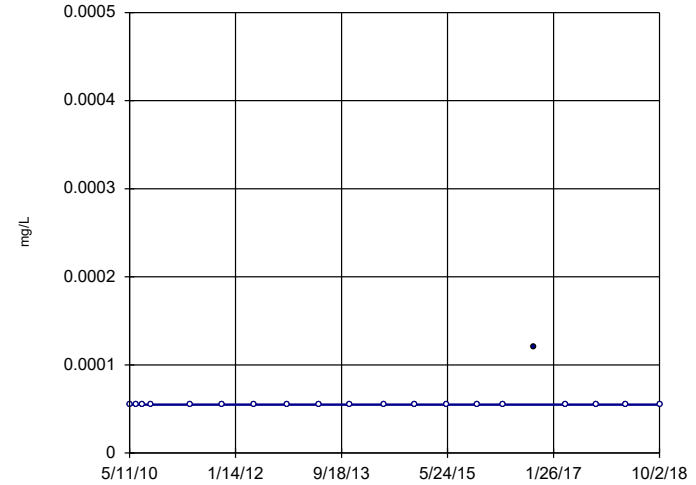
### Sen's Slope Estimator GWA-17 (bg)



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

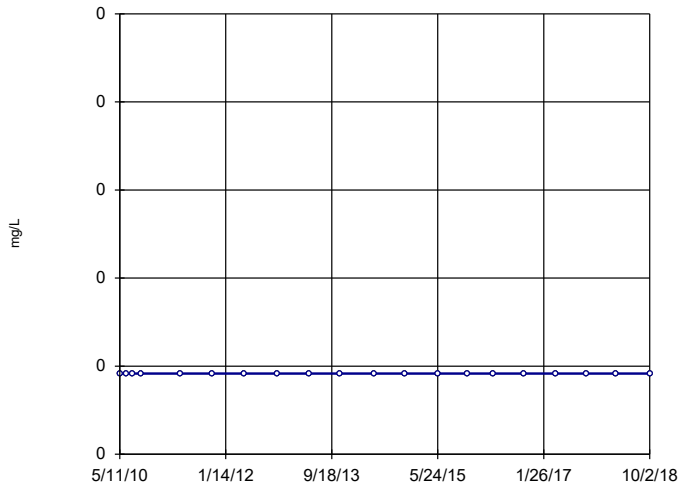
### Sen's Slope Estimator GWC-1



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 11  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

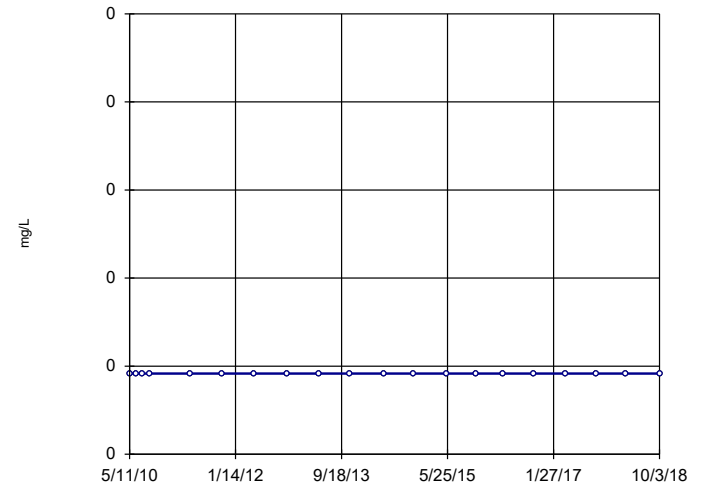
### Sen's Slope Estimator GWC-2



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

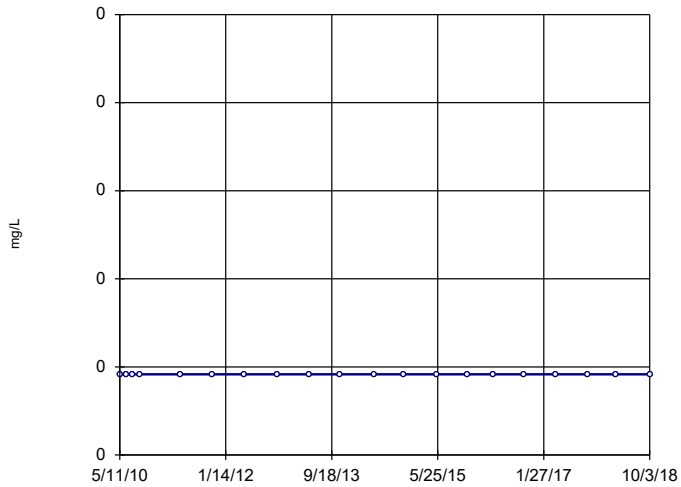
### Sen's Slope Estimator GWC-3



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

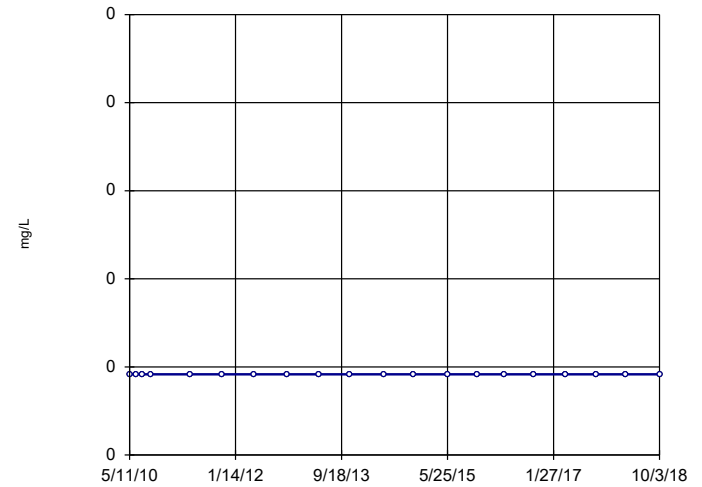
### Sen's Slope Estimator GWC-4



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

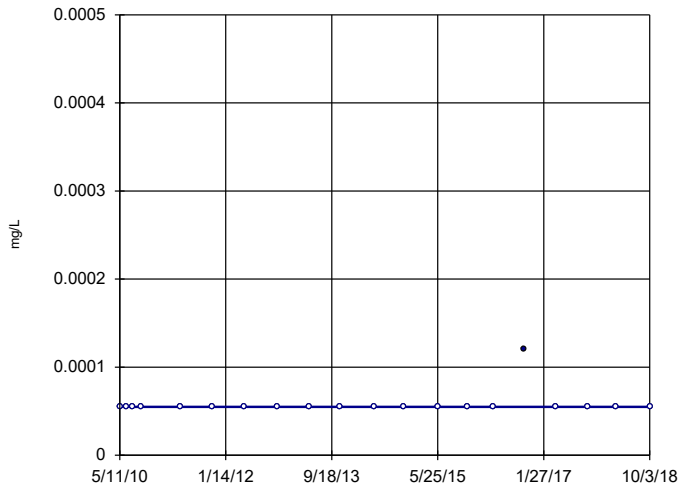
### Sen's Slope Estimator GWC-5



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

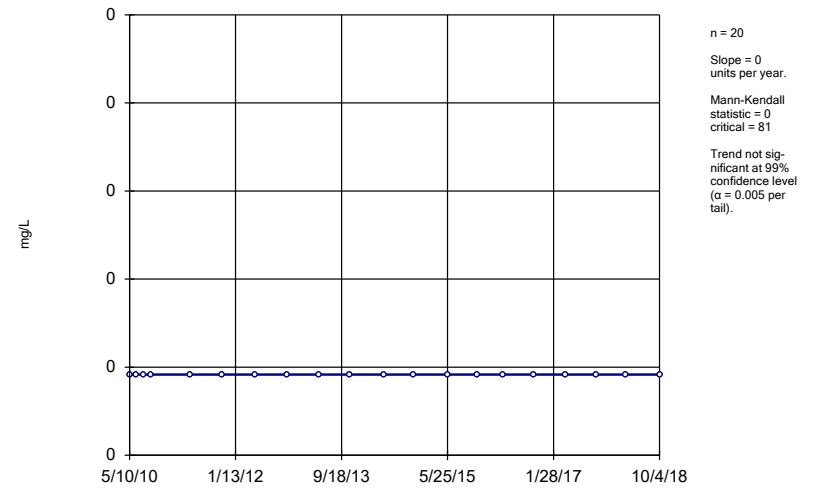
Constituent: Silver Analysis Run 4/23/2019 4:21 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-6



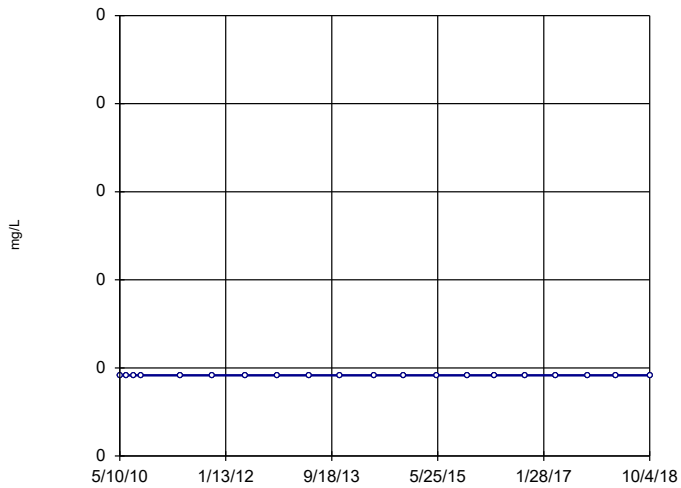
Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-7



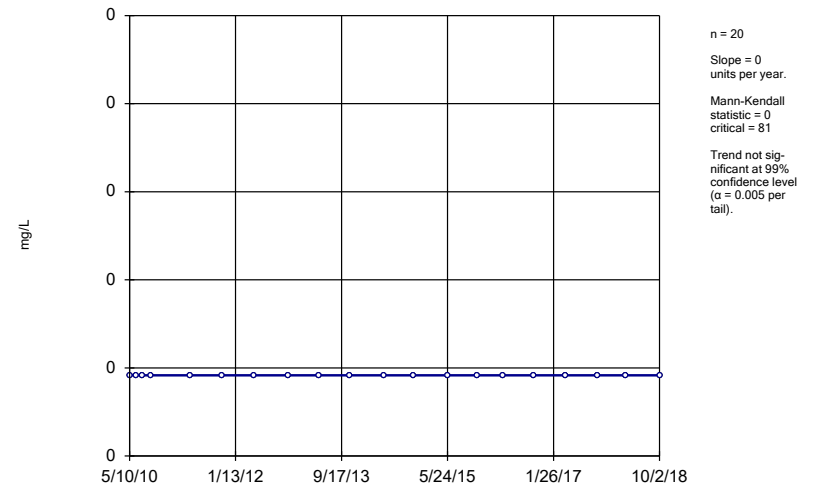
Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-8A



Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

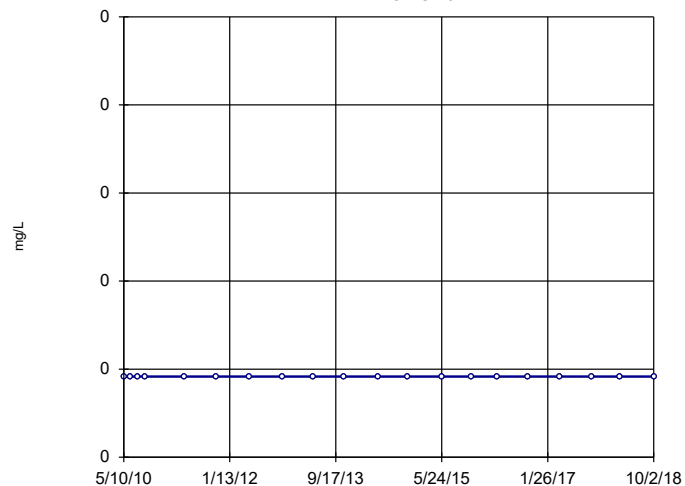
### Sen's Slope Estimator GWC-9



Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10

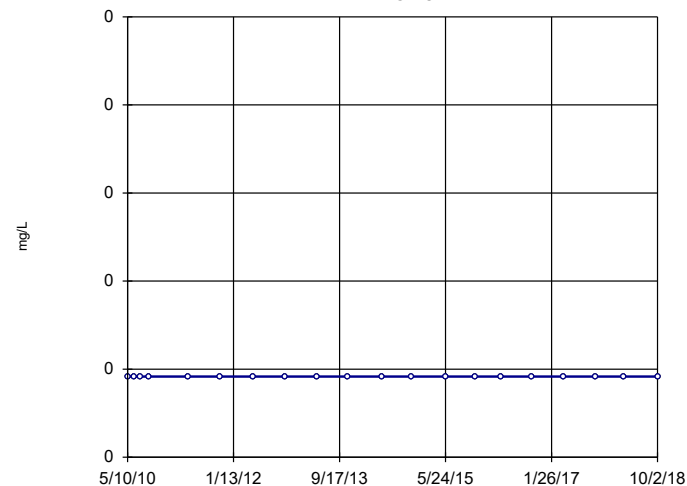


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-11

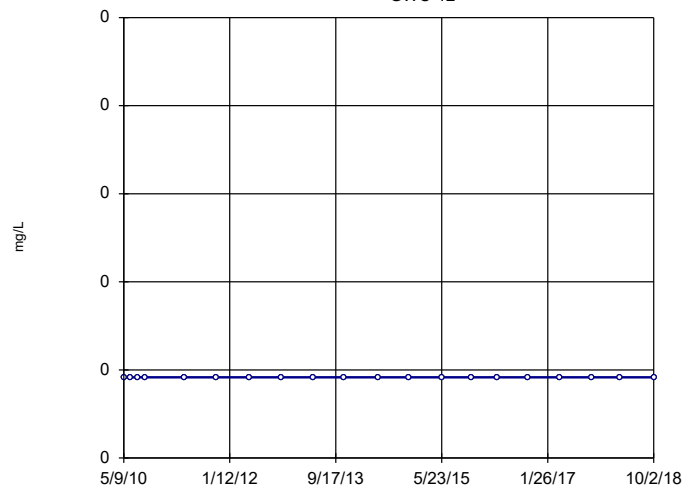


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-12

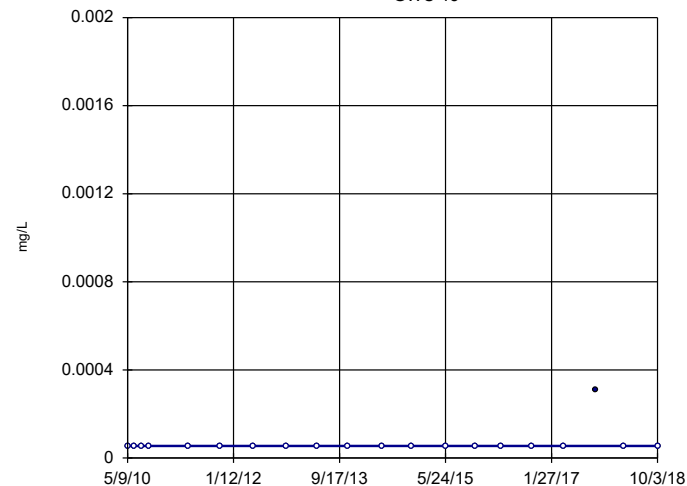


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-13

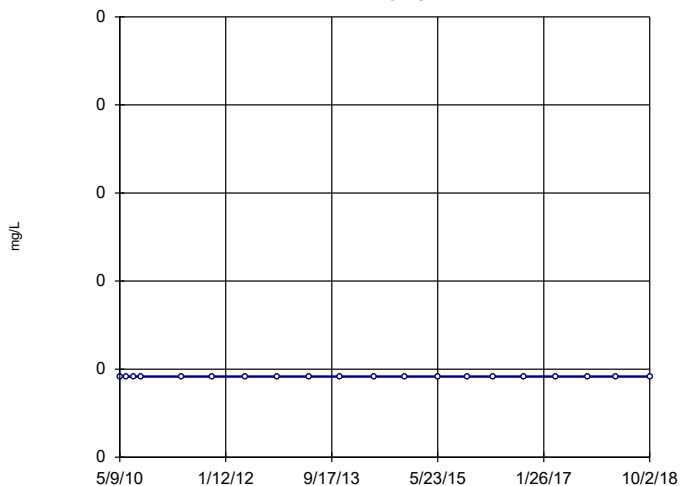


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 15  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

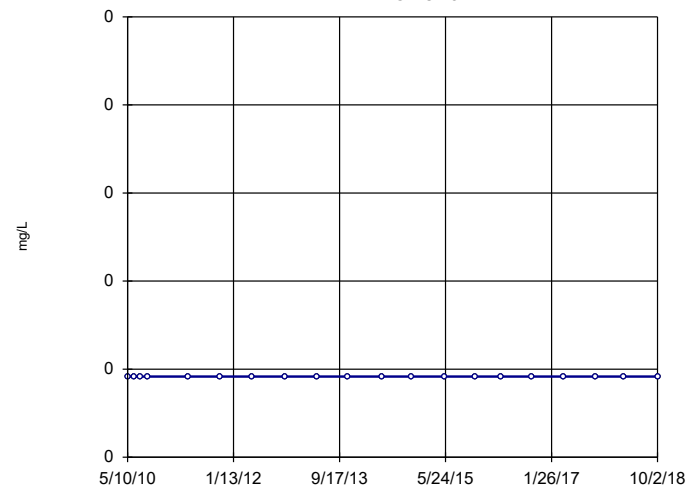


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

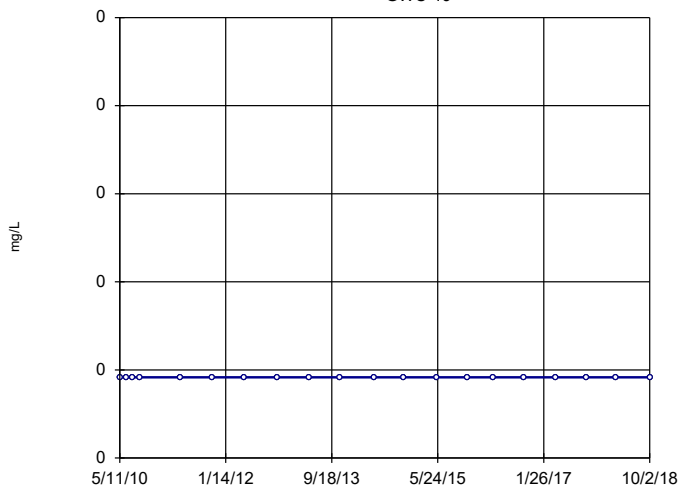


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

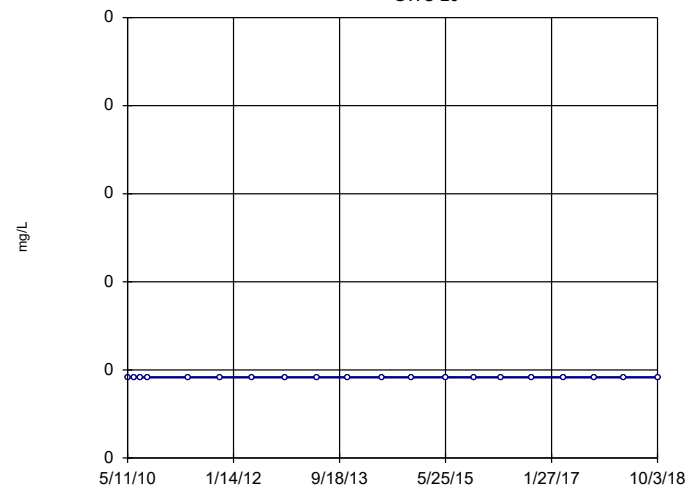


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-20

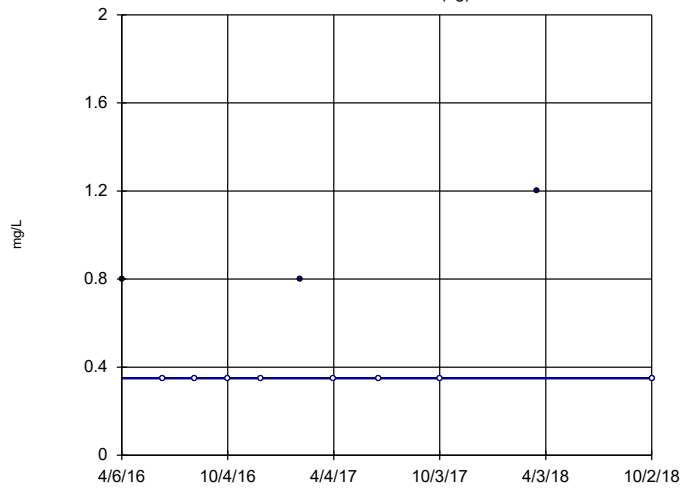


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Silver Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

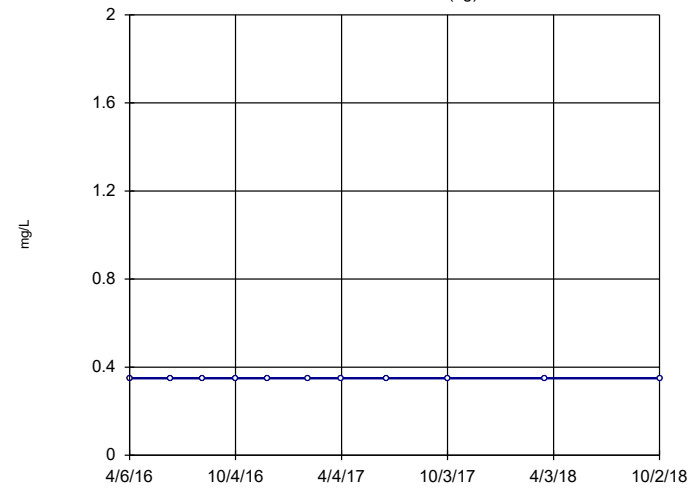


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

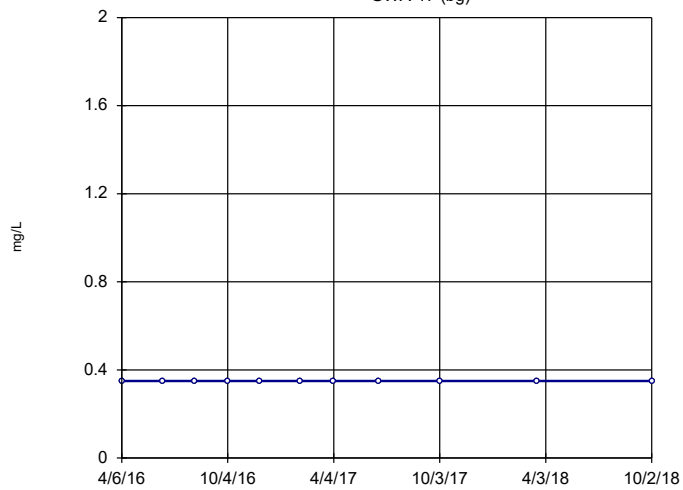


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

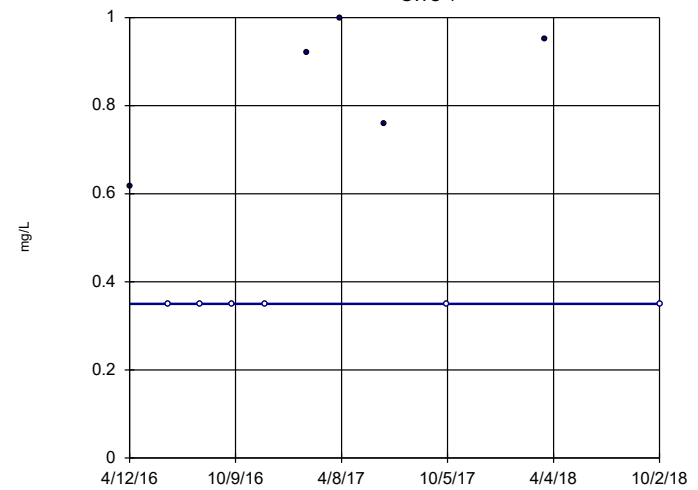


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1



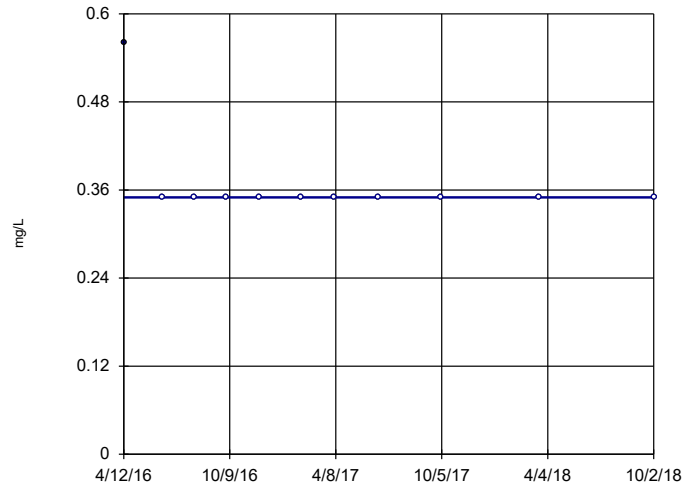
n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 8  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

GWC-2

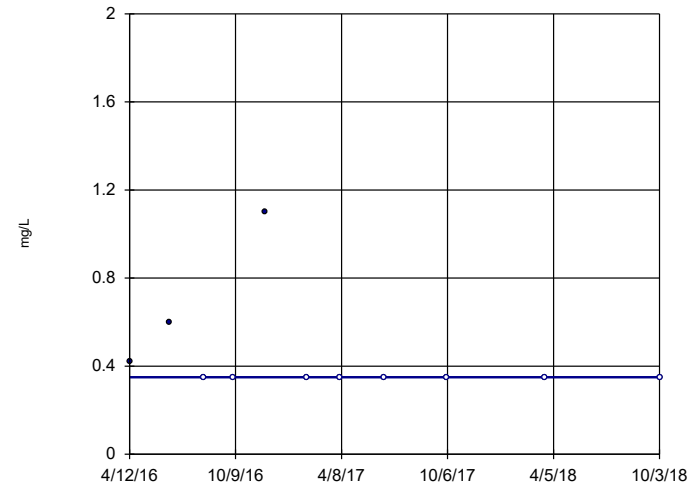


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -10  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

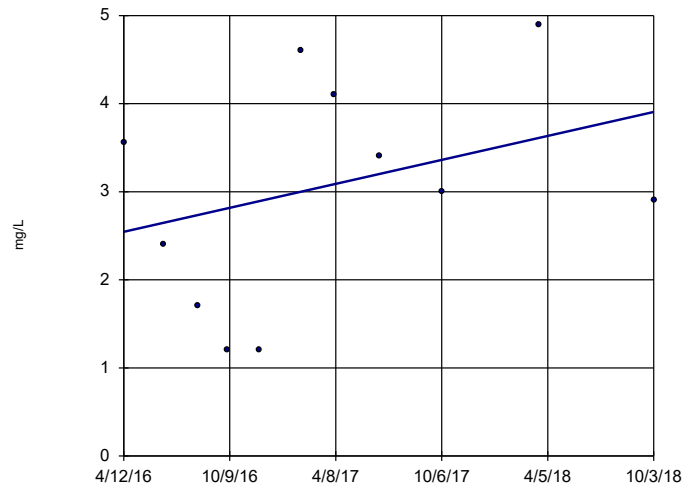


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -17  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

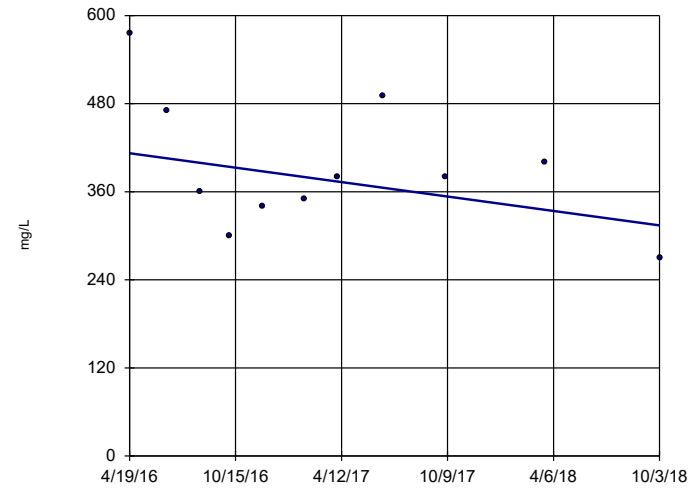


n = 11  
 Slope = 0.549  
 units per year.  
 Mann-Kendall  
 statistic = 8  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

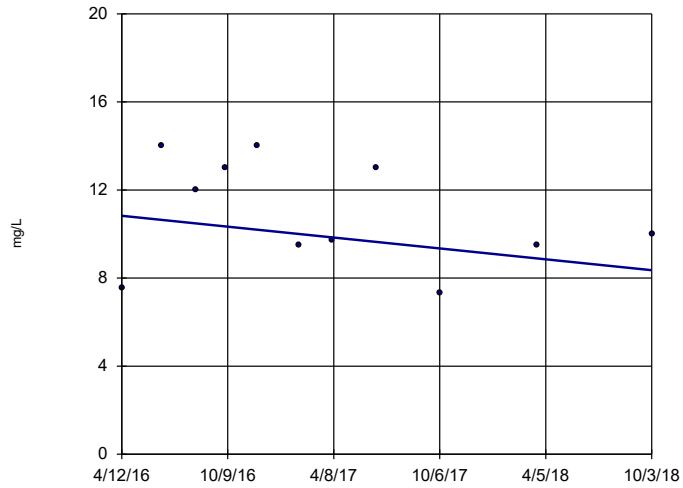


n = 11  
 Slope = -40.05  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-6

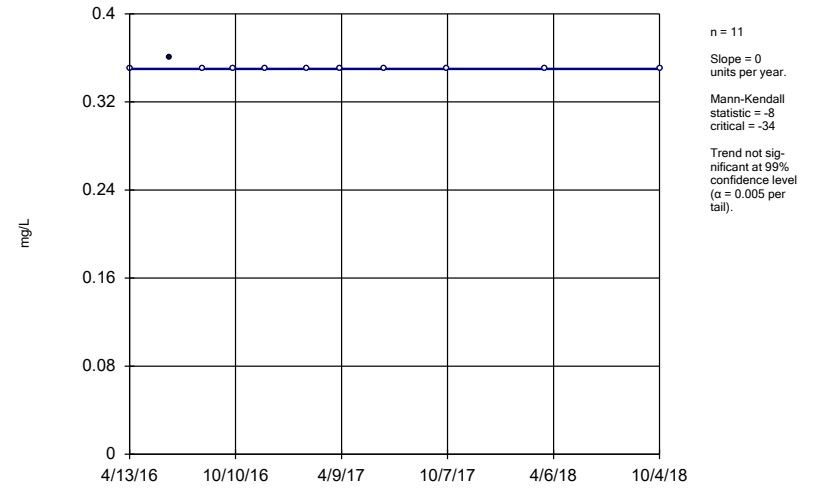


Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

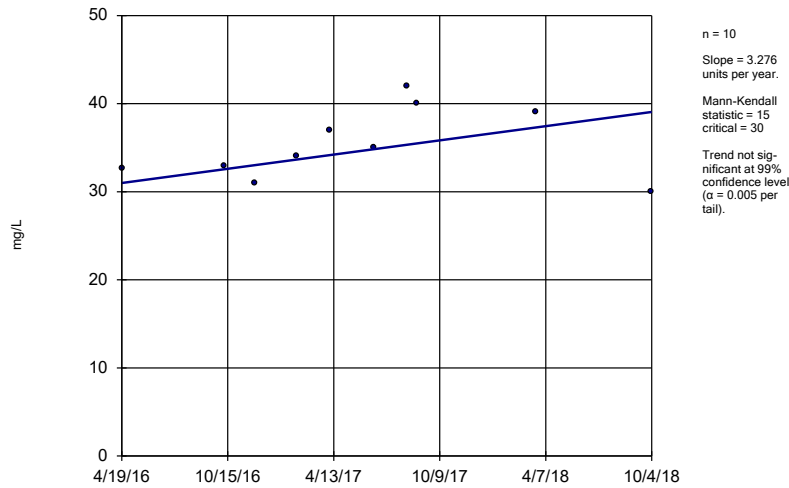
GWC-7



Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

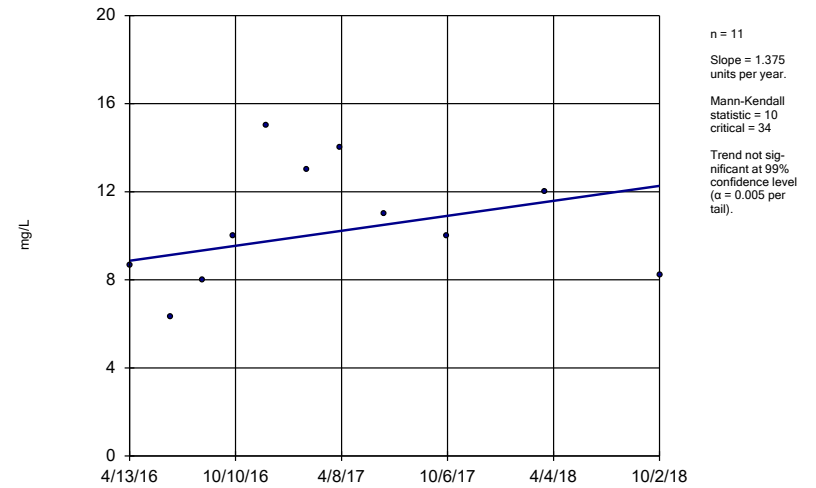
GWC-8A



Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

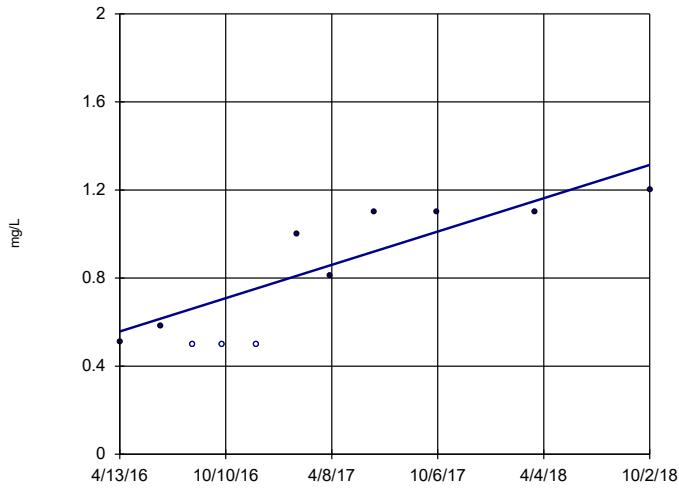
### Sen's Slope Estimator

GWC-9



Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

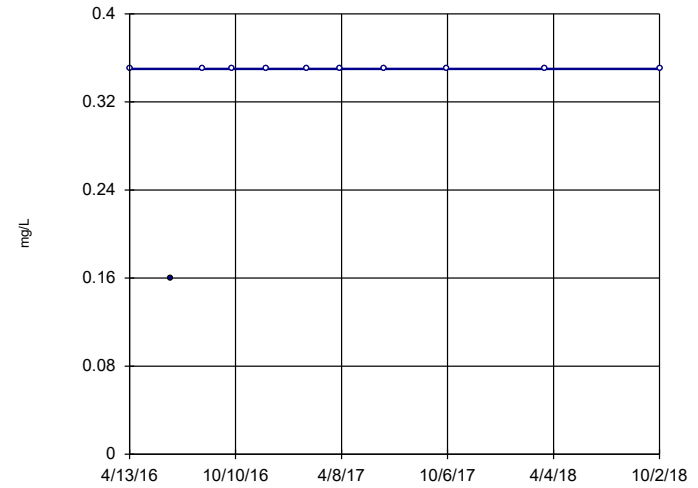
### Sen's Slope Estimator GWC-10



n = 11  
Slope = 0.3059  
units per year.  
Mann-Kendall  
statistic = 35  
critical = 34  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

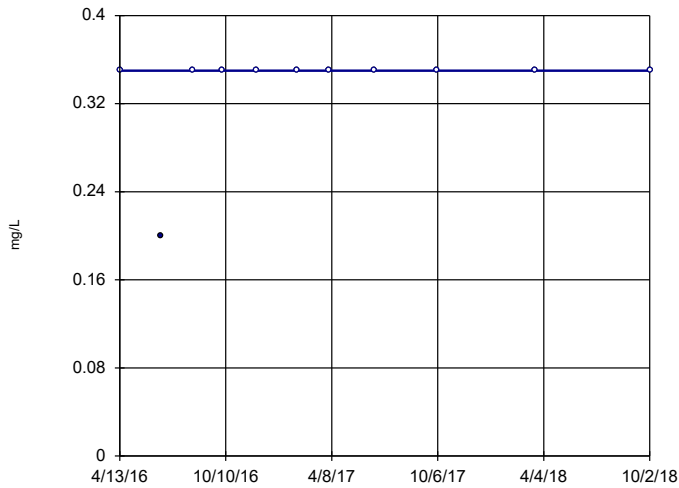
### Sen's Slope Estimator GWC-11



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 8  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

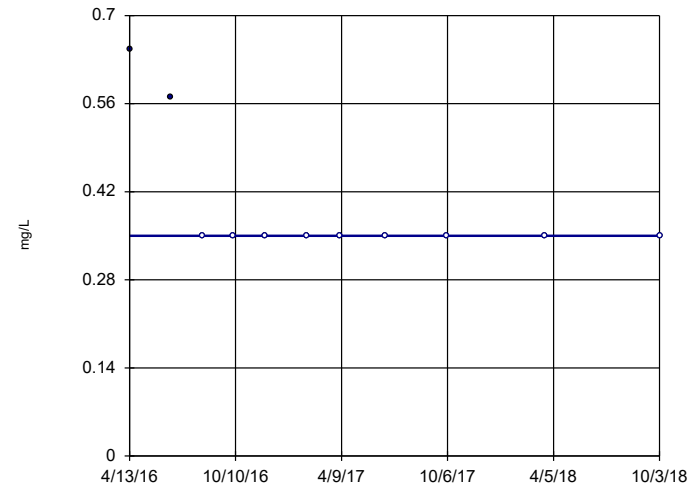
### Sen's Slope Estimator GWC-12



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 8  
critical = 34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

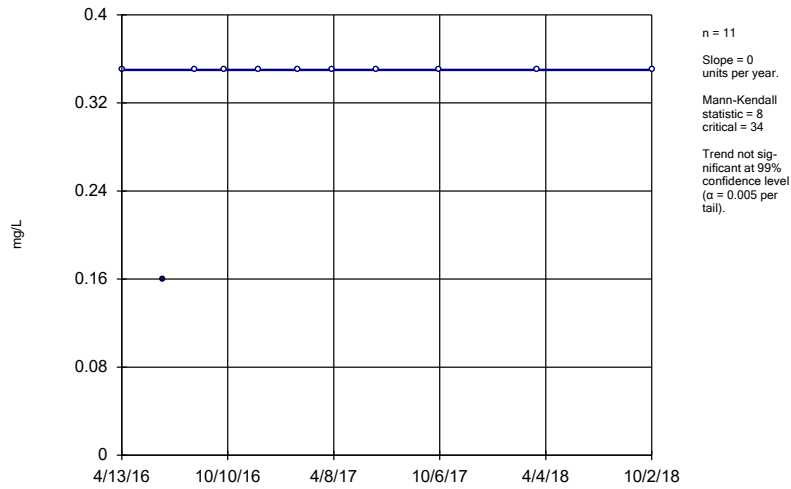
### Sen's Slope Estimator GWC-13



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -19  
critical = -34  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

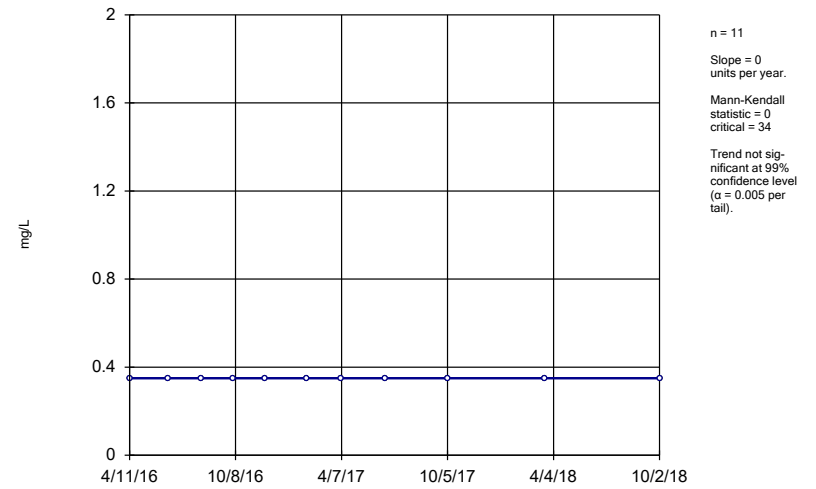
Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-14



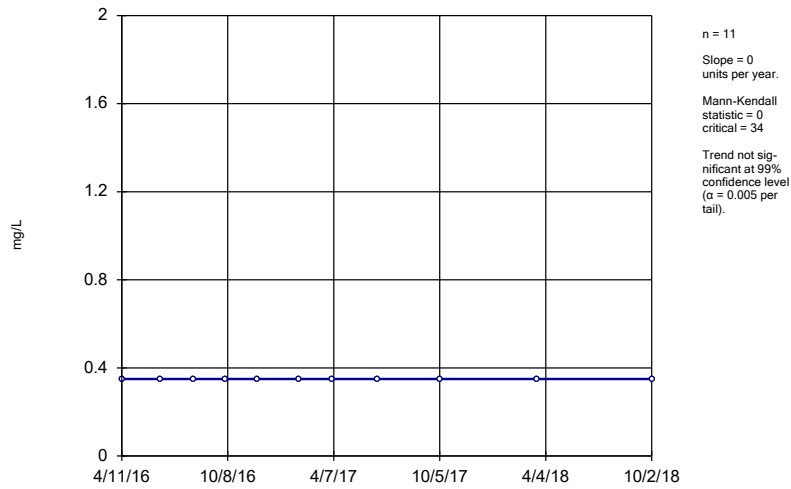
Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



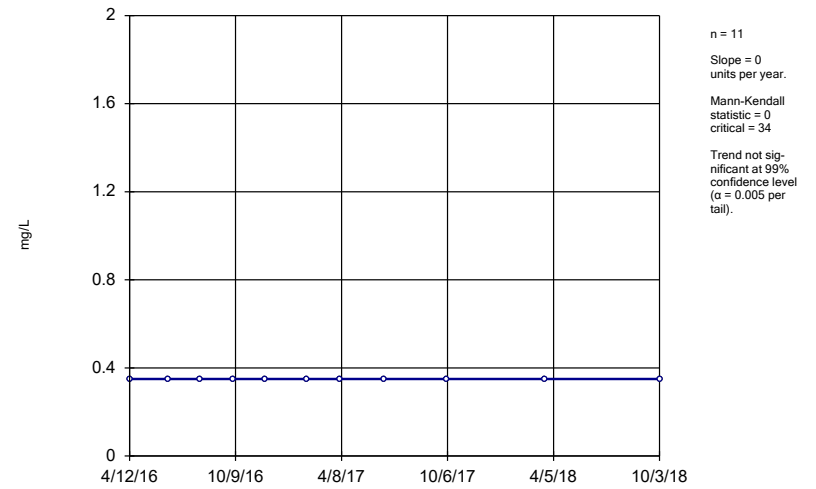
Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

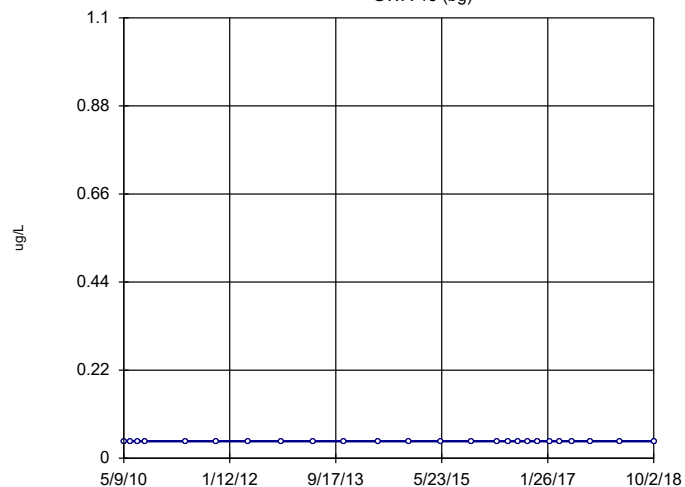
### Sen's Slope Estimator GWC-20



Constituent: Sulfate Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

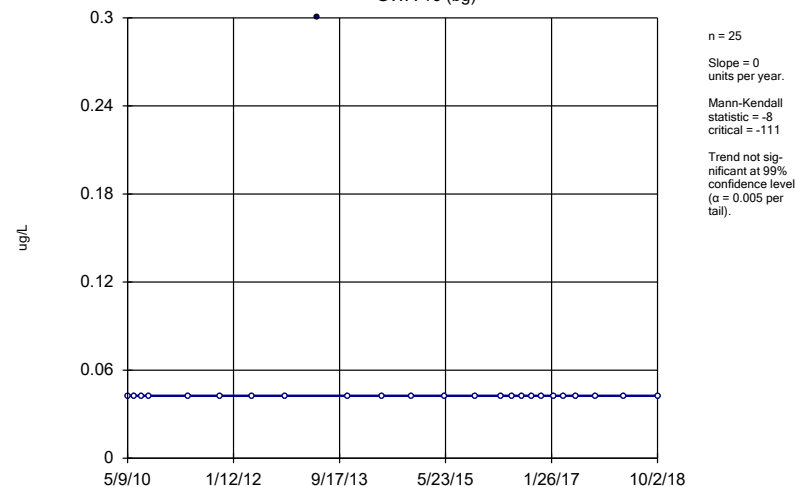
GWA-15 (bg)



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

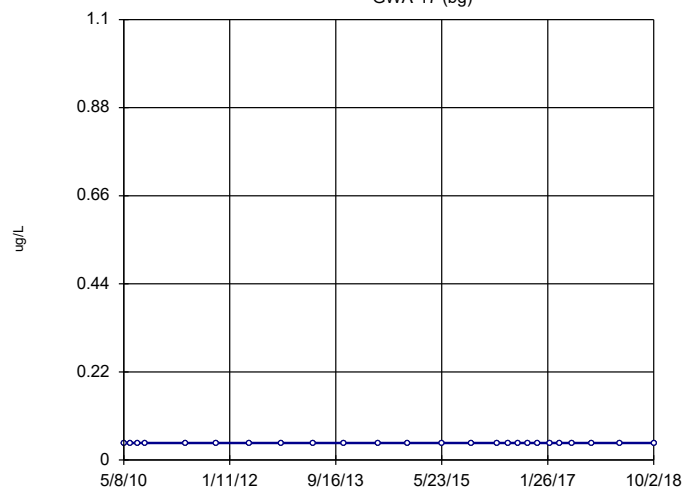
GWA-16 (bg)



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

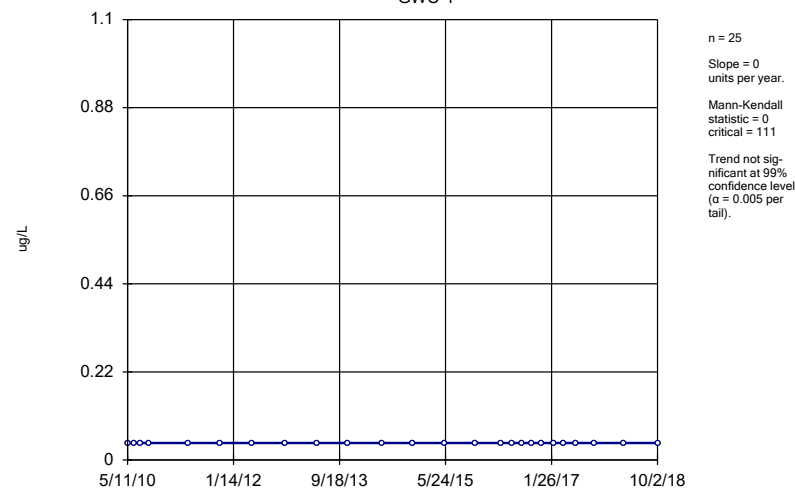
GWA-17 (bg)



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

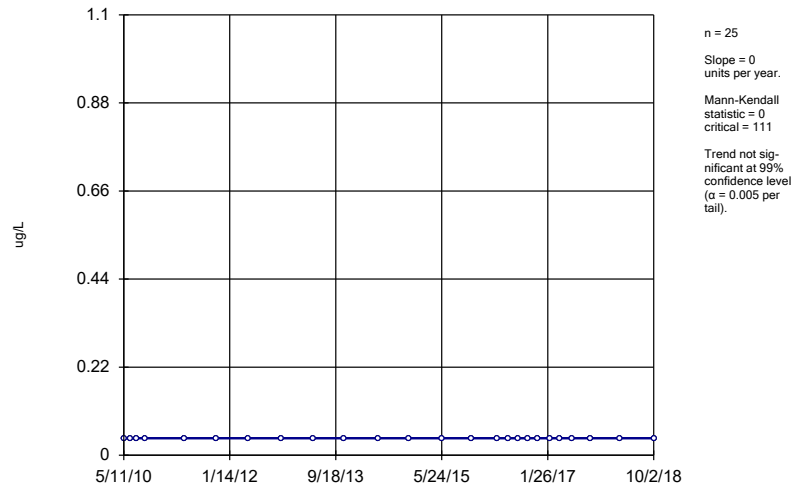
### Sen's Slope Estimator

GWC-1



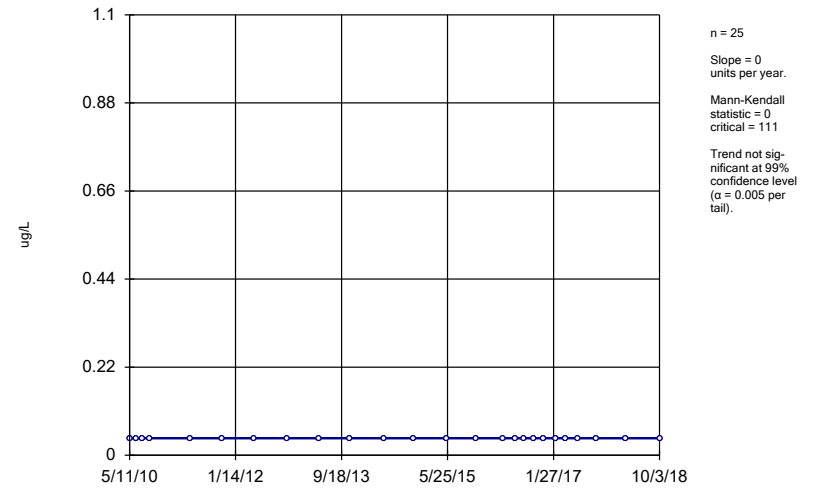
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-2



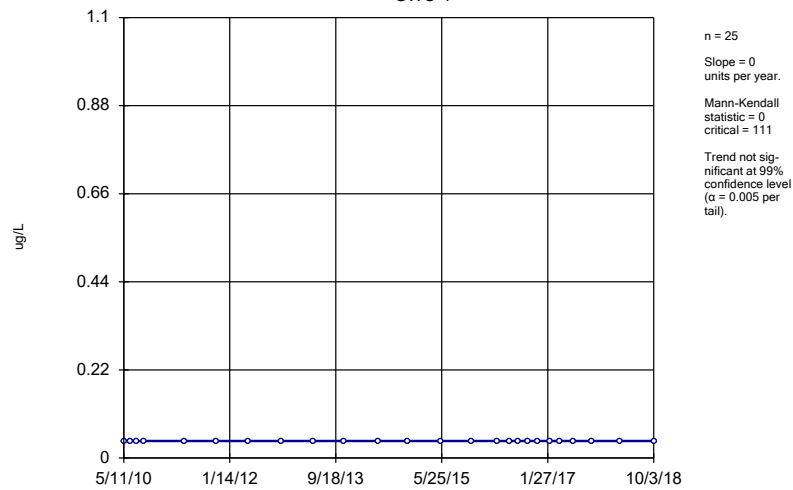
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-3



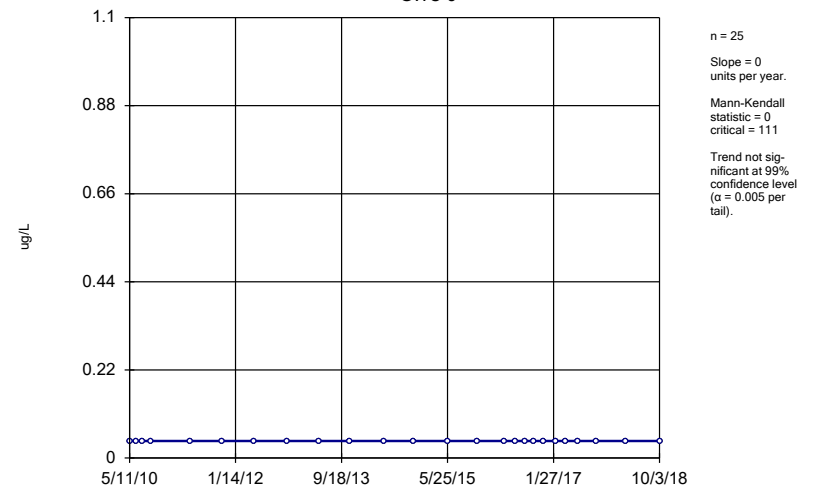
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-4



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

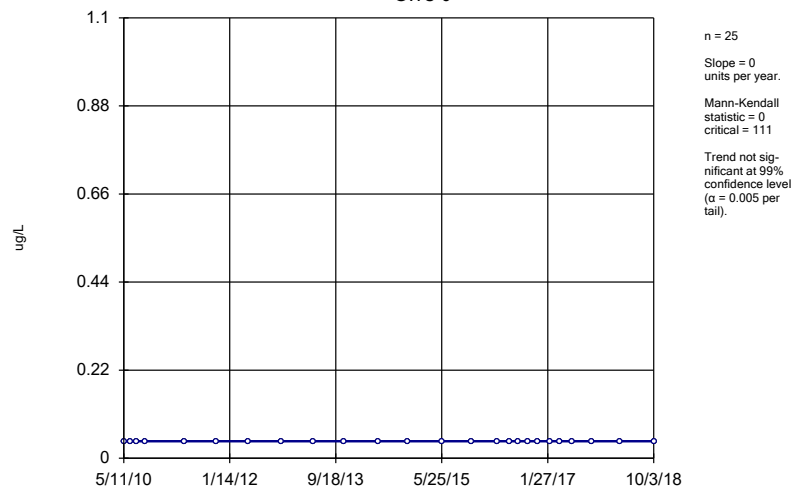
### Sen's Slope Estimator GWC-5



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

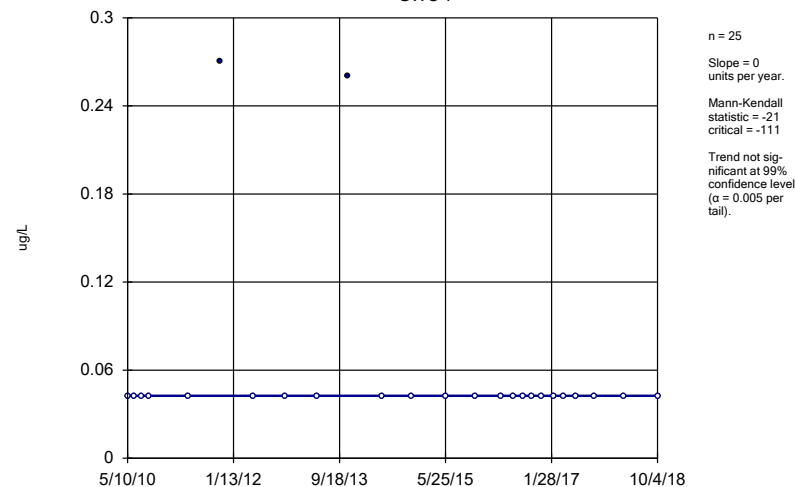
GWC-6



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

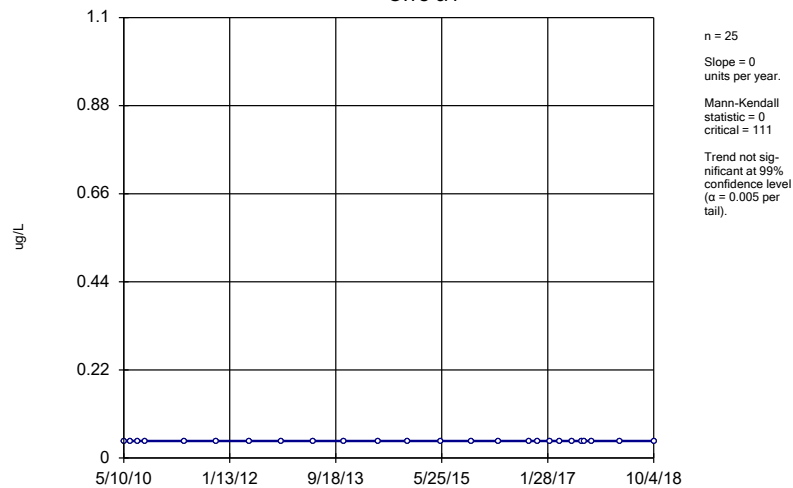
GWC-7



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

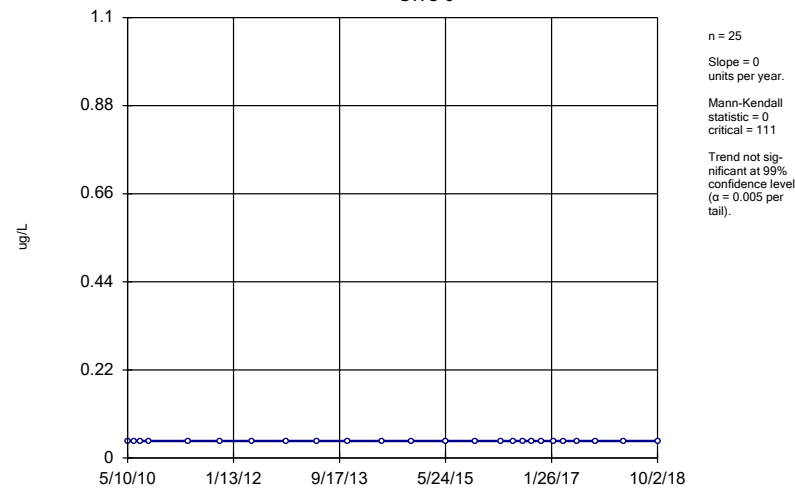
GWC-8A



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

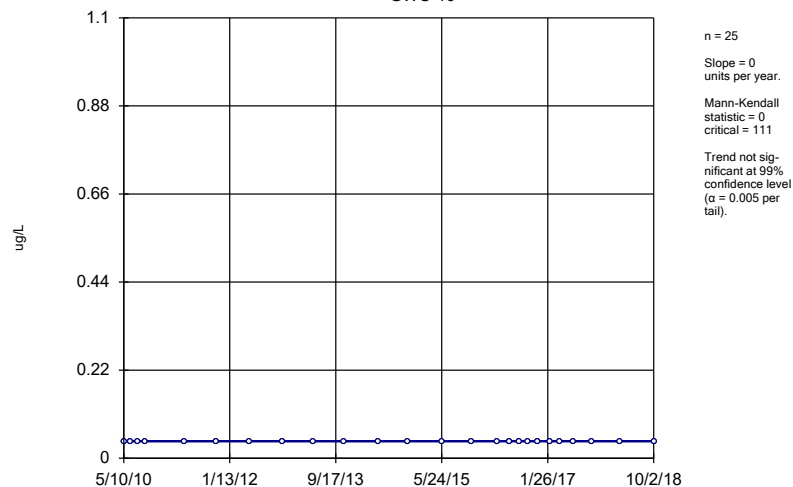
### Sen's Slope Estimator

GWC-9



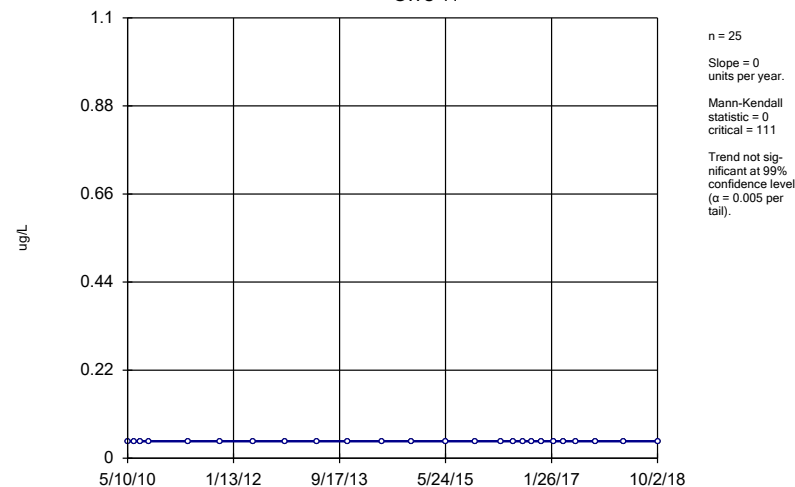
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-10



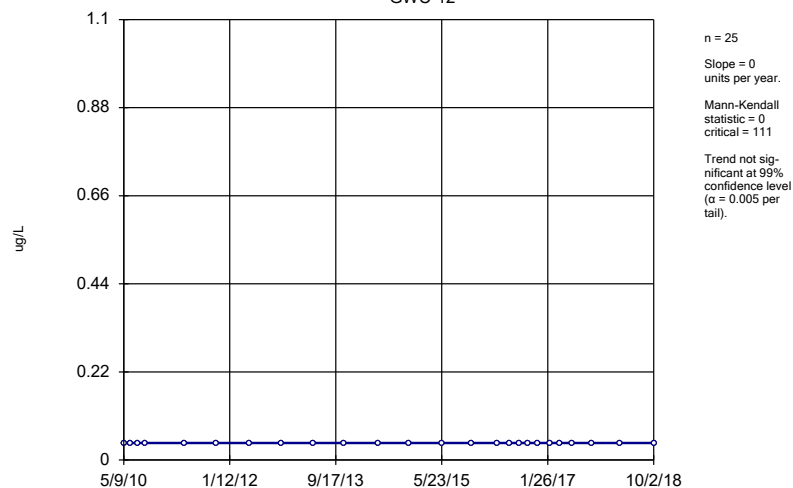
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-11



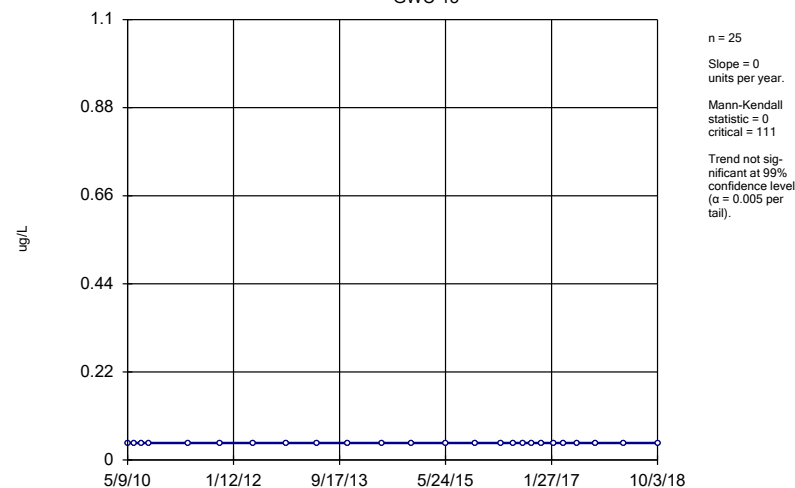
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-12



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

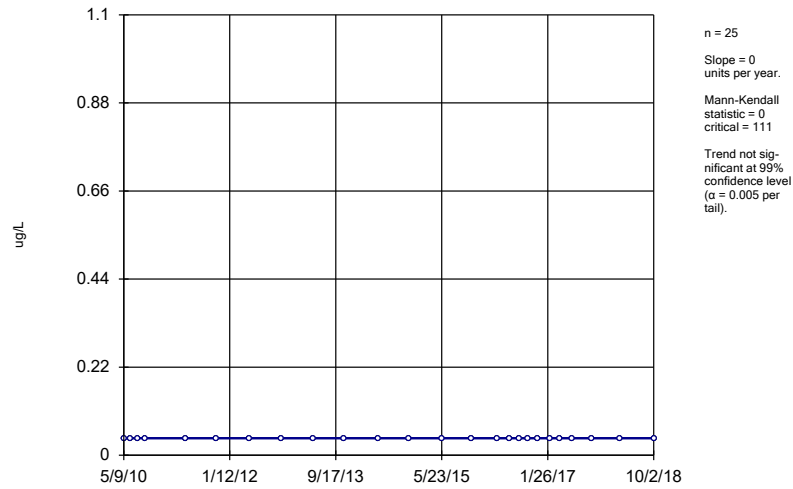
### Sen's Slope Estimator GWC-13



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

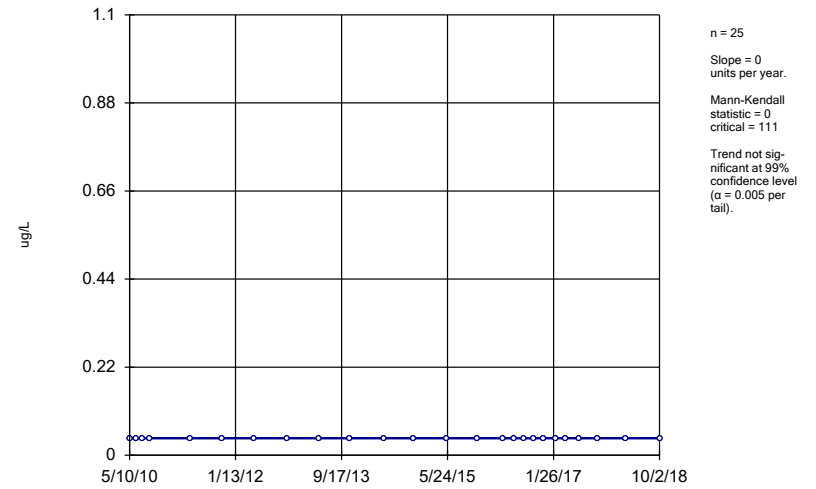


### Sen's Slope Estimator GWC-14



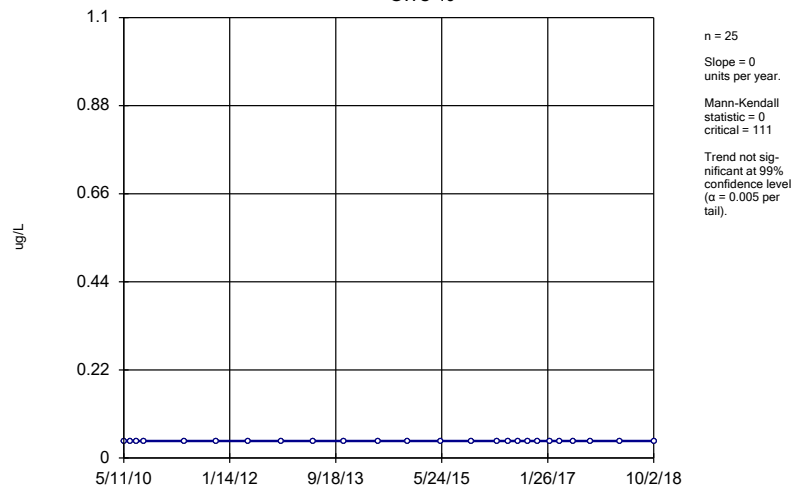
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-18



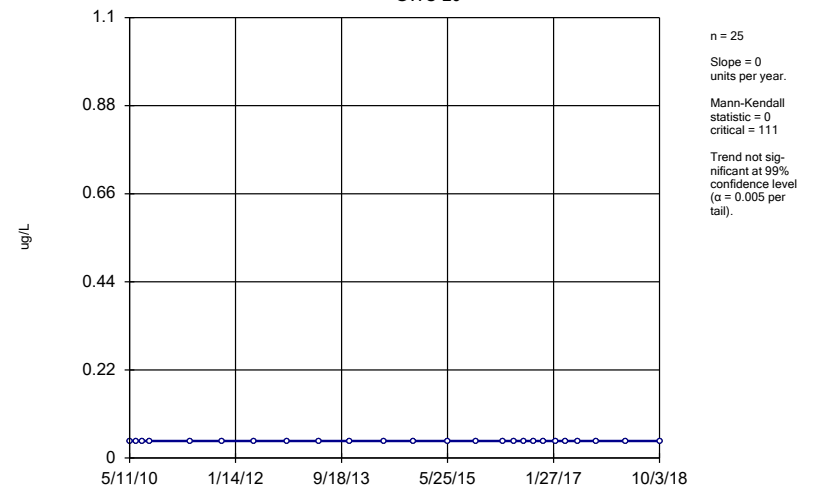
Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator GWC-19



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

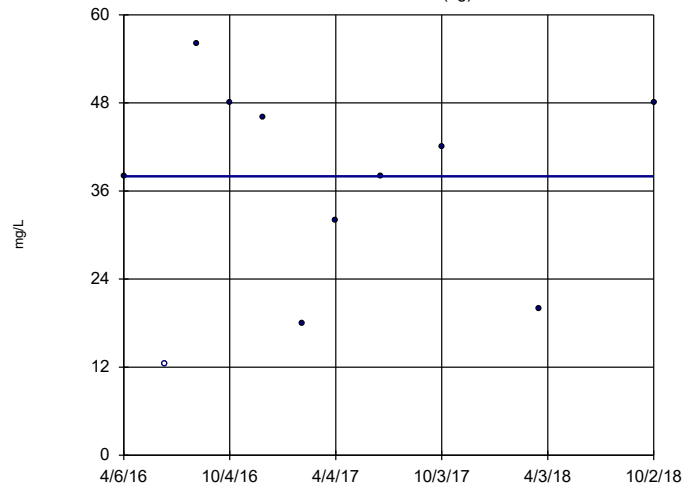
### Sen's Slope Estimator GWC-20



Constituent: Thallium, Total Analysis Run 4/23/2019 4:22 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

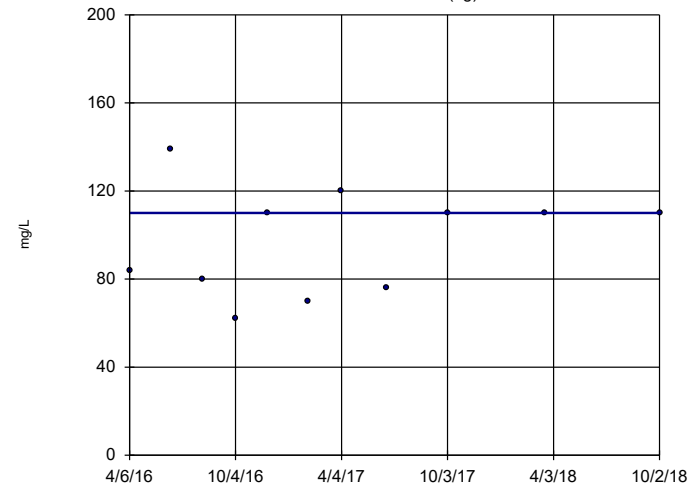


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 1  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

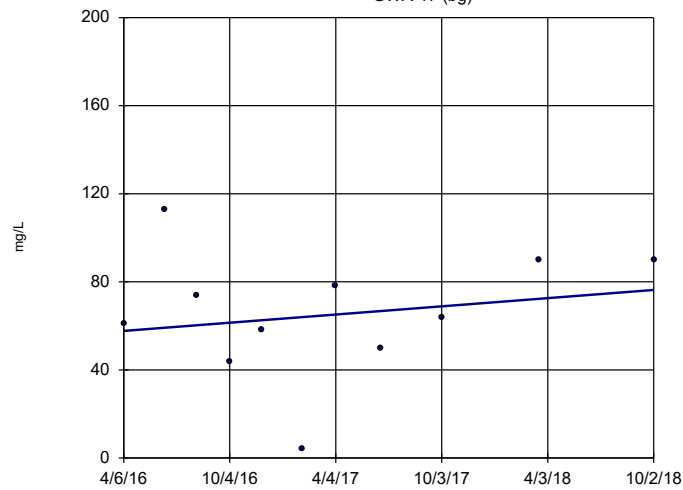


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 5  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

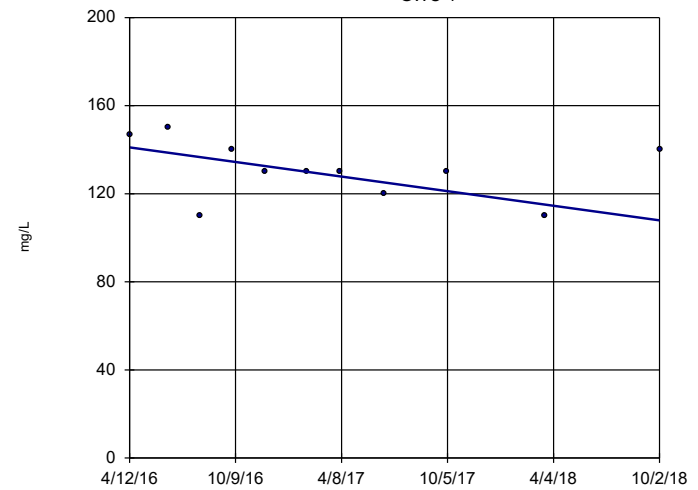


n = 11  
 Slope = 7.458  
 units per year.  
 Mann-Kendall  
 statistic = 8  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

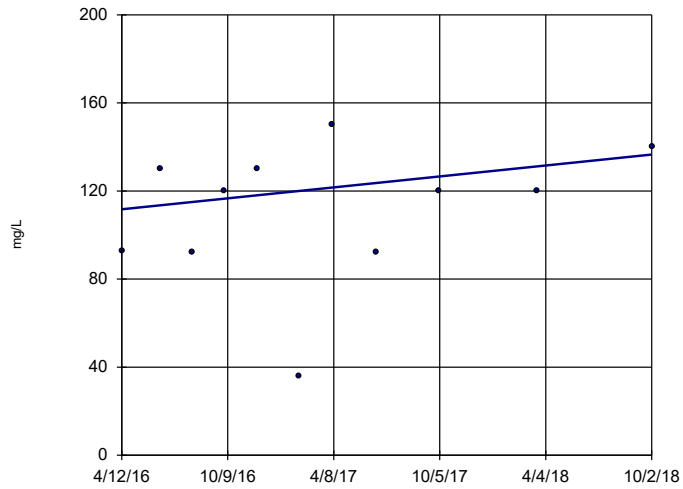


n = 11  
 Slope = -13.37  
 units per year.  
 Mann-Kendall  
 statistic = -17  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-2

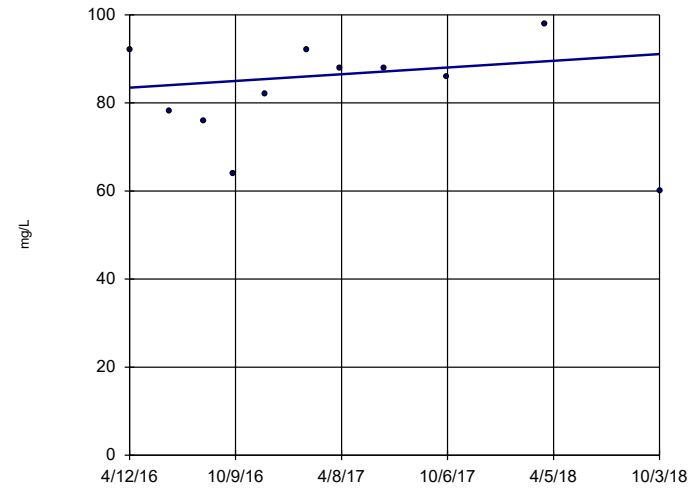


n = 11  
 Slope = 10.03 units per year.  
 Mann-Kendall statistic = 10  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-3

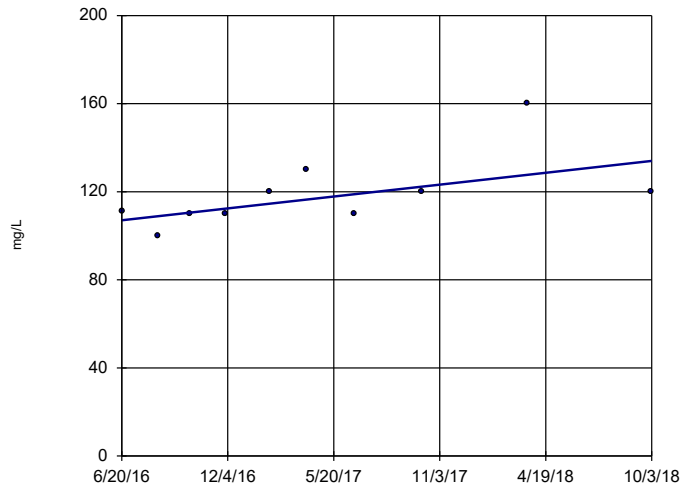


n = 11  
 Slope = 3.093 units per year.  
 Mann-Kendall statistic = 3  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-4

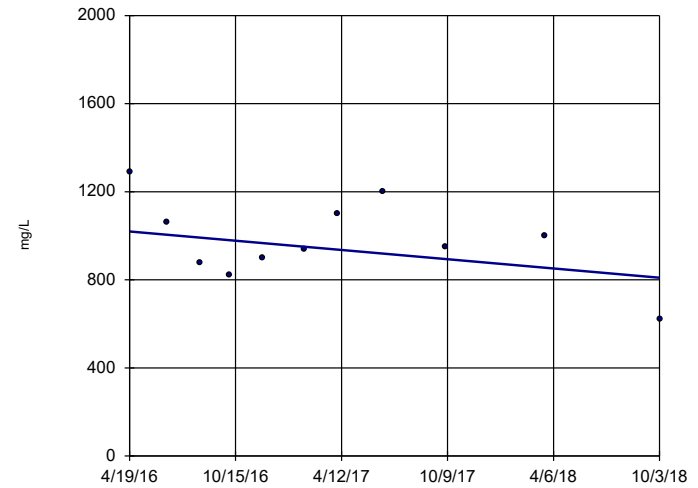


n = 10  
 Slope = 11.77 units per year.  
 Mann-Kendall statistic = 21  
 critical = 30  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

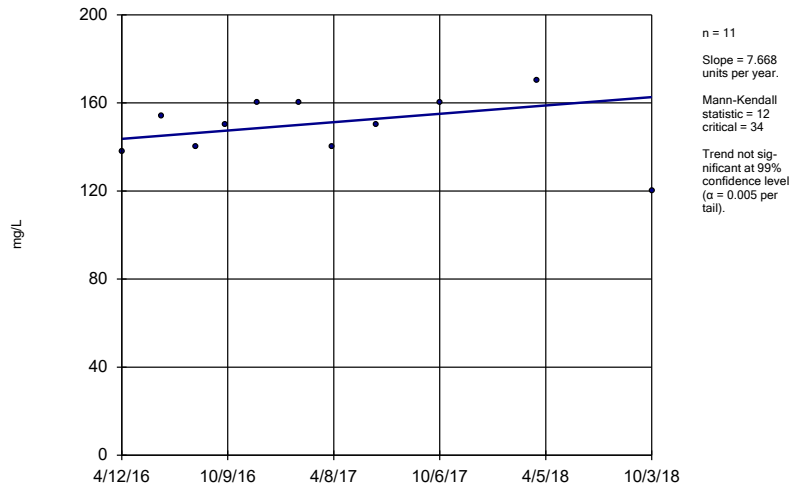


n = 11  
 Slope = -85.43 units per year.  
 Mann-Kendall statistic = -5  
 critical = -34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

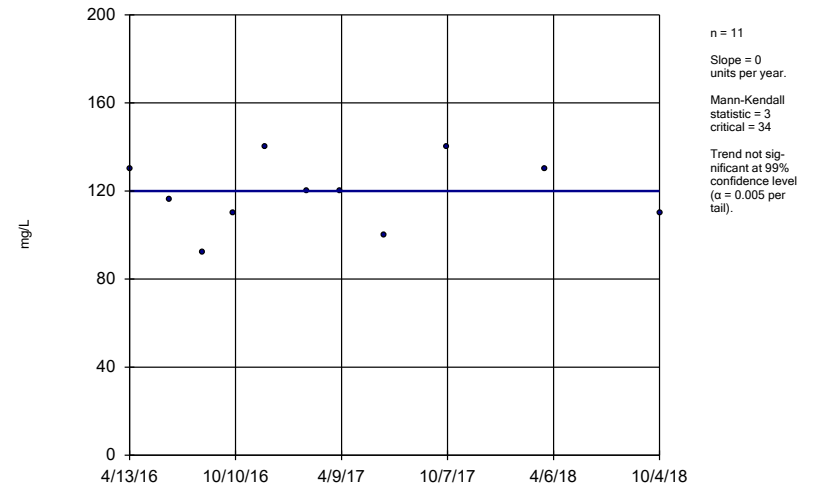
GWC-6



Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

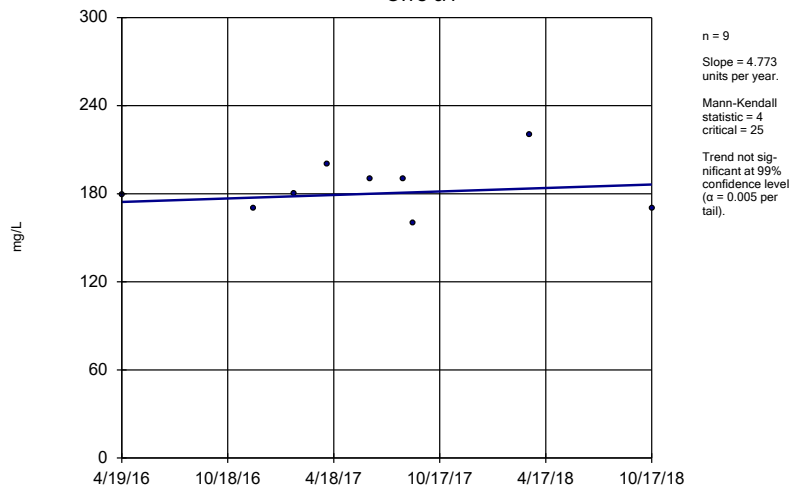
GWC-7



Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

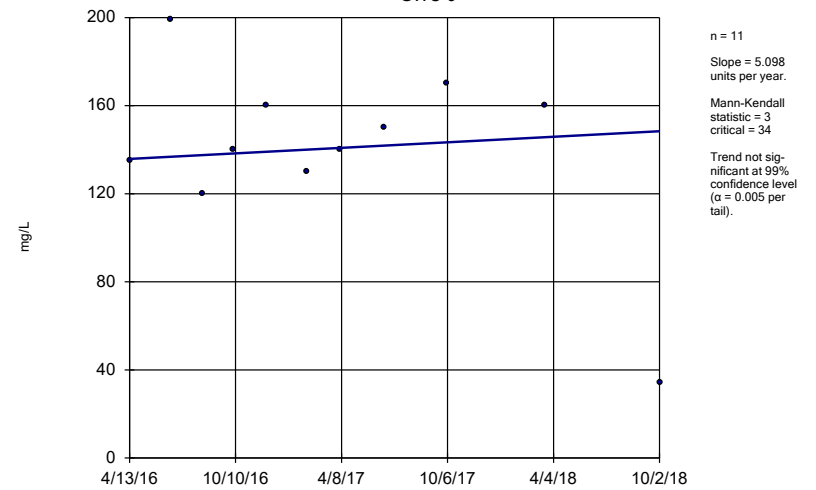
GWC-8A



Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

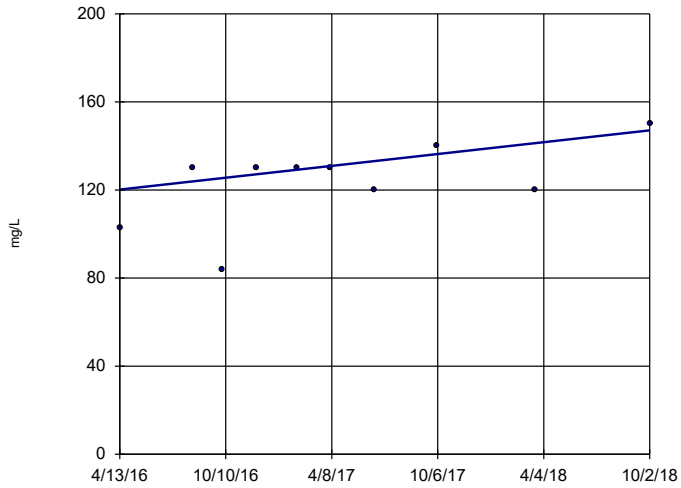
GWC-9



Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10

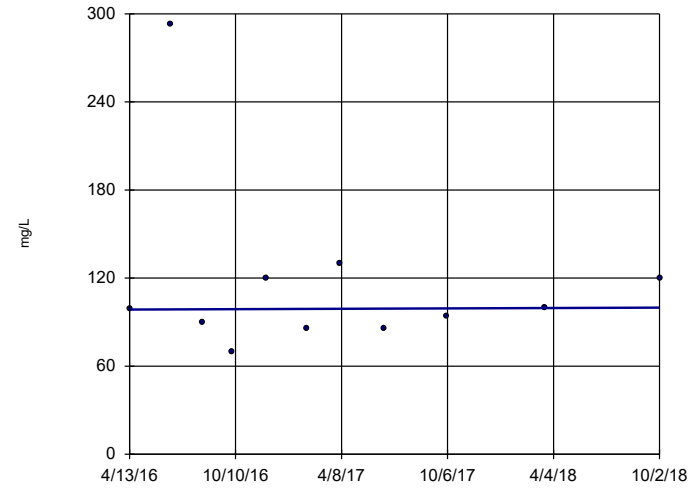


n = 10  
 Slope = 10.9 units per year.  
 Mann-Kendall statistic = 16  
 critical = 30  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-11

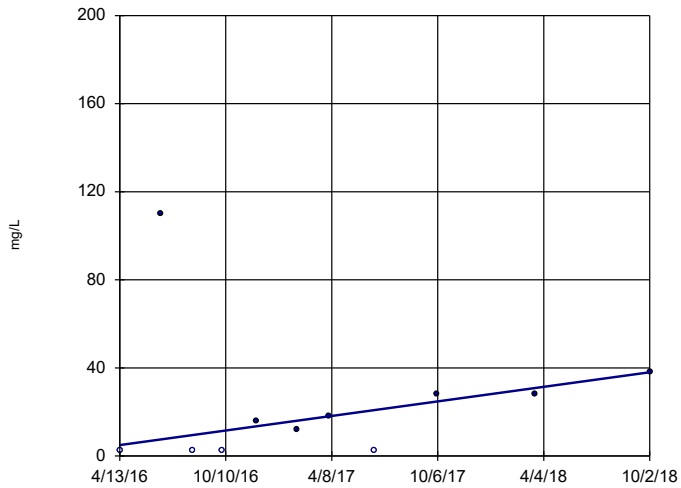


n = 11  
 Slope = 0.5163 units per year.  
 Mann-Kendall statistic = 3  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-12

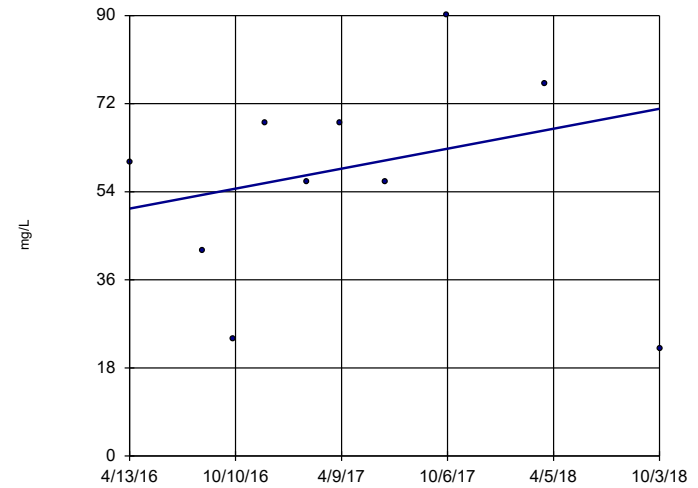


n = 11  
 Slope = 13.39 units per year.  
 Mann-Kendall statistic = 22  
 critical = 34  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-13

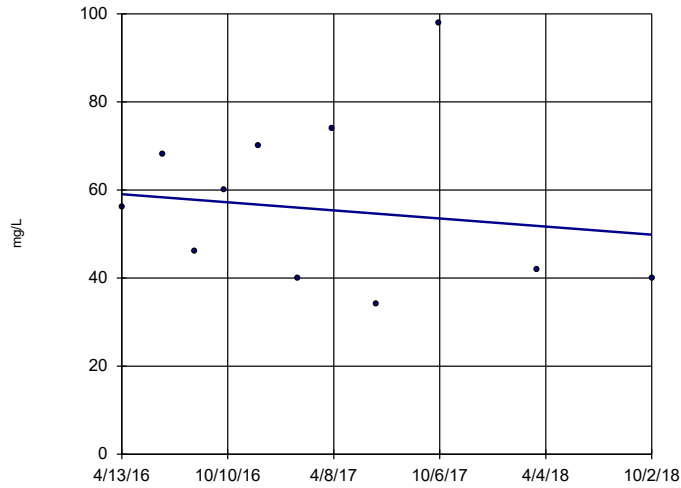


n = 10  
 Slope = 8.249 units per year.  
 Mann-Kendall statistic = 7  
 critical = 30  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-14

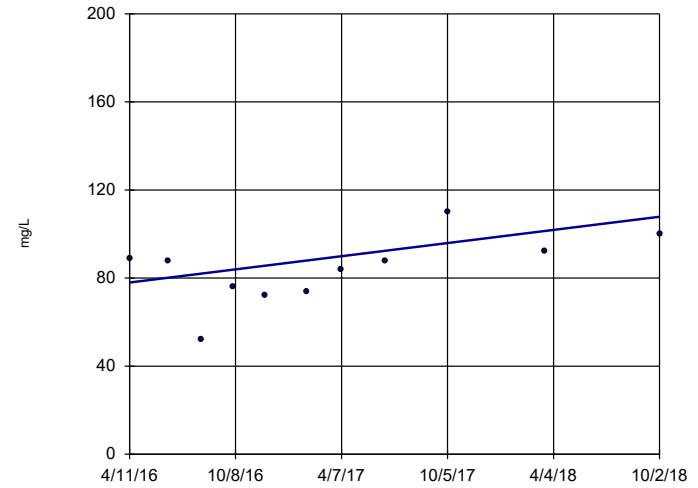


n = 11  
 Slope = -3.724  
 units per year.  
 Mann-Kendall  
 statistic = -6  
 critical = -34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-18

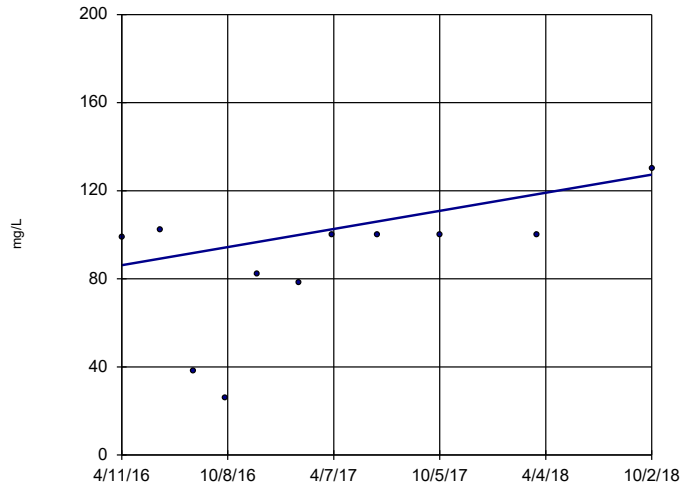


n = 11  
 Slope = 12.05  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-19

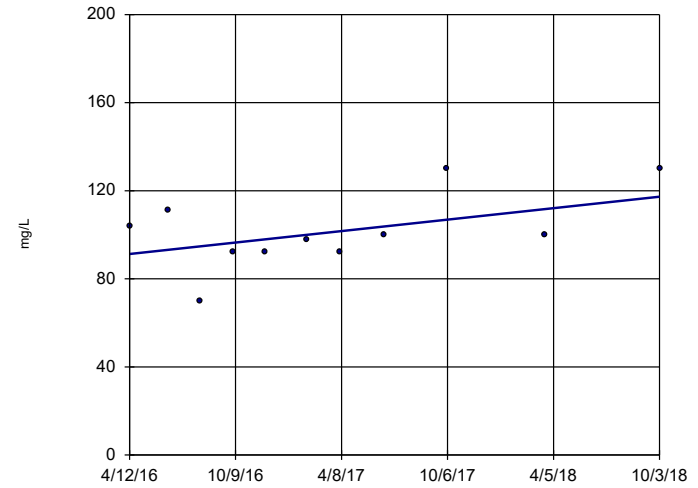


n = 11  
 Slope = 16.59  
 units per year.  
 Mann-Kendall  
 statistic = 21  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-20

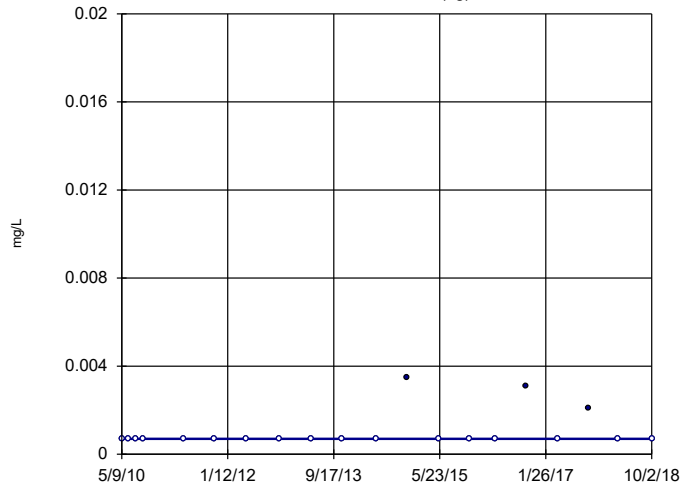


n = 11  
 Slope = 10.5  
 units per year.  
 Mann-Kendall  
 statistic = 18  
 critical = 34  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

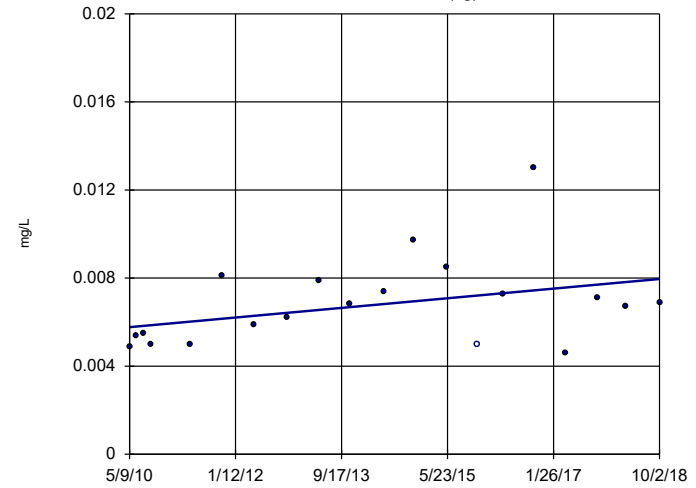


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 26  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

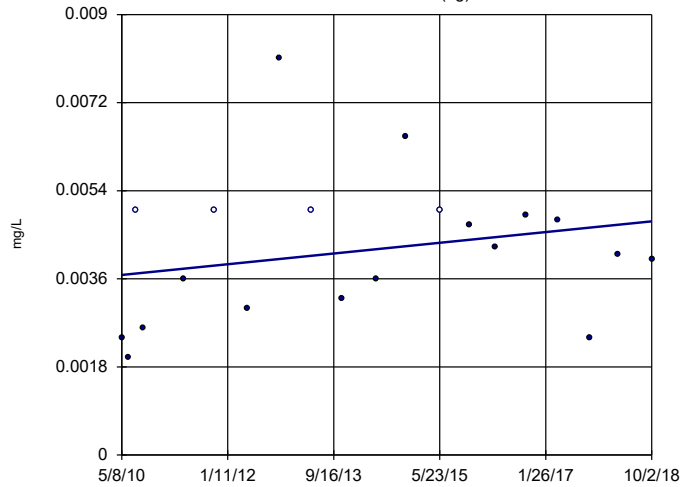


n = 20  
Slope = 0.0002608  
units per year.  
Mann-Kendall  
statistic = 53  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

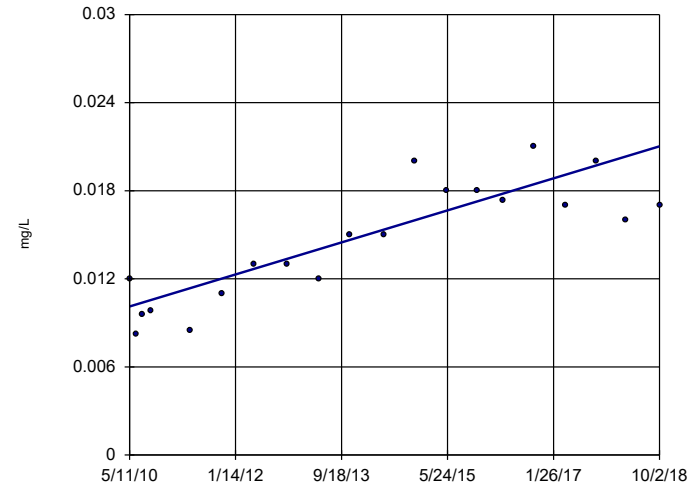


n = 20  
Slope = 0.0001299  
units per year.  
Mann-Kendall  
statistic = 20  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-1

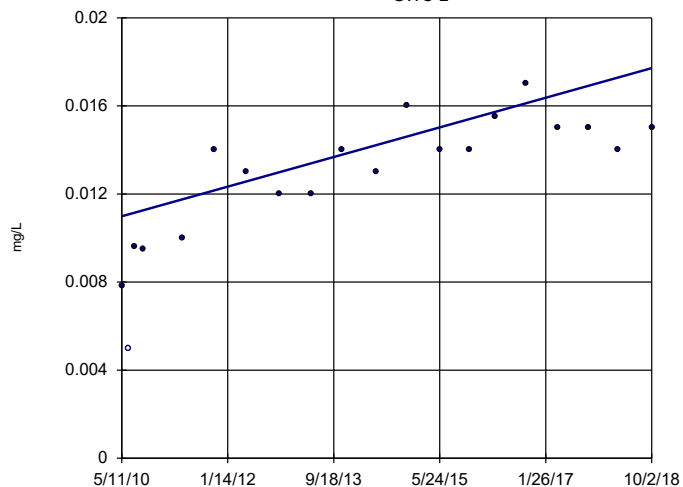


n = 20  
Slope = 0.001298  
units per year.  
Mann-Kendall  
statistic = 118  
critical = 81  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

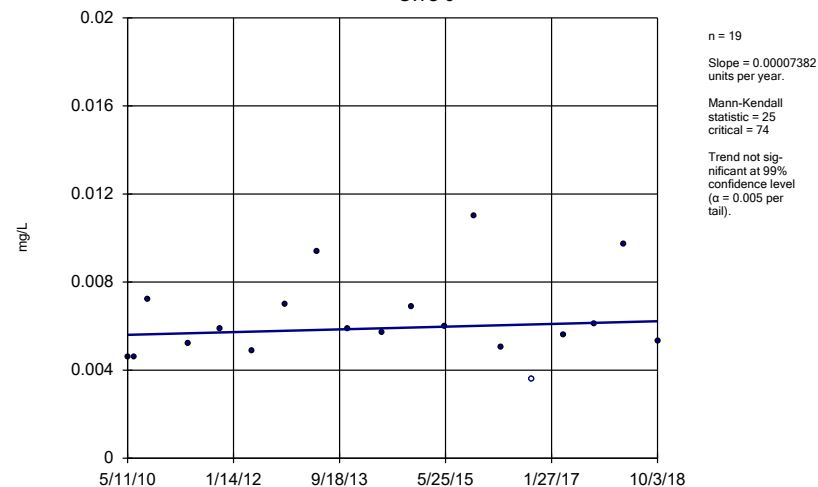
GWC-2



Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

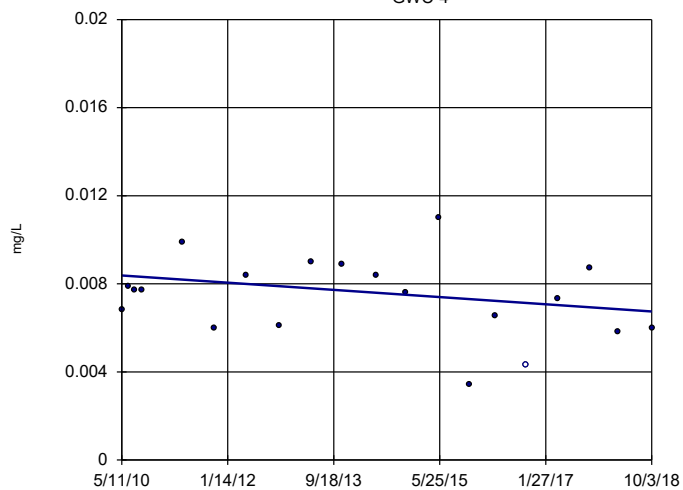
GWC-3



Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

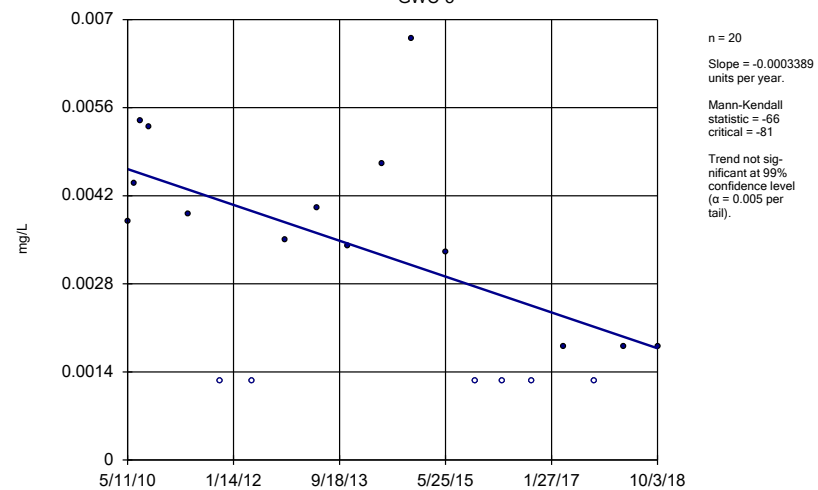
GWC-4



Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-5

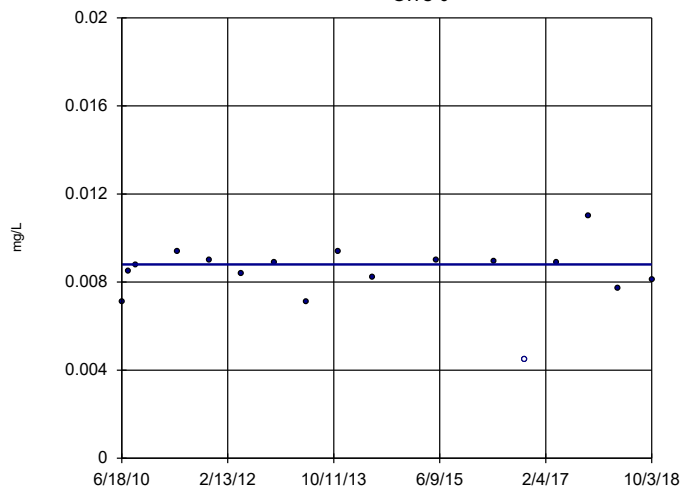


Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



### Sen's Slope Estimator

GWC-6

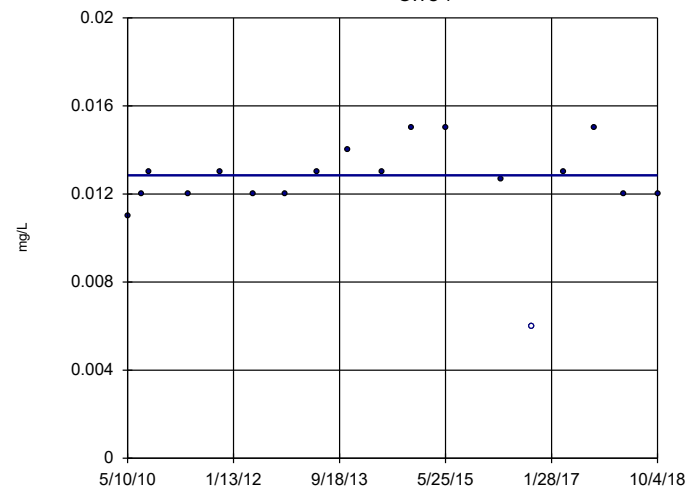


n = 17  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -2  
critical = -63  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-7

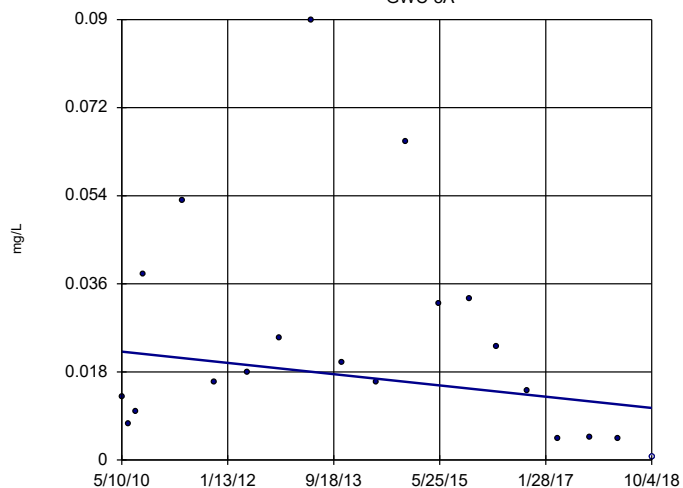


n = 18  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 27  
critical = 68  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-8A

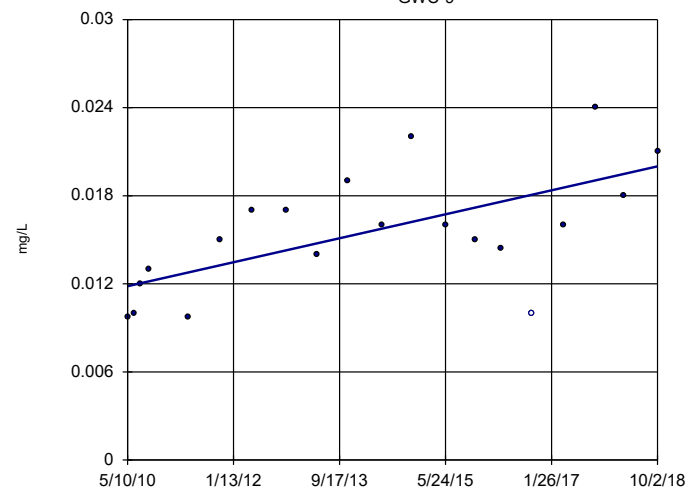


n = 20  
Slope = -0.001369  
units per year.  
Mann-Kendall  
statistic = -41  
critical = -81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-9

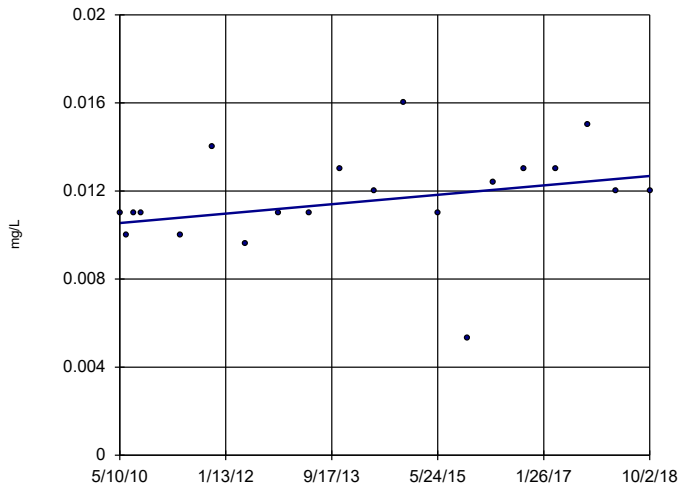


n = 20  
Slope = 0.0009713  
units per year.  
Mann-Kendall  
statistic = 87  
critical = 81  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWC-10



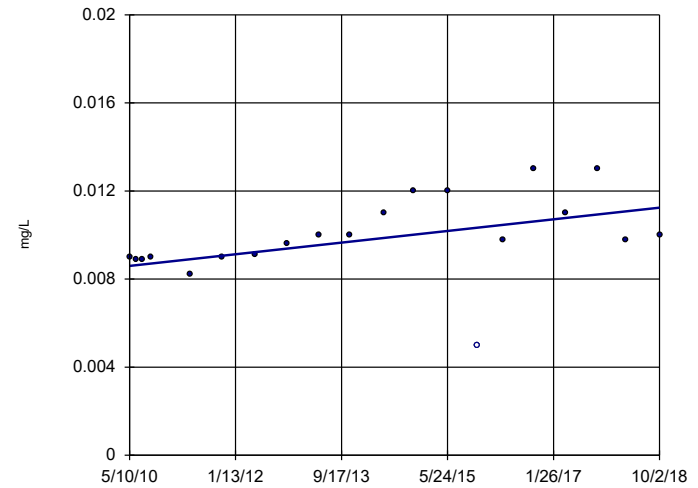
n = 20  
 Slope = 0.0002537  
 units per year.  
 Mann-Kendall  
 statistic = 60  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GWC-11



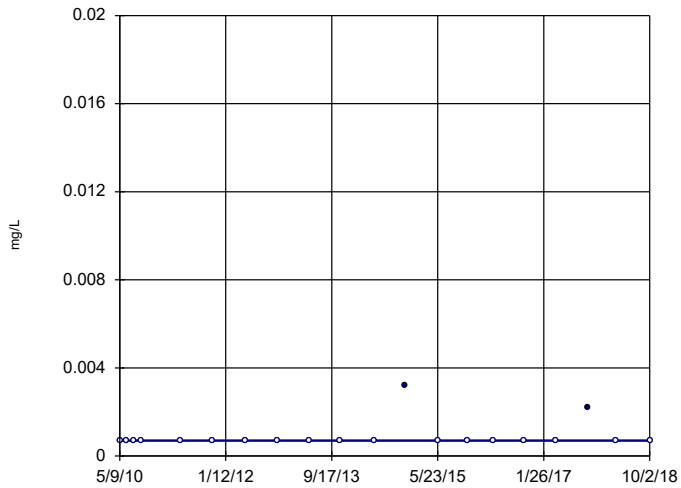
n = 20  
 Slope = 0.0003152  
 units per year.  
 Mann-Kendall  
 statistic = 98  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GWC-12



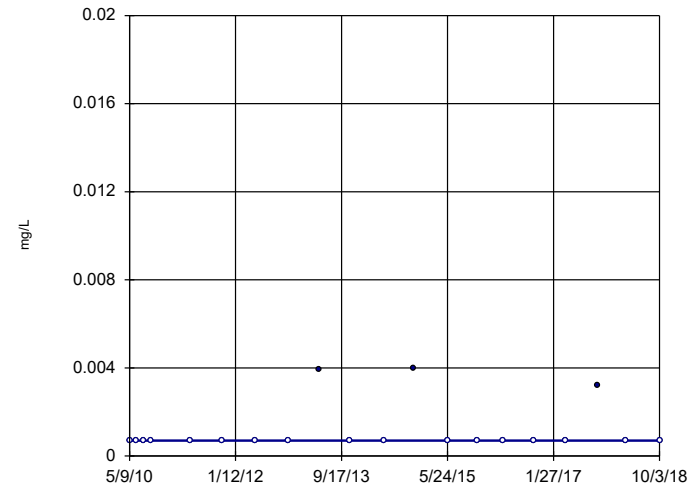
n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 17  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Hollow symbols indicate censored values.

### Sen's Slope Estimator

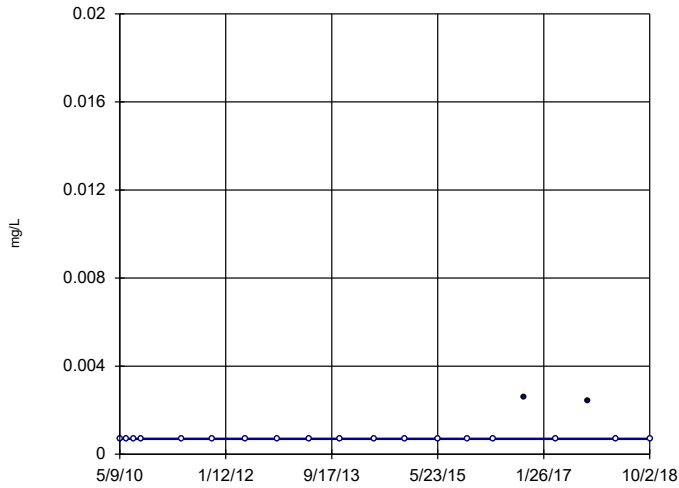
GWC-13



n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

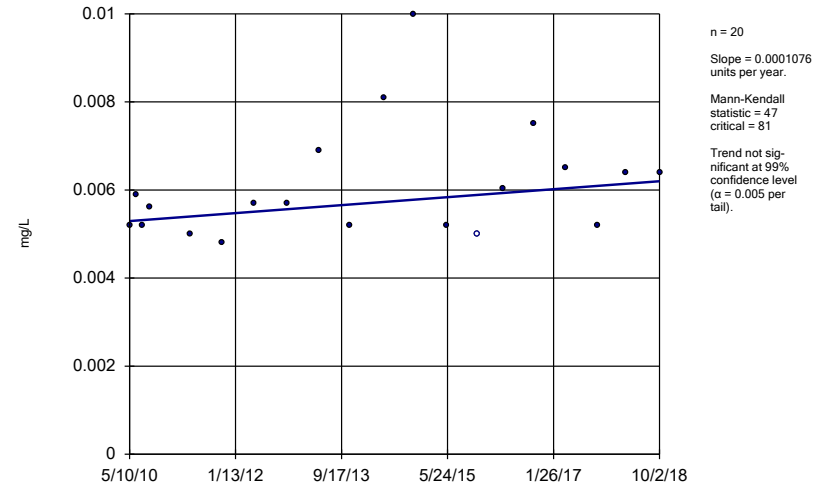
Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-14



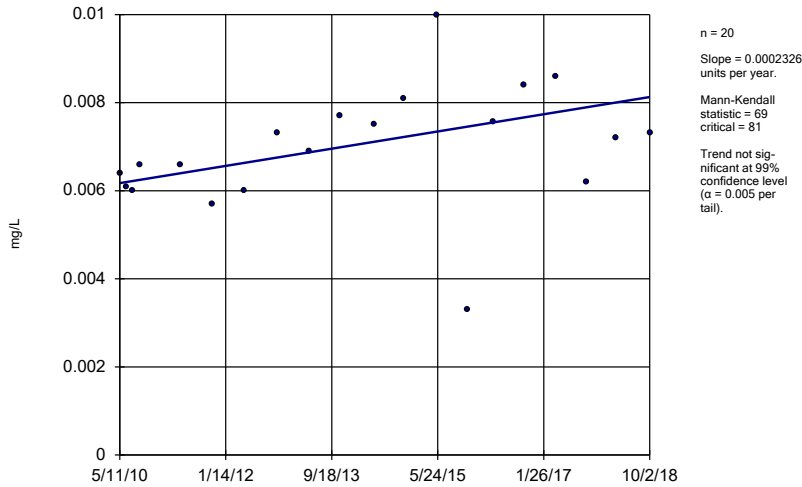
Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-18



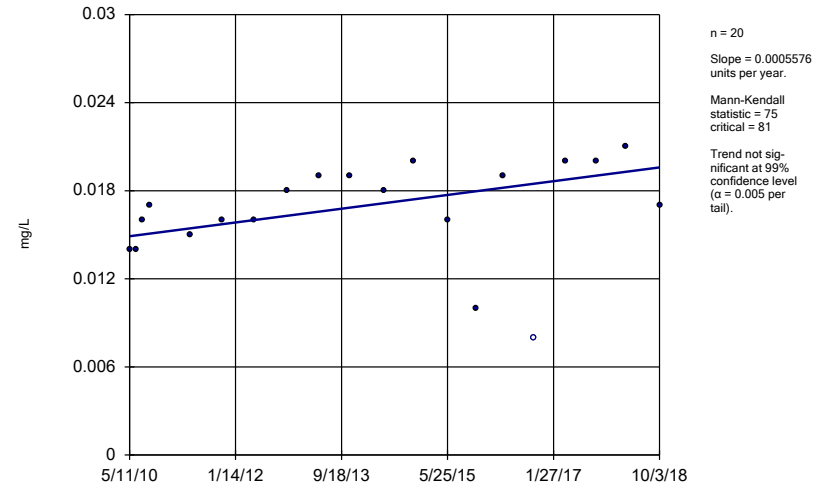
Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
 GWC-19



Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

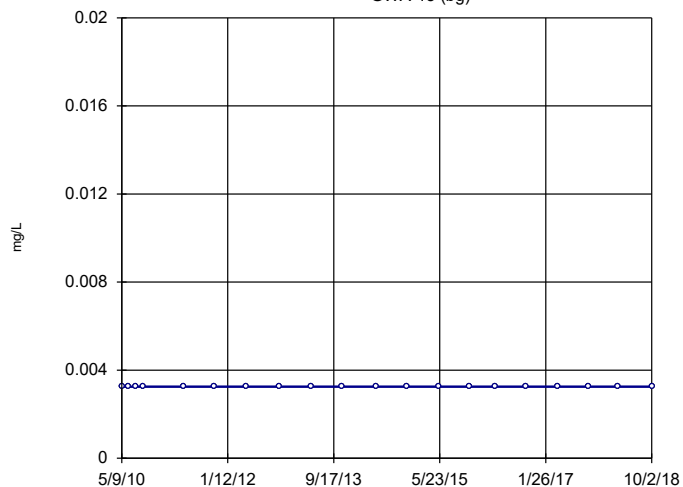
Sen's Slope Estimator  
 GWC-20



Constituent: Vanadium Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-15 (bg)

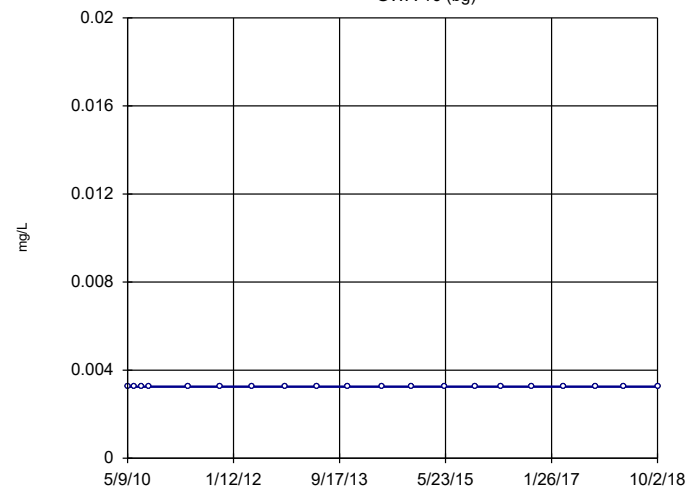


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-16 (bg)

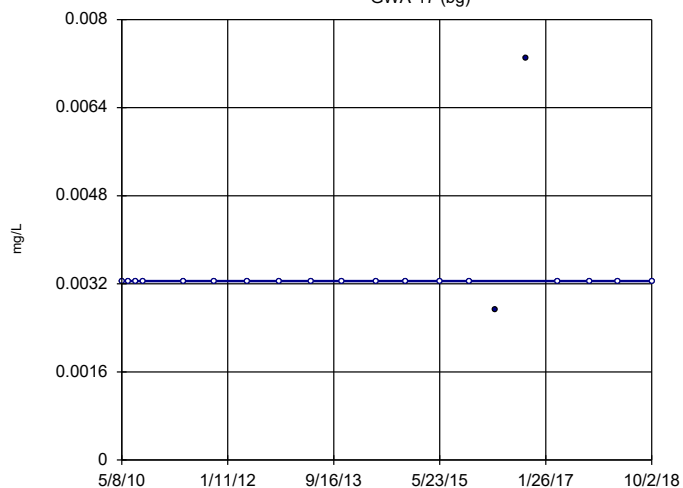


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

GWA-17 (bg)

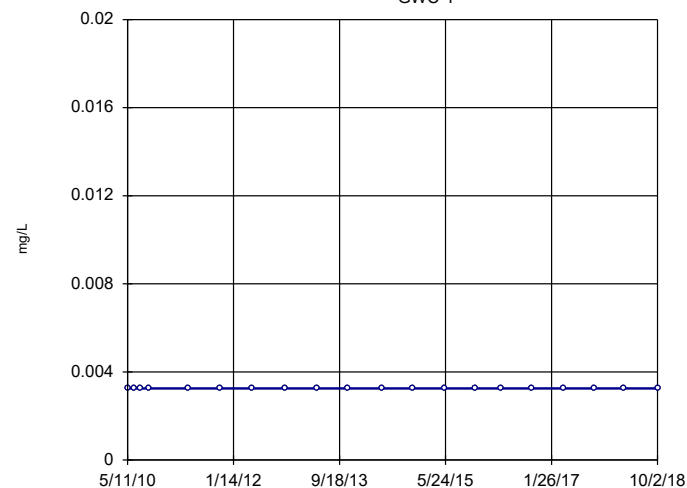


n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 1  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

### Sen's Slope Estimator

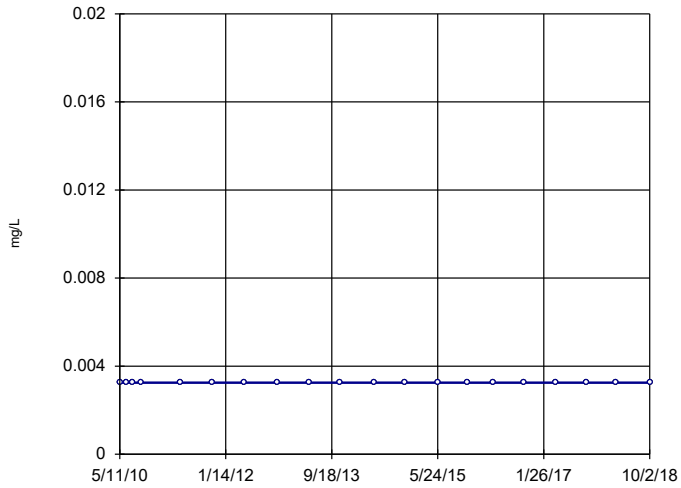
GWC-1



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

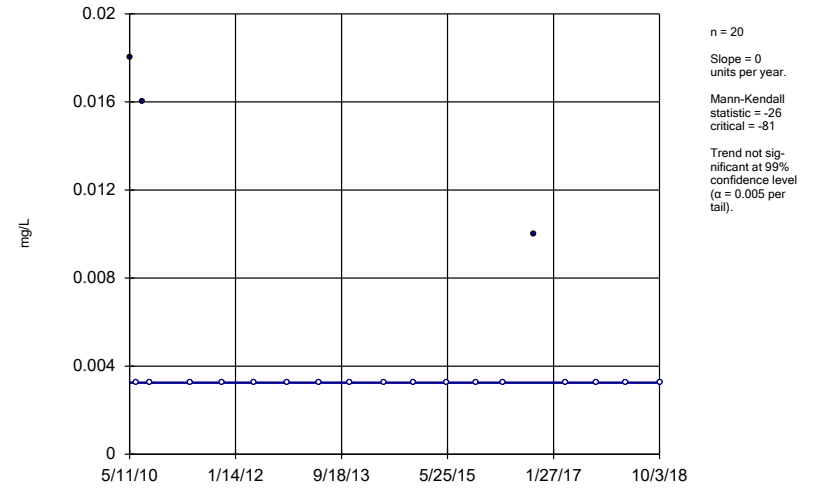
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-2



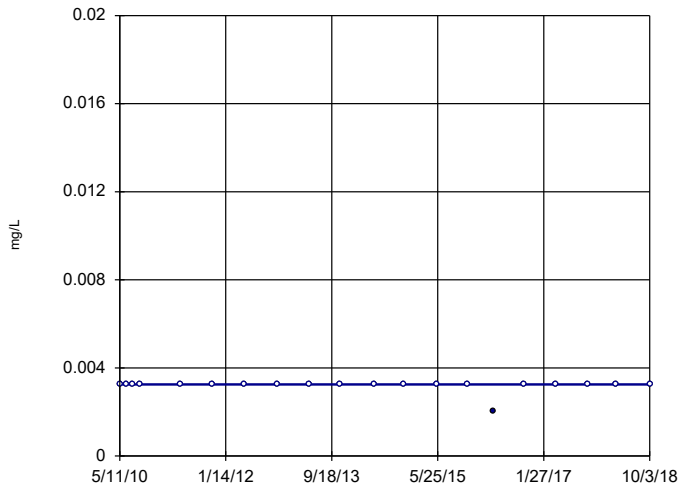
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-3



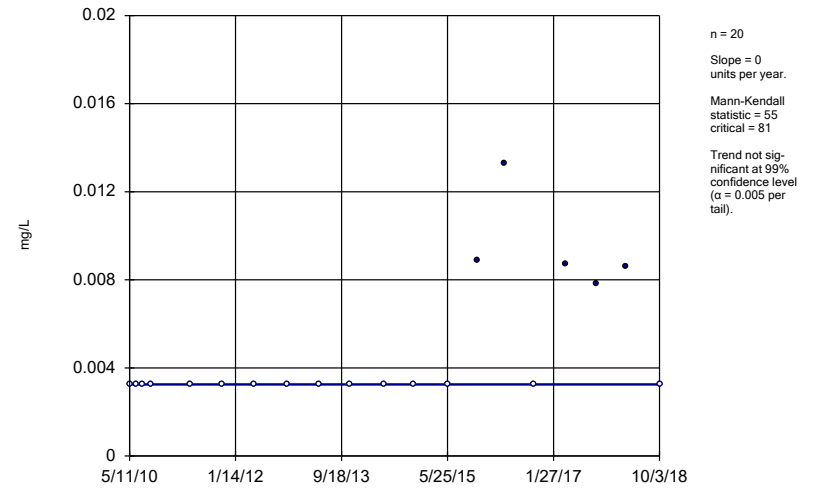
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-4



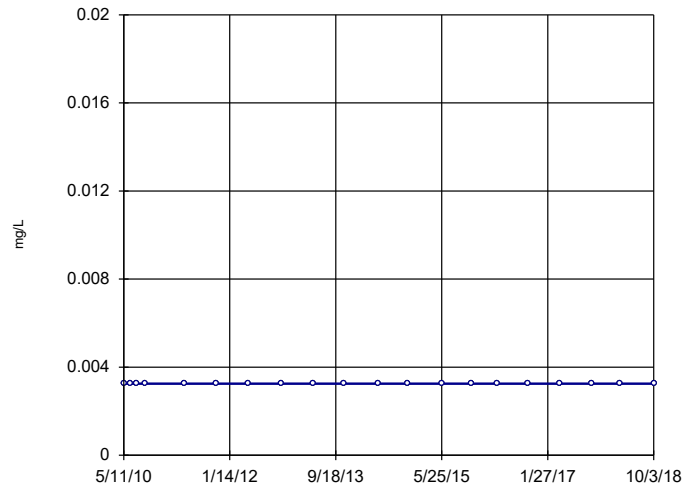
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-5



Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

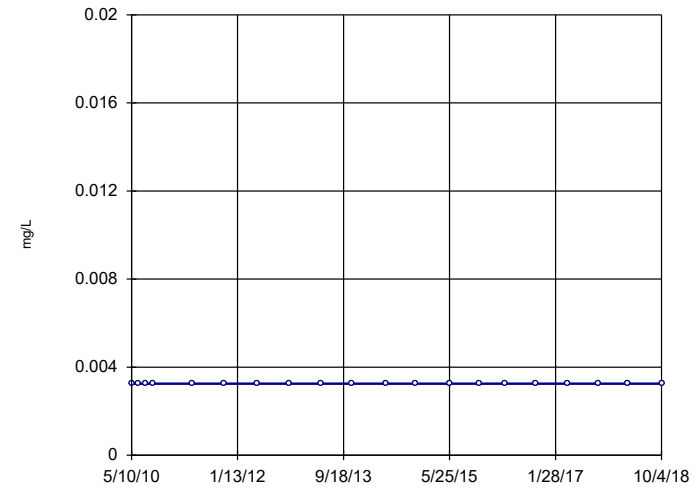
### Sen's Slope Estimator GWC-6



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

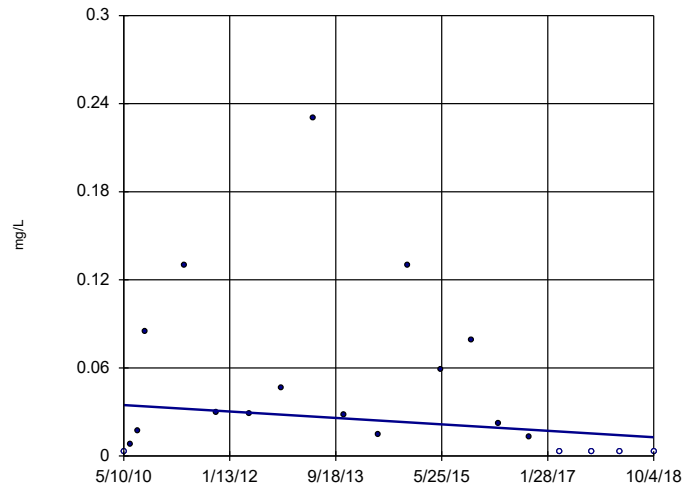
### Sen's Slope Estimator GWC-7



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

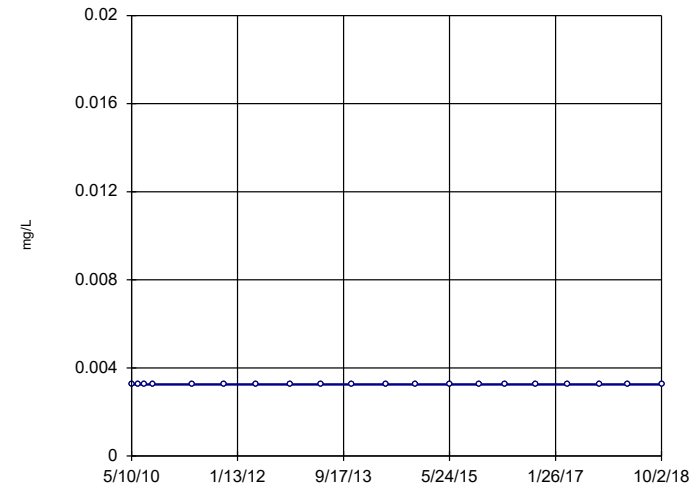
### Sen's Slope Estimator GWC-8A



n = 20  
Slope = -0.002608  
units per year.  
Mann-Kendall  
statistic = -47  
critical = -81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

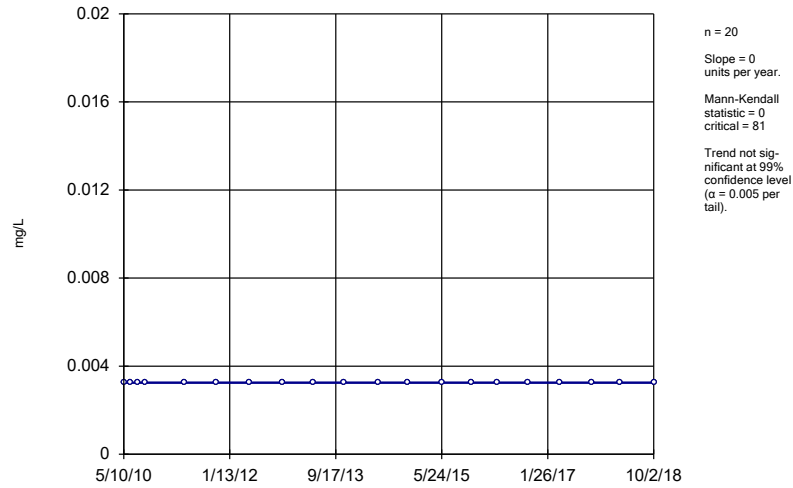
### Sen's Slope Estimator GWC-9



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

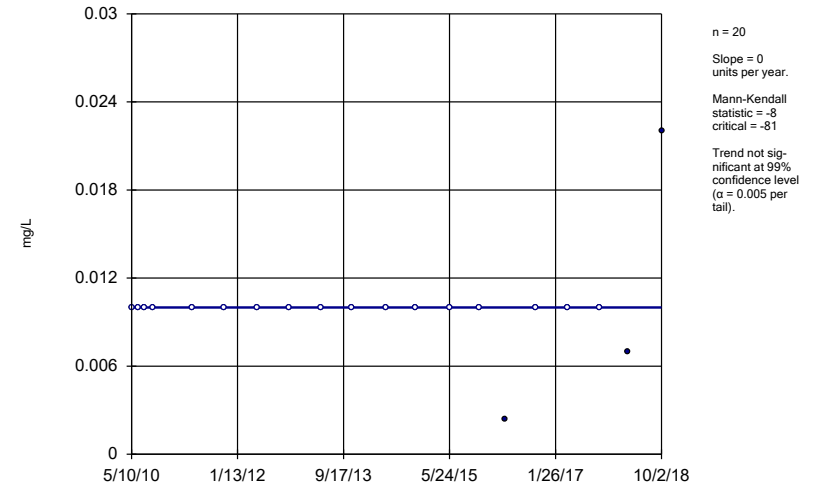
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-10



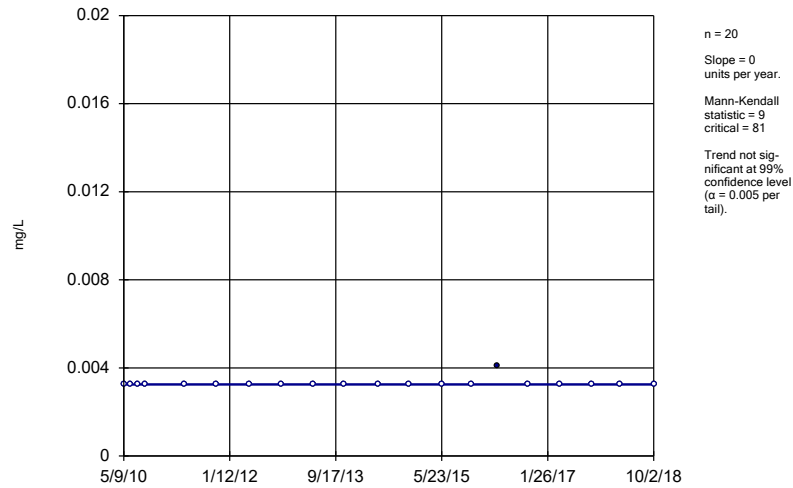
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-11



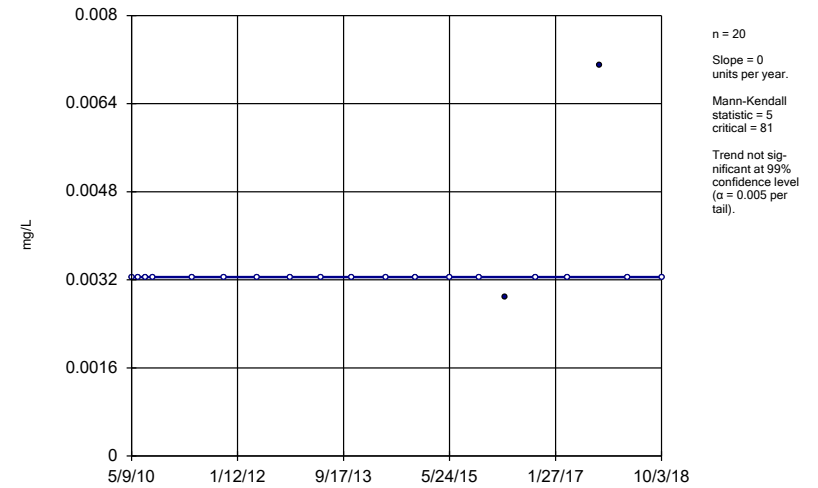
Constituent: Zinc Analysis Run 4/23/2019 4:23 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-12



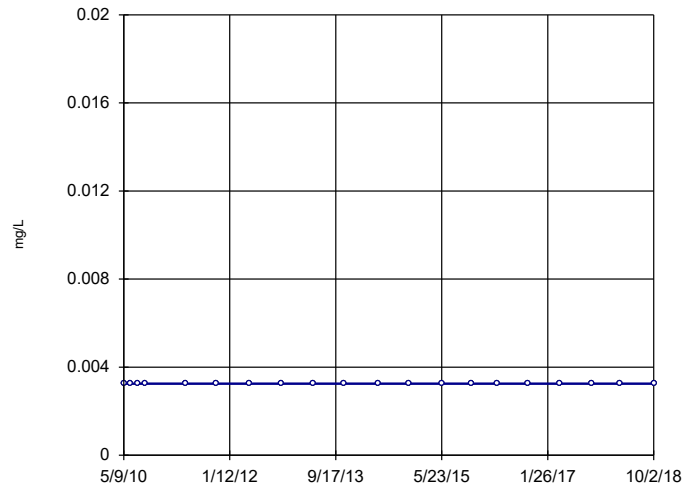
Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-13



Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

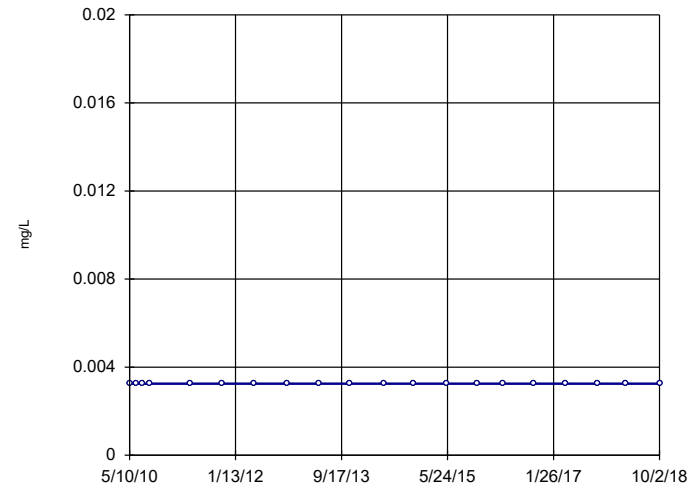
Sen's Slope Estimator  
GWC-14



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

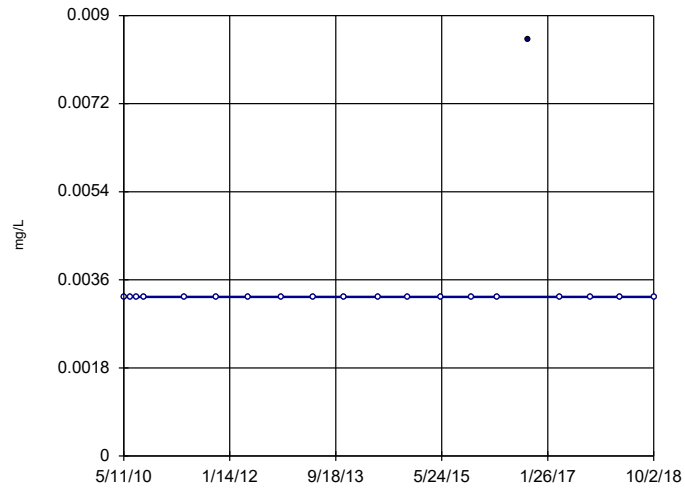
Sen's Slope Estimator  
GWC-18



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

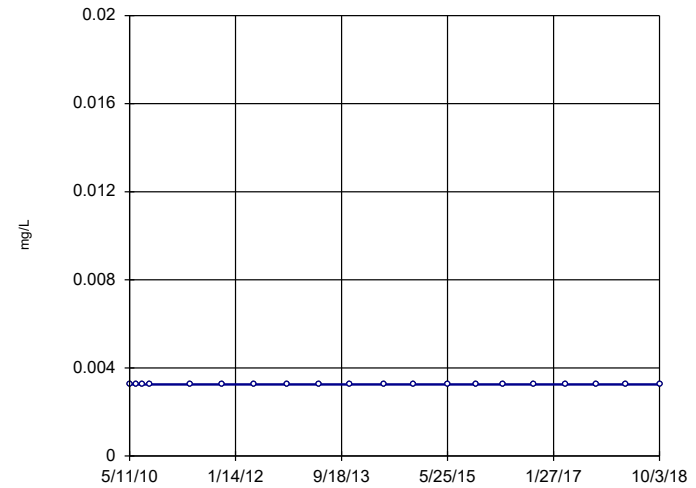
Sen's Slope Estimator  
GWC-19



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 11  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR

Sen's Slope Estimator  
GWC-20



n = 20  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Zinc Analysis Run 4/23/2019 4:24 PM View: LF Intra-Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 CCR



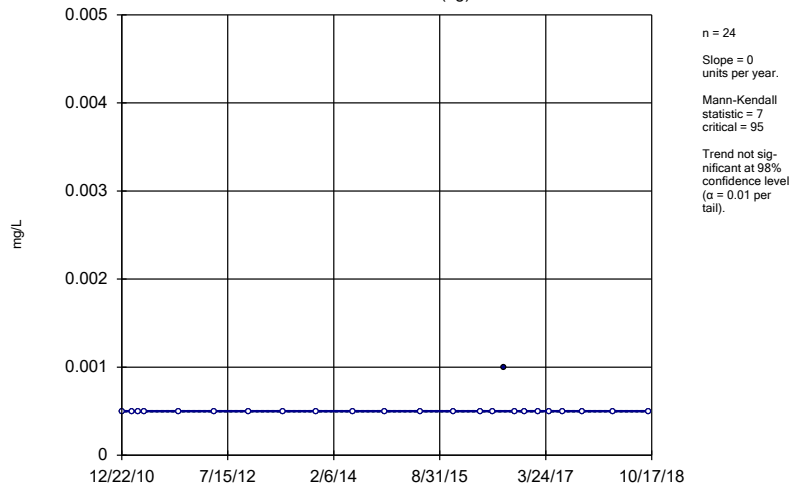
# Trend Test

Scherer Client: Golder Associates Data: Scherer Cell 1 CCR Printed 4/23/2019, 4:27 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium, Total (ug/L)	GWA-16 (bg)	-0.7605	-188	-111	Yes	25	0	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWA-17 (bg)	-1.833	-179	-111	Yes	25	4	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-1	-1.174	-151	-111	Yes	25	0	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-4	1.45	165	111	Yes	25	0	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-7	0.6797	123	111	Yes	25	0	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-8A	-5.75	-171	-111	Yes	25	0	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-10	0.7252	135	111	Yes	25	8	n/a	n/a	0.01	NP
Barium, Total (ug/L)	GWC-18	-0.8117	-171	-111	Yes	25	4	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-5	0.08435	33	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-4	2.391	35	34	Yes	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-8A	8.99	35	30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-13	0.5619	37	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-16 (bg)	-0.1798	-39	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-17 (bg)	-0.1576	-37	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2	-0.1984	-43	-34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-3	0.2874	39	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4	4.598	46	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-10	0.1573	35	34	Yes	11	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-12	-0.1185	-40	-34	Yes	11	0	n/a	n/a	0.01	NP
Chromium, Total (ug/L)	GWC-1	0.8669	175	111	Yes	25	0	n/a	n/a	0.01	NP
Chromium, Total (ug/L)	GWC-4	-0.3733	-112	-111	Yes	25	4	n/a	n/a	0.01	NP
Chromium, Total (ug/L)	GWC-10	1.057	227	111	Yes	25	0	n/a	n/a	0.01	NP
Chromium, Total (ug/L)	GWC-11	-0.3917	-116	-111	Yes	25	4	n/a	n/a	0.01	NP
Chromium, Total (ug/L)	GWC-19	0.4972	124	111	Yes	25	4	n/a	n/a	0.01	NP
Selenium, Total (ug/L)	GWC-5	4.299	160	111	Yes	25	48	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-10	0.3059	35	34	Yes	11	27.27	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWC-1	0.001298	118	81	Yes	20	0	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWC-2	0.000...	123	81	Yes	20	5	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWC-9	0.000...	87	81	Yes	20	5	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWC-11	0.000...	98	81	Yes	20	5	n/a	n/a	0.01	NP

### Sen's Slope and 95% Confidence Band

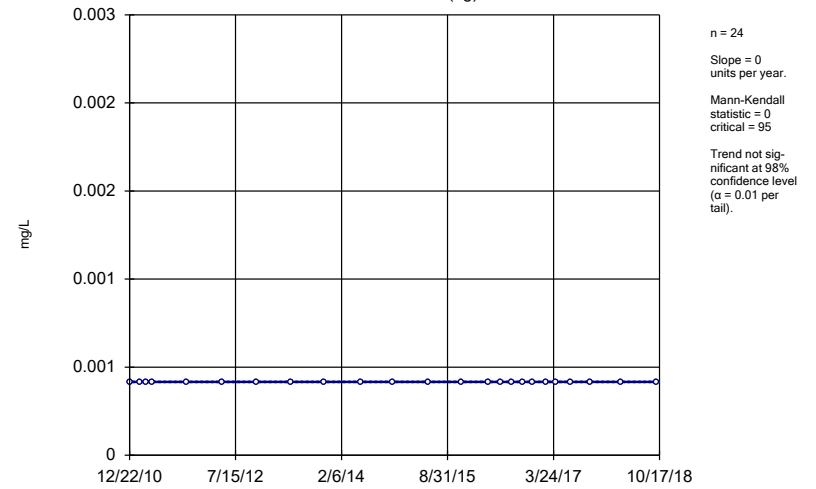
GWA-21 (bg)



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

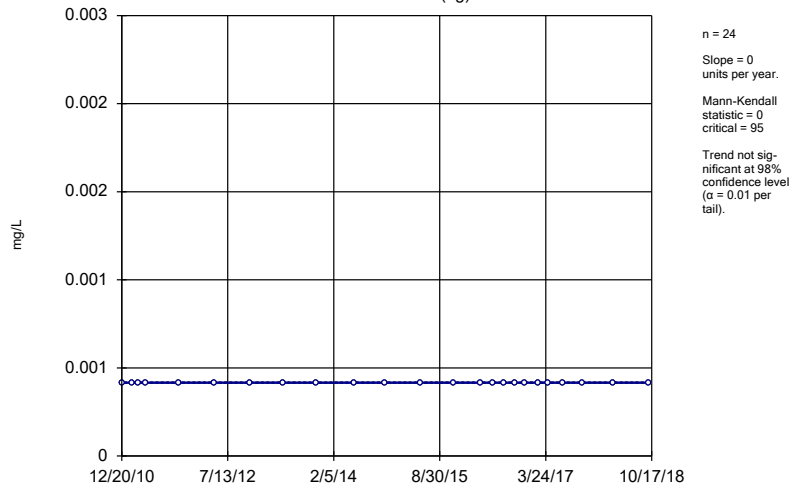
GWA-22 (bg)



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

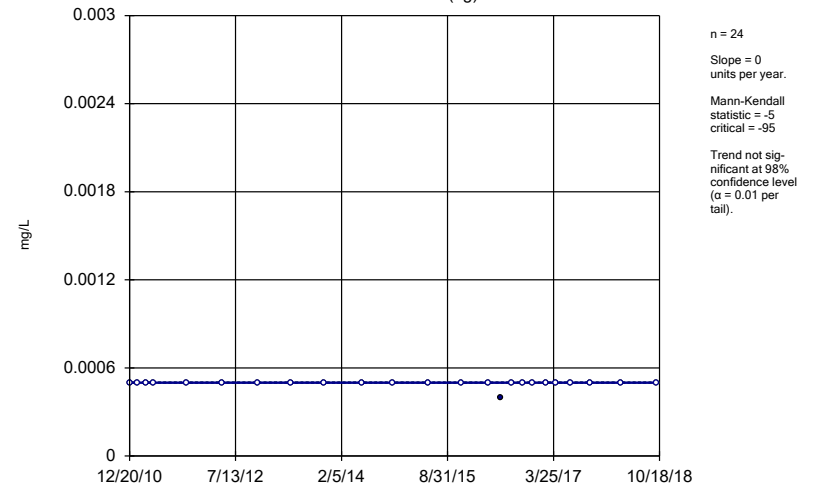
GWA-45 (bg)



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

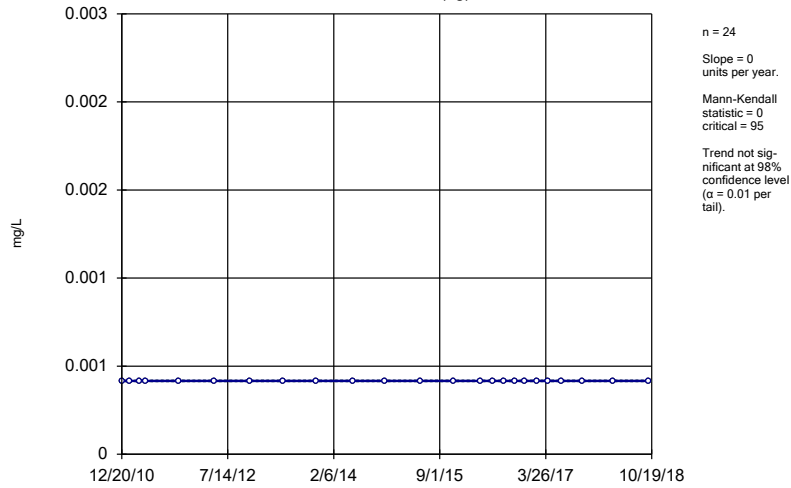
### Sen's Slope and 95% Confidence Band

GWA-46 (bg)



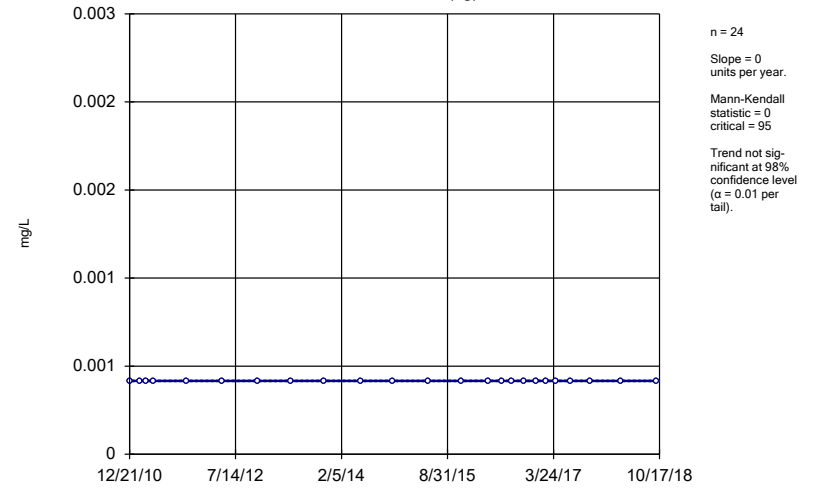
Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



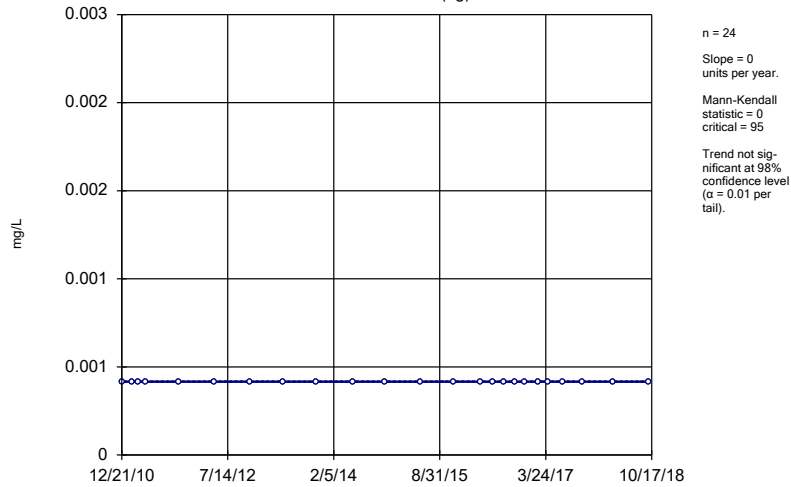
Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



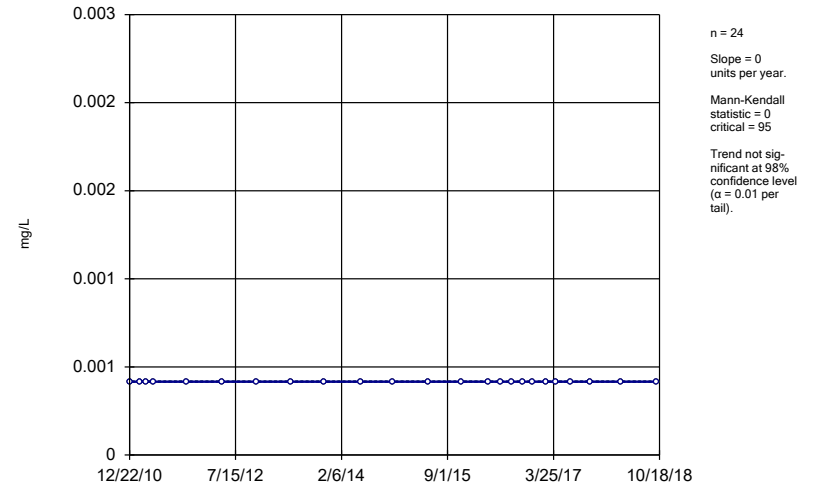
Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

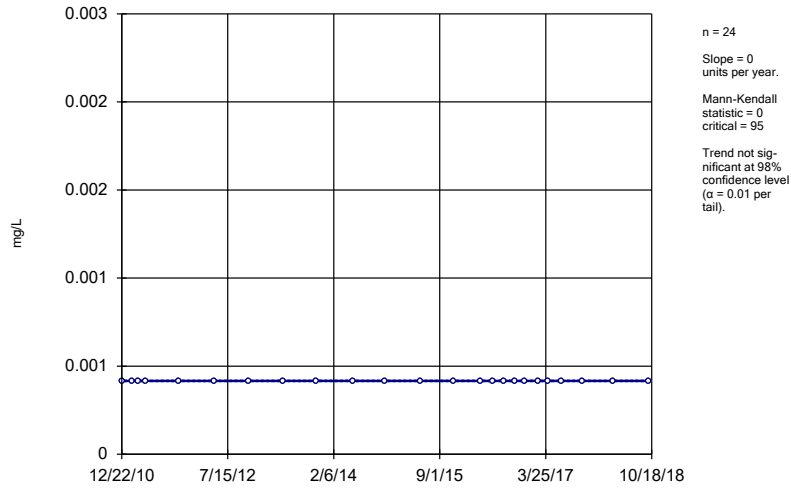
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

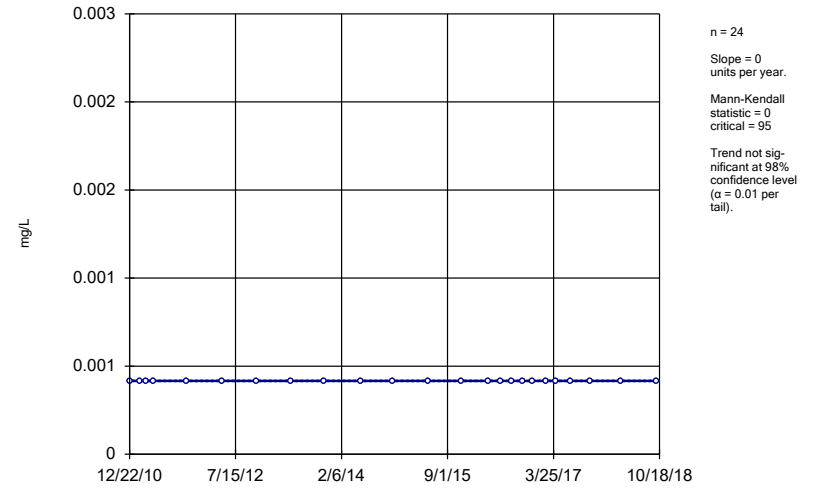
GWC-50



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

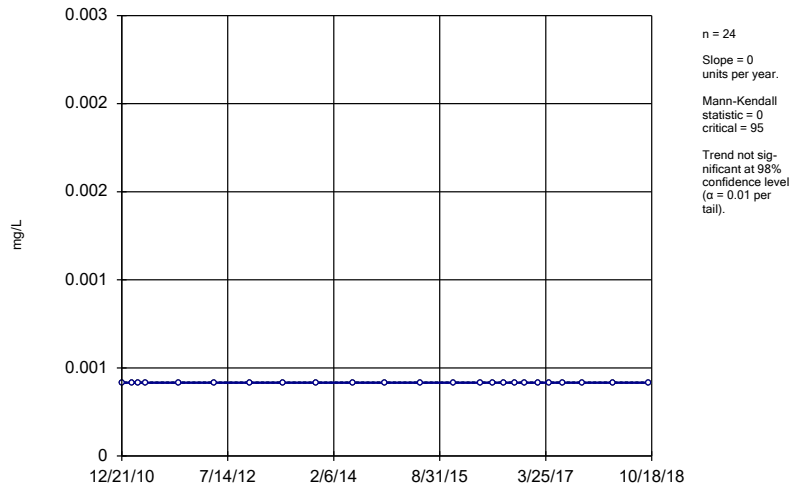
GWC-51



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

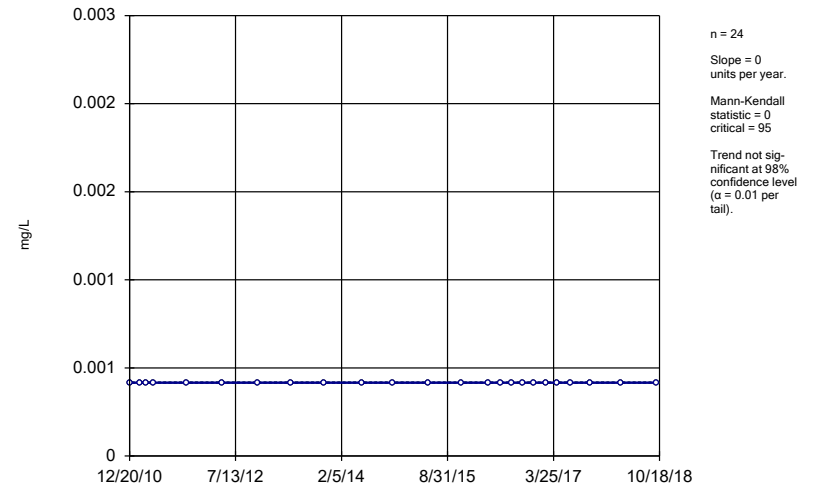
GWC-52



Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

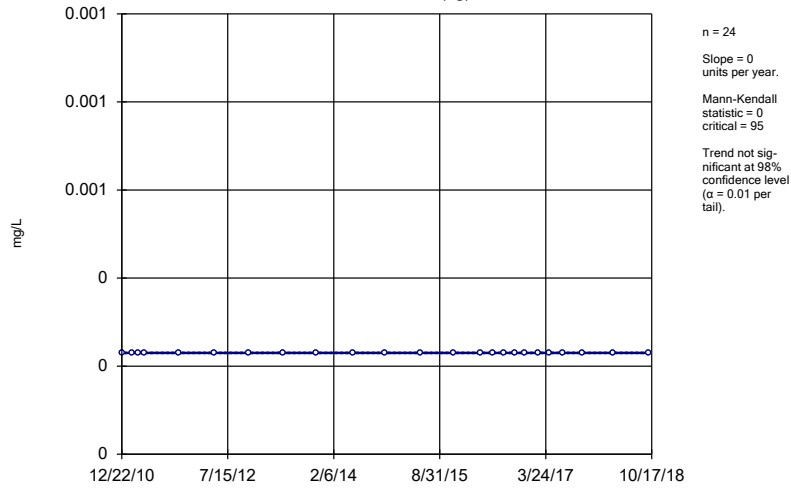
### Sen's Slope and 95% Confidence Band

GWC-53



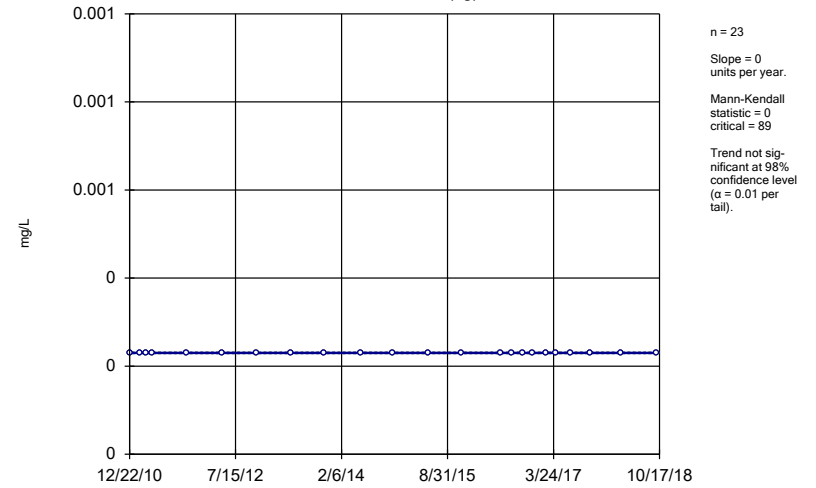
Constituent: Antimony, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



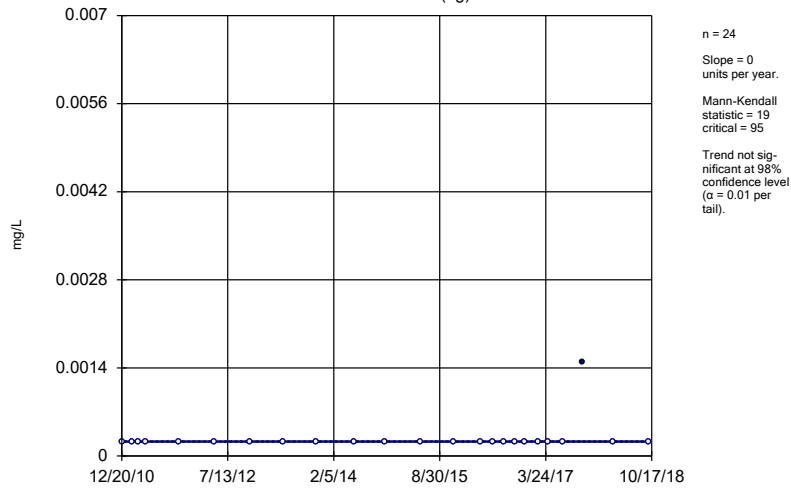
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



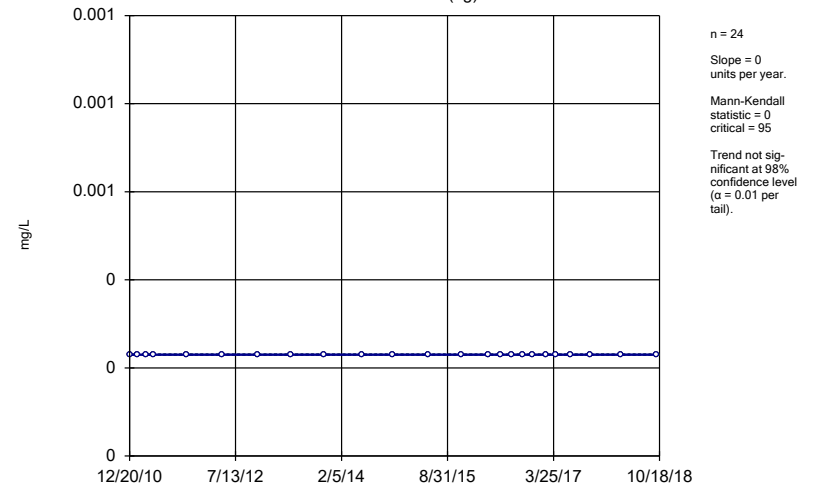
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



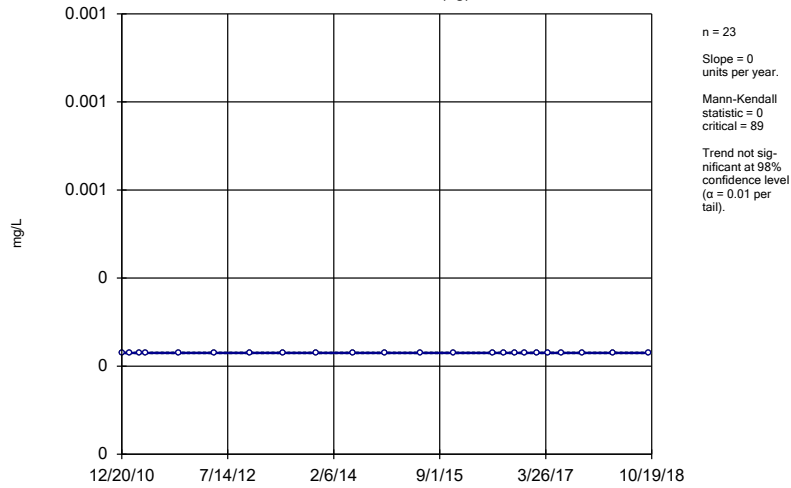
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



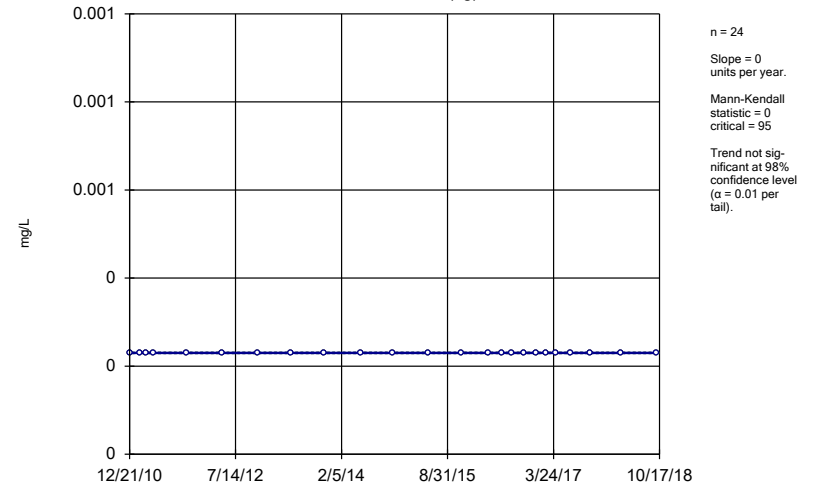
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



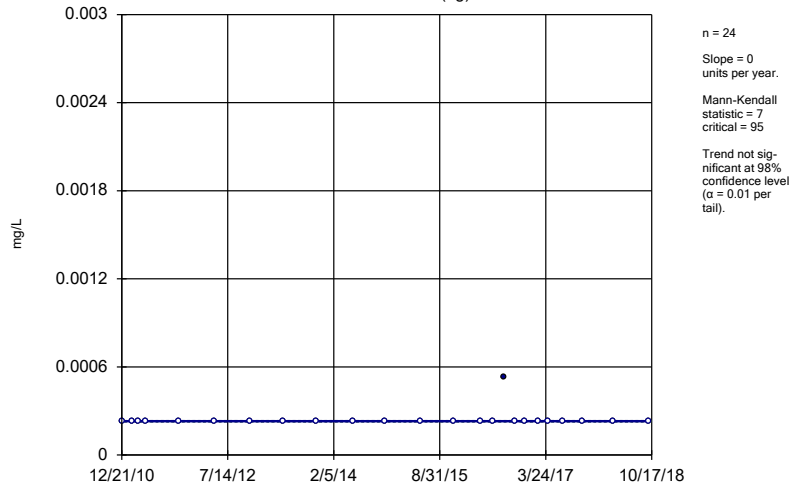
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



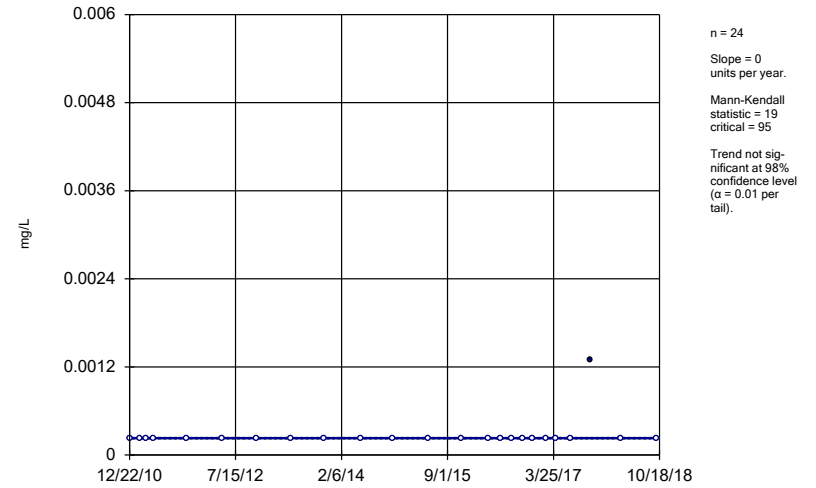
Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

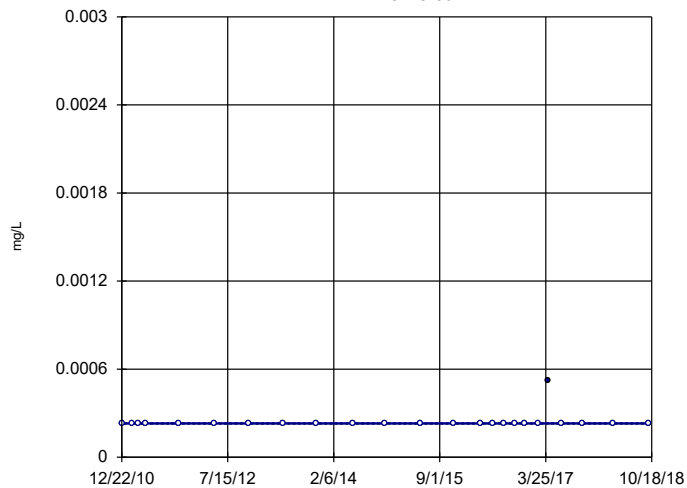
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

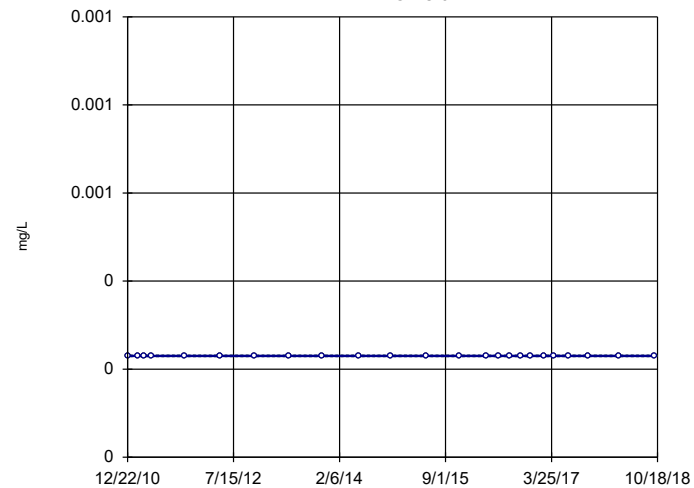


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 15  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

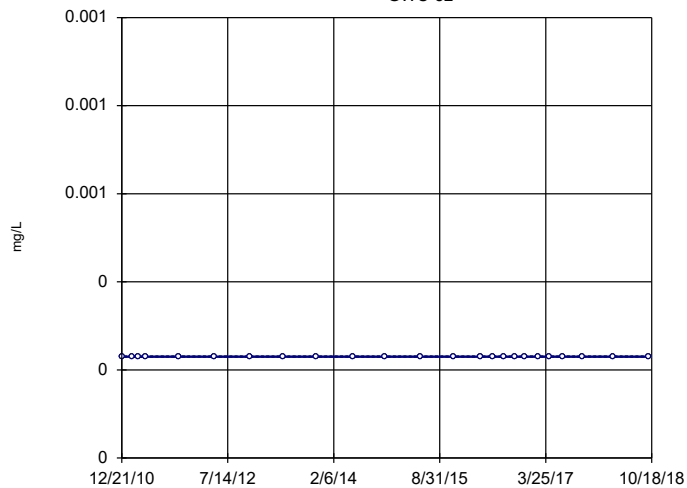


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

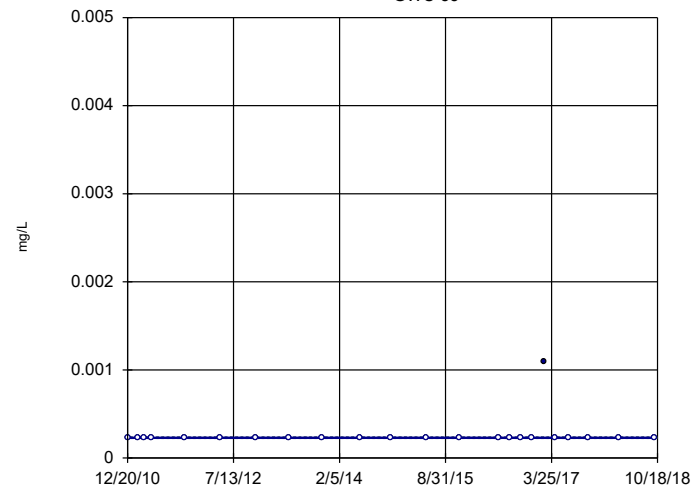


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-53

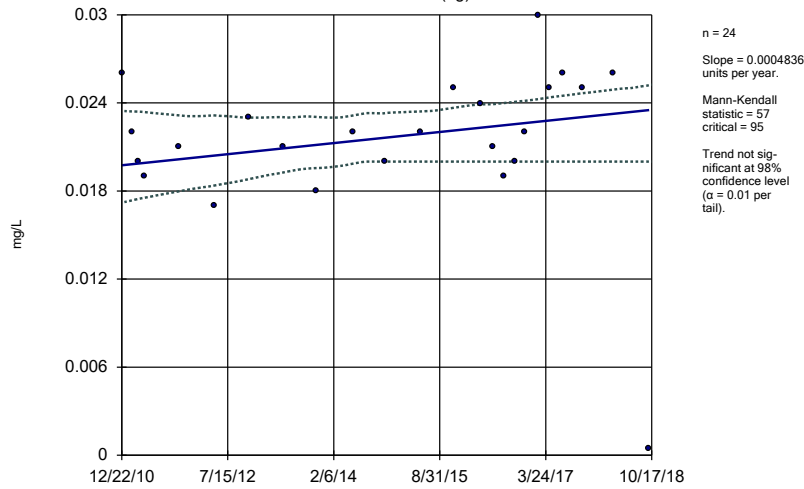


n = 23  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 12  
critical = 89  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Arsenic, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

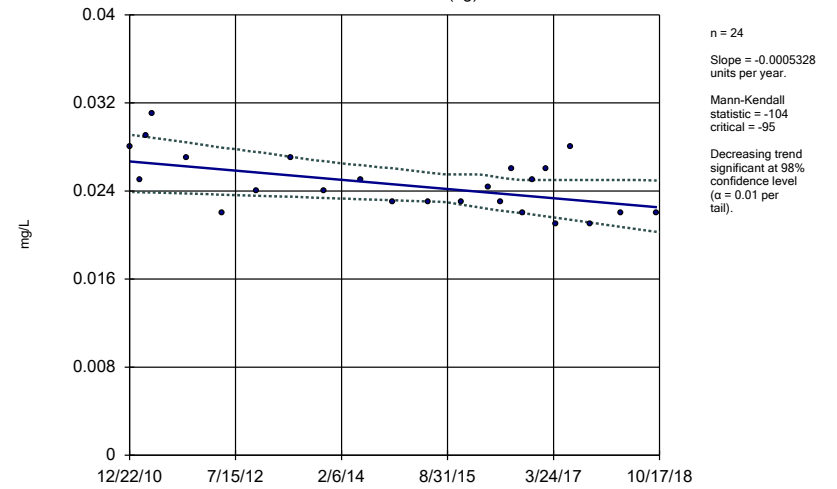
GWA-21 (bg)



Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

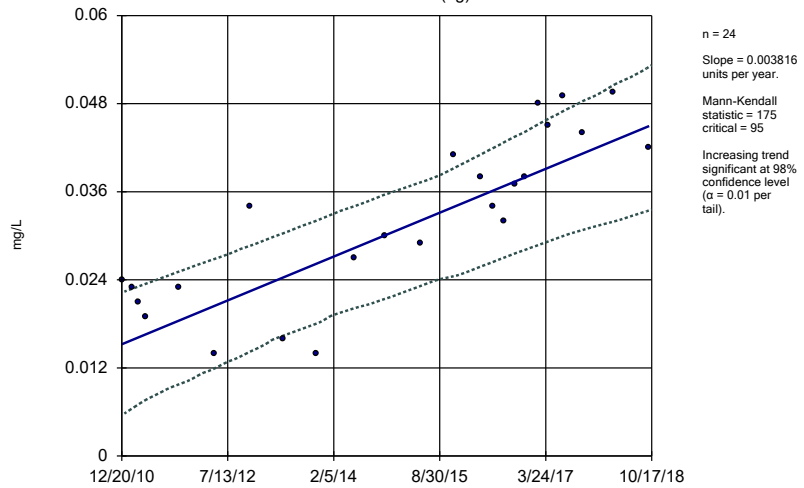
GWA-22 (bg)



Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

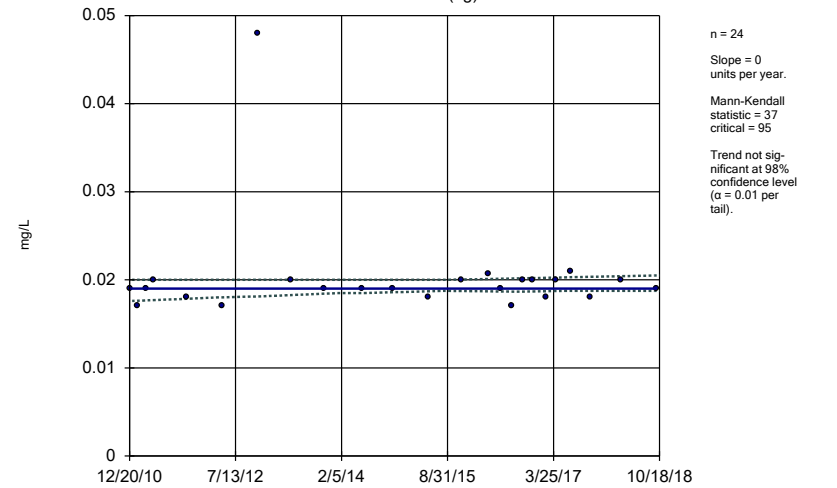
GWA-45 (bg)



Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-46 (bg)

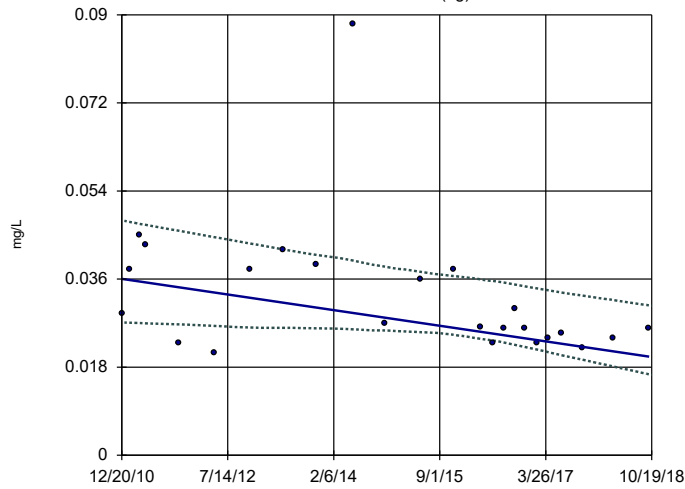


Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR



### Sen's Slope and 95% Confidence Band

GWA-47 (bg)

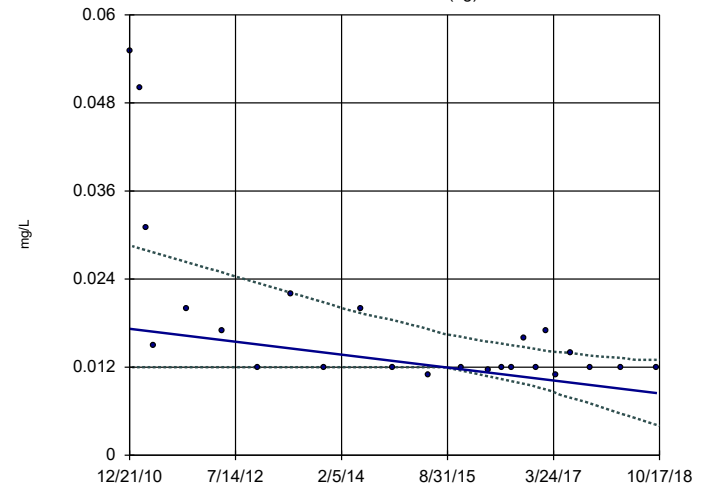


n = 24  
 Slope = -0.002036 units per year.  
 Mann-Kendall statistic = -110  
 critical = -95  
 Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-48 (bg)

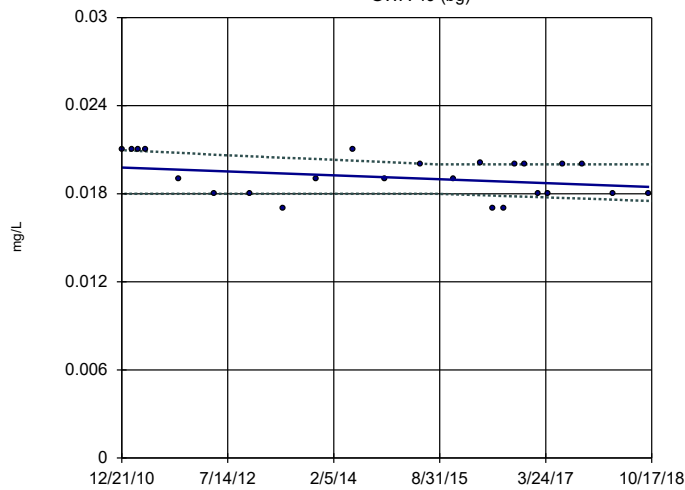


n = 24  
 Slope = -0.001125 units per year.  
 Mann-Kendall statistic = -114  
 critical = -95  
 Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:50 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-49 (bg)

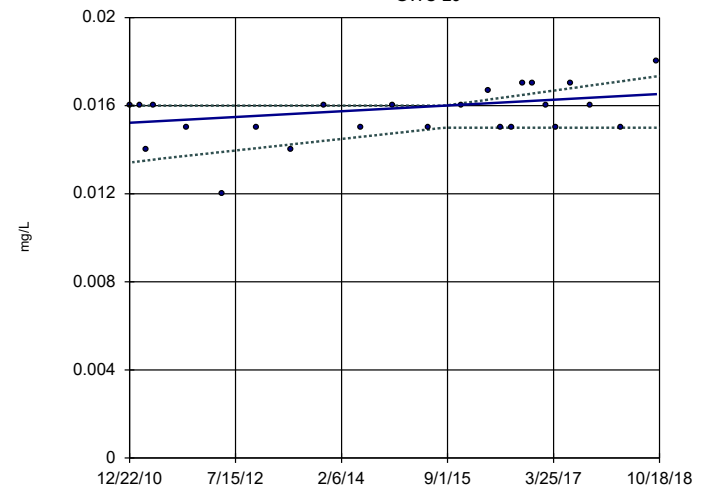


n = 24  
 Slope = -0.0001689 units per year.  
 Mann-Kendall statistic = -72  
 critical = -95  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-29

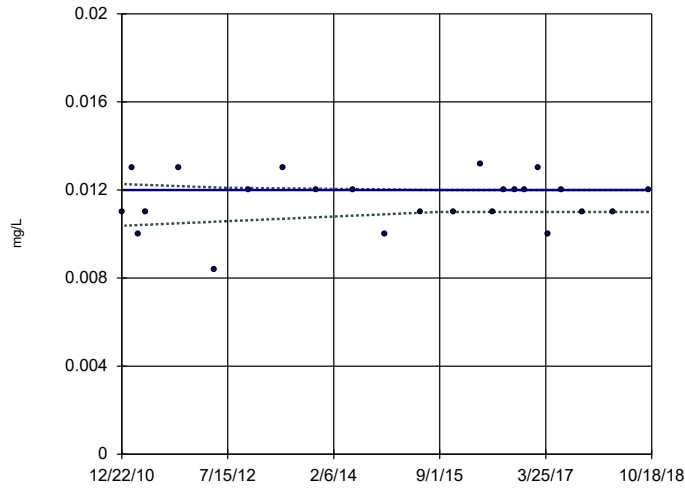


n = 24  
 Slope = 0.0001664 units per year.  
 Mann-Kendall statistic = 76  
 critical = 95  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50



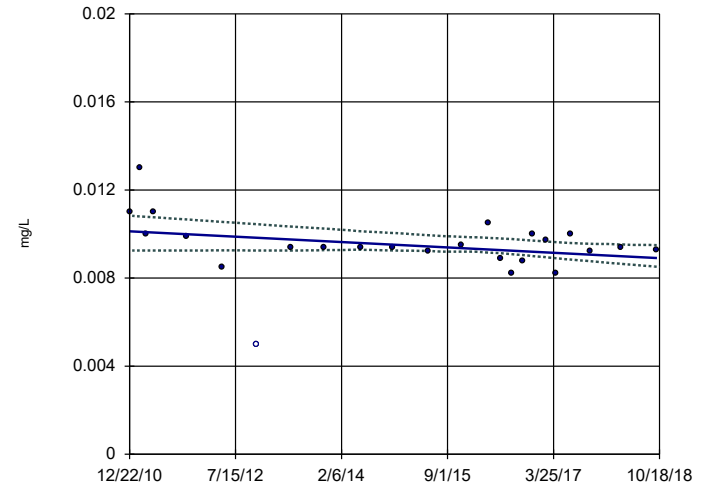
n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 6  
 critical = 95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Hollow symbols indicate censored values.

### Sen's Slope and 95% Confidence Band

GWC-51

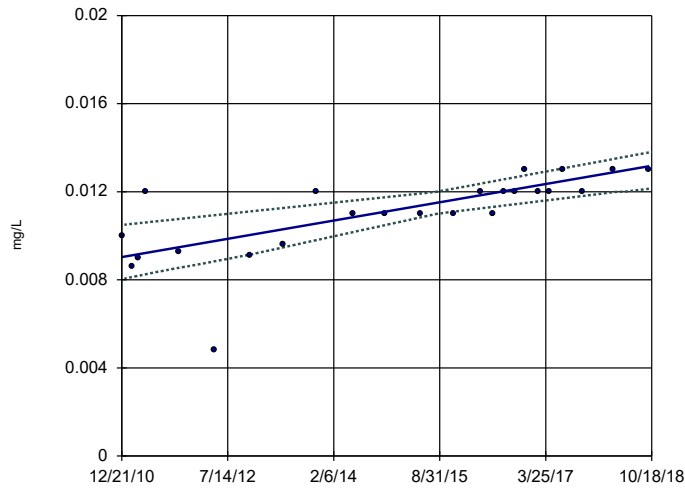


n = 24  
 Slope = -0.0001553  
 units per year.  
 Mann-Kendall  
 statistic = -70  
 critical = -95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52



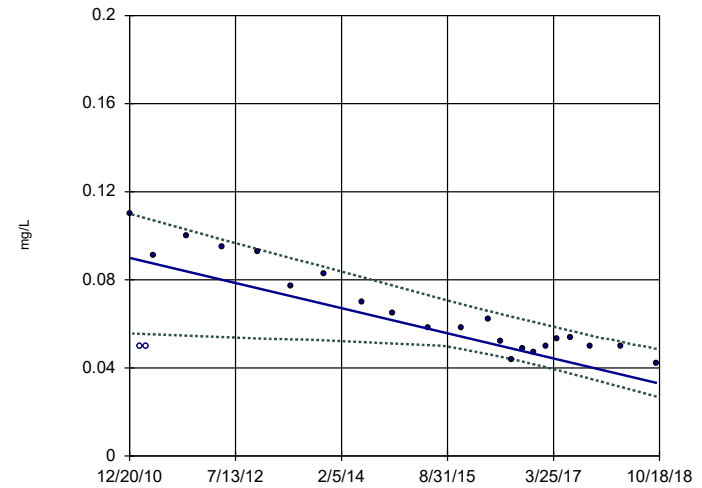
n = 24  
 Slope = 0.0005296  
 units per year.  
 Mann-Kendall  
 statistic = 174  
 critical = 95  
 Increasing trend  
 significant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Hollow symbols indicate censored values.

### Sen's Slope and 95% Confidence Band

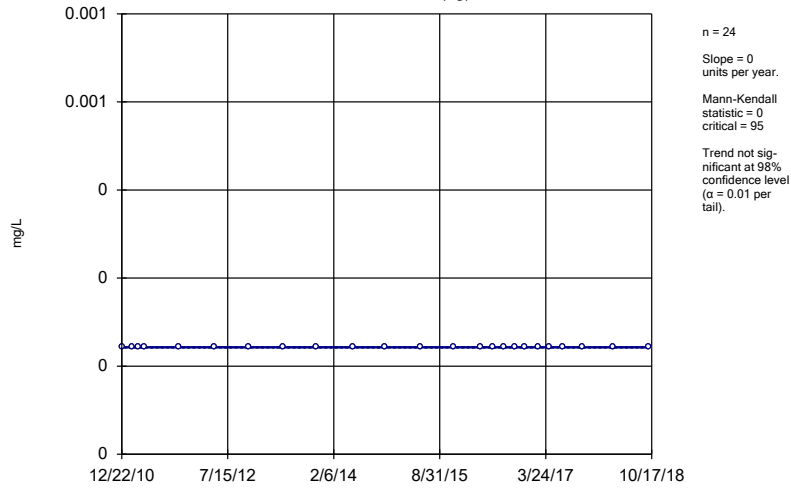
GWC-53



n = 24  
 Slope = -0.00729  
 units per year.  
 Mann-Kendall  
 statistic = -153  
 critical = -95  
 Decreasing trend  
 significant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

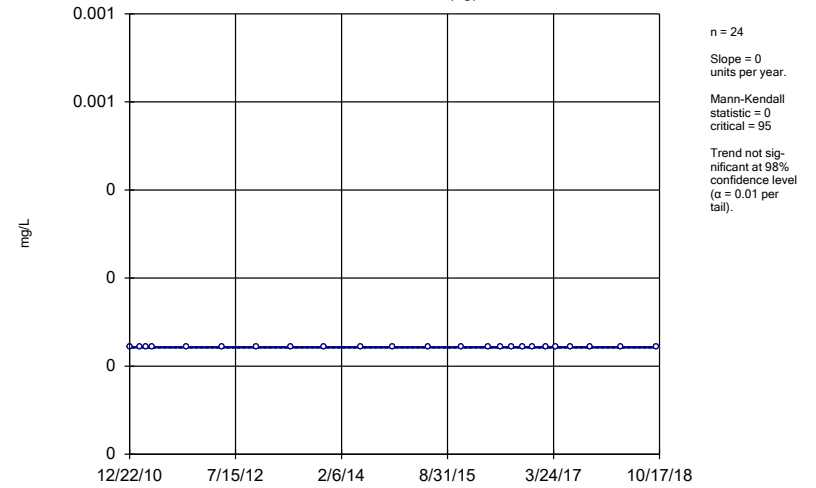
Constituent: Barium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



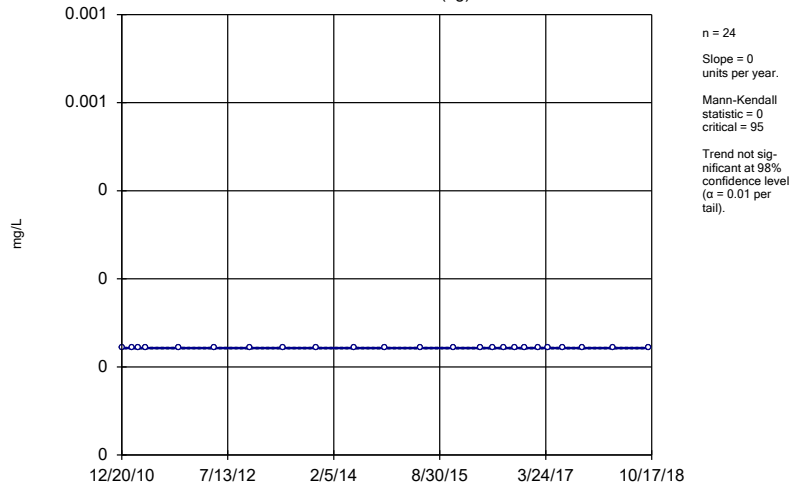
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



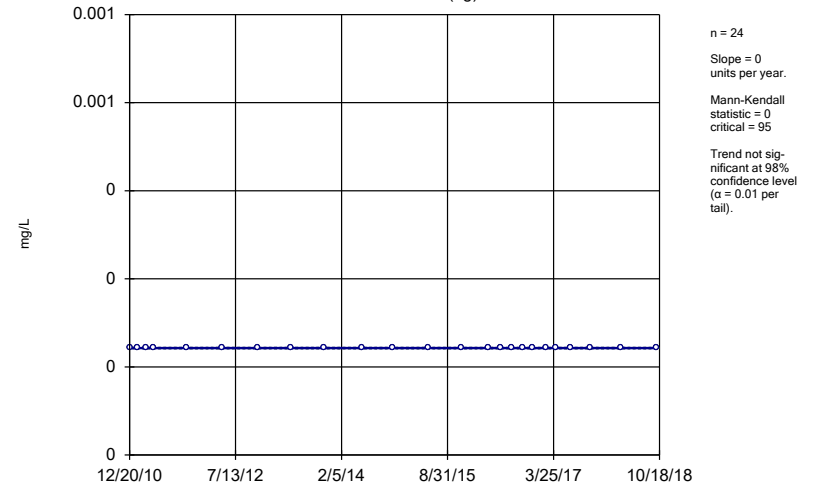
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



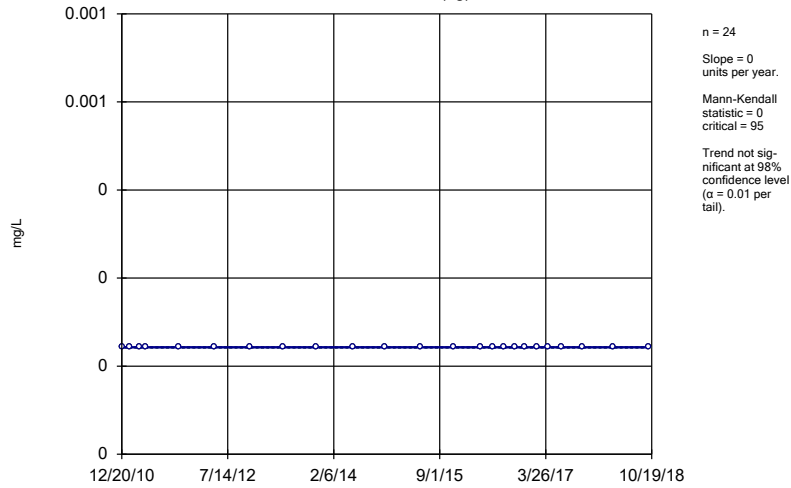
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



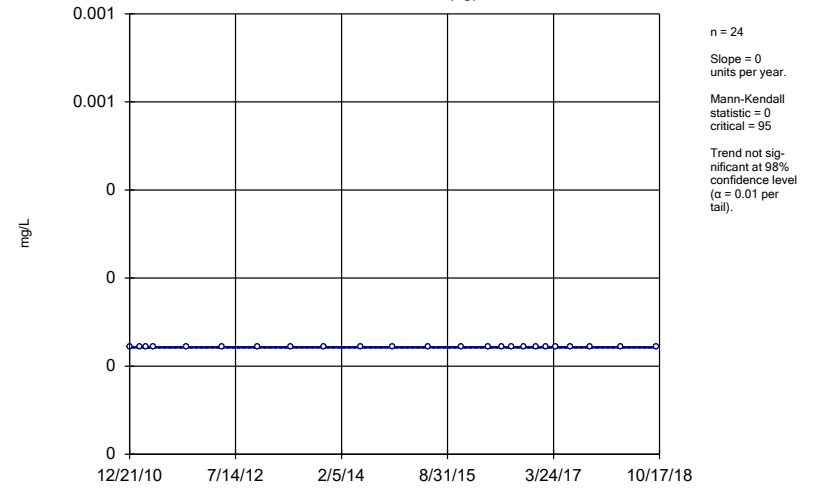
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



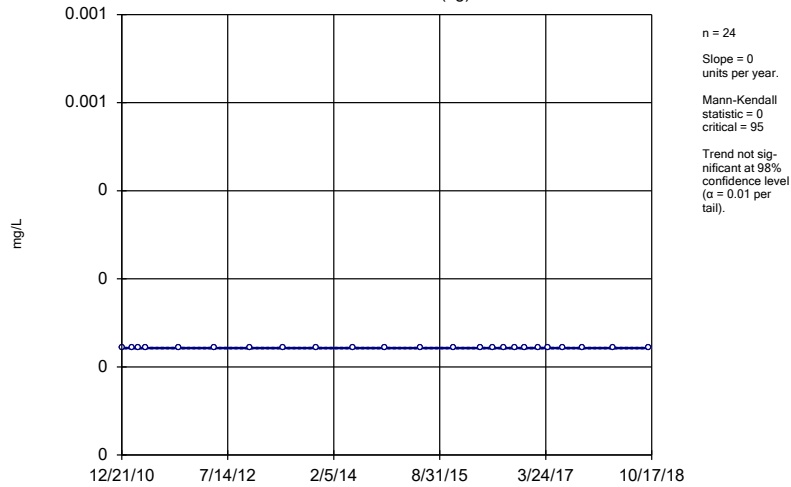
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



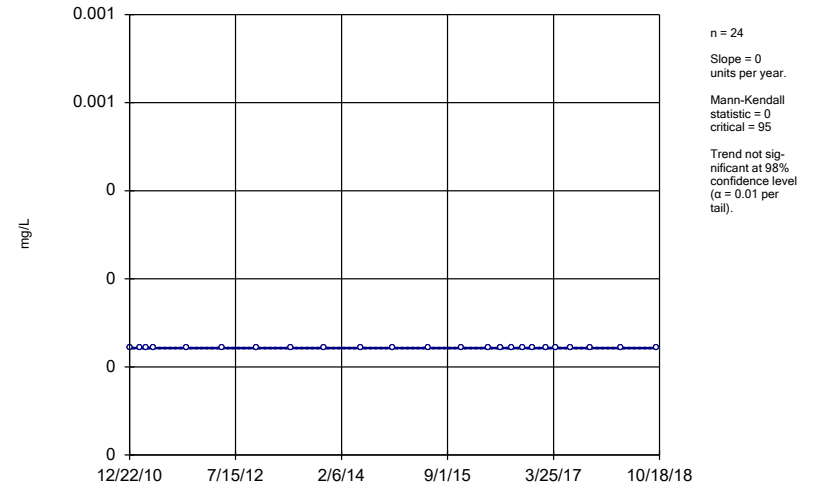
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



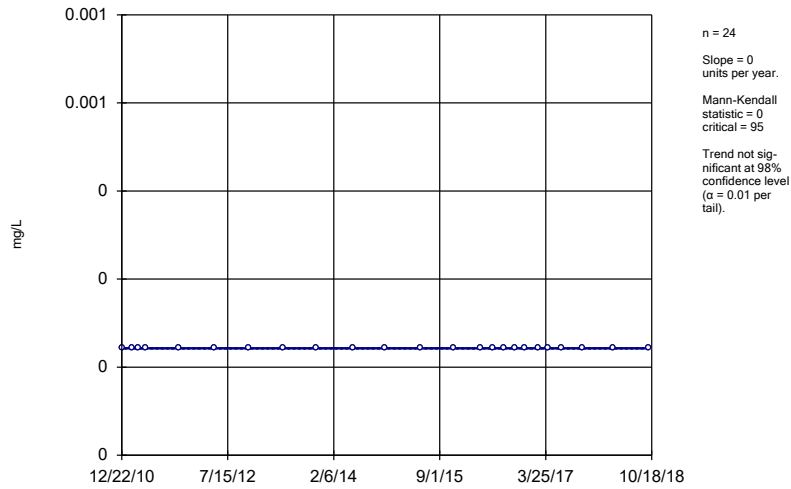
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



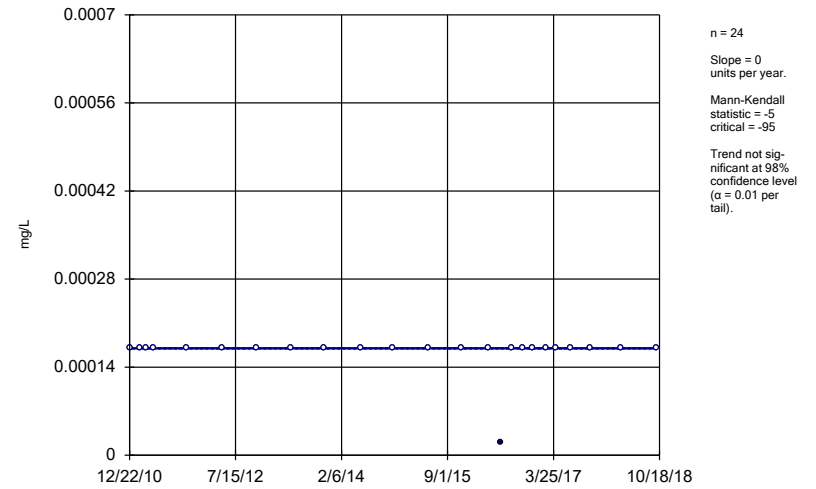
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



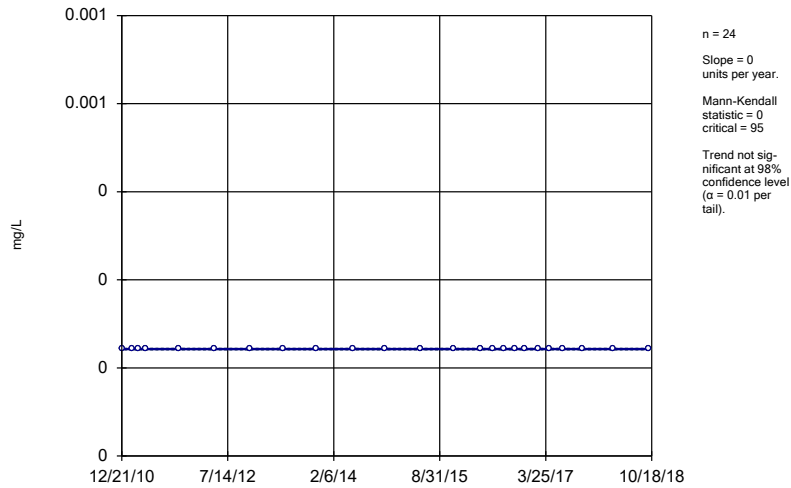
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



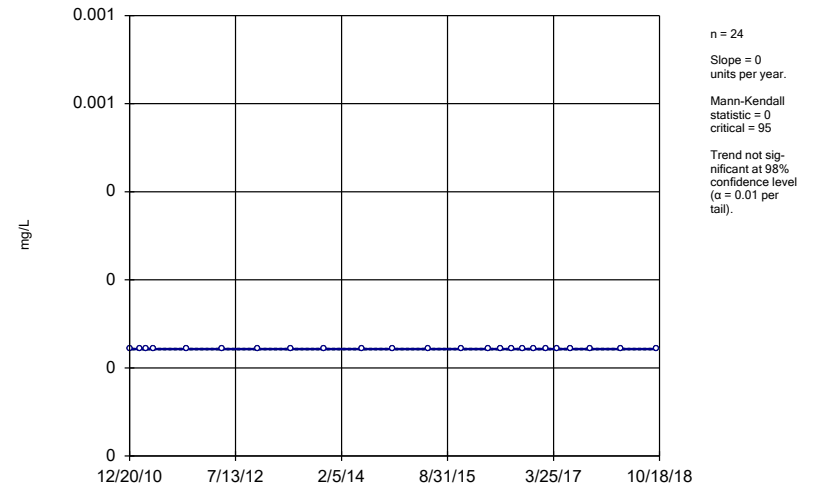
Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

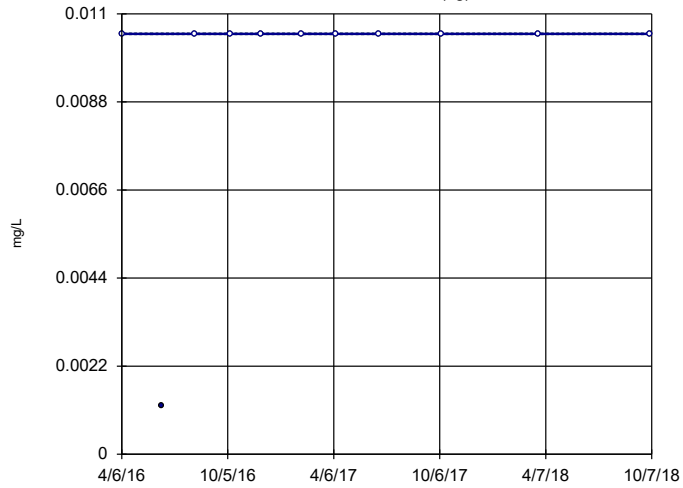
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Beryllium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-21 (bg)

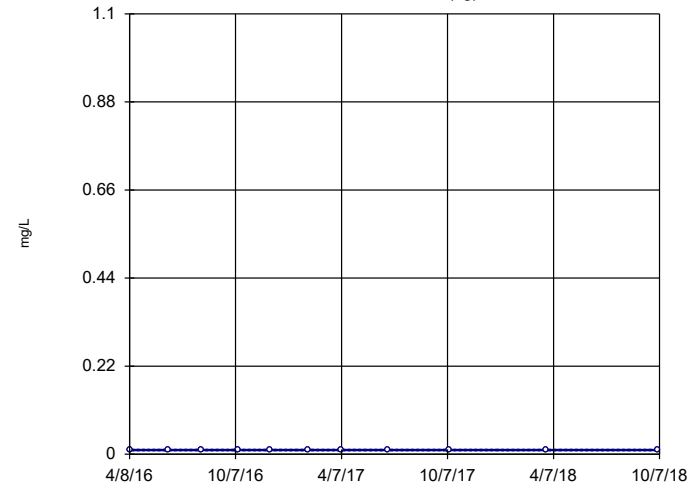


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 8  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-22 (bg)

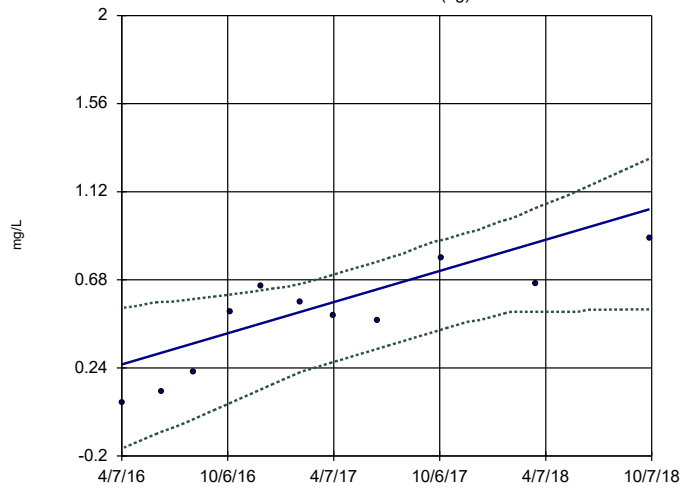


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-45 (bg)

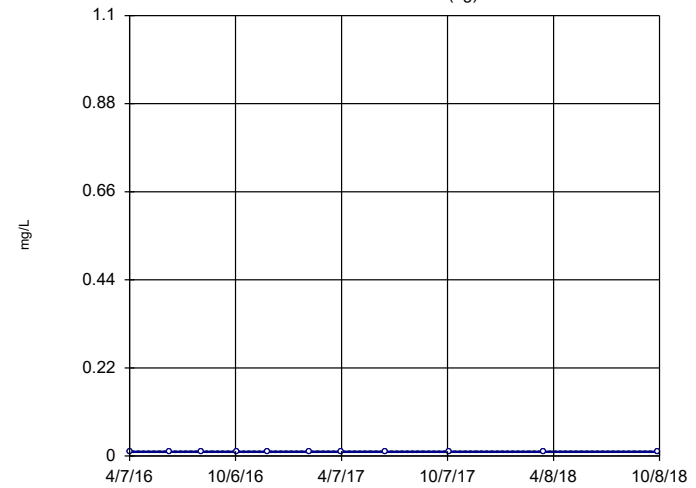


n = 11  
 Slope = 0.3115  
 units per year.  
 Mann-Kendall  
 statistic = 37  
 critical = 31  
 Increasing trend  
 significant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-46 (bg)

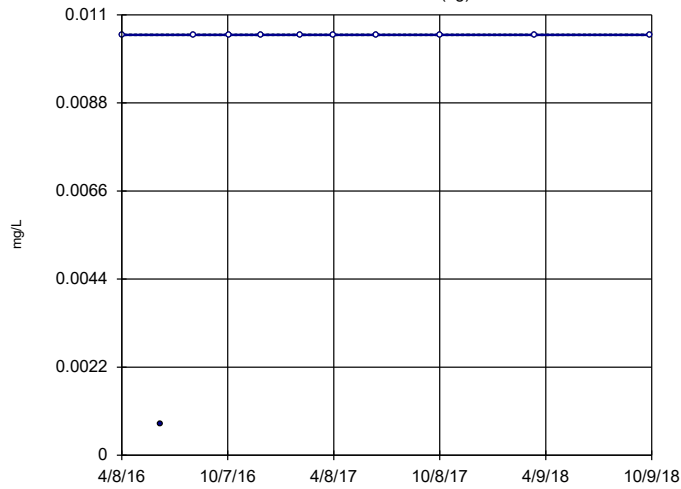


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-47 (bg)

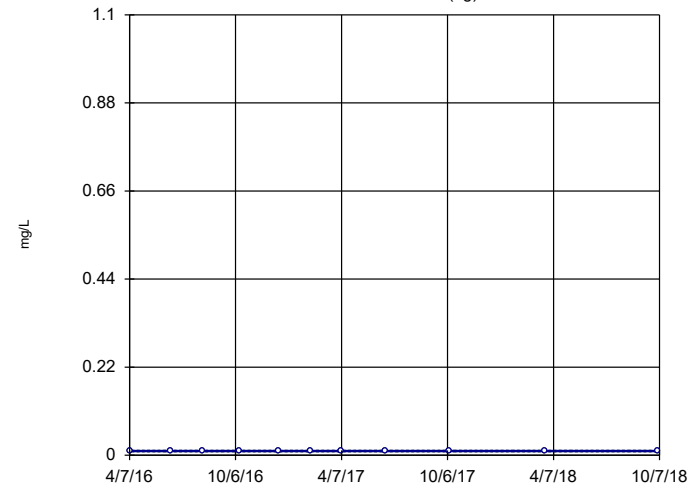


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 8  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-48 (bg)

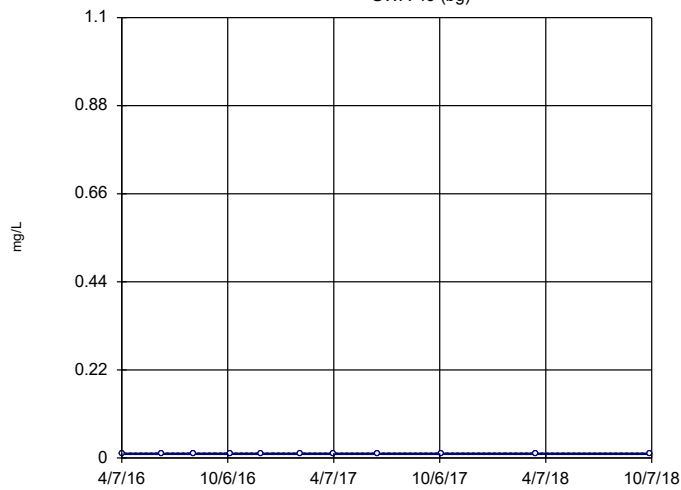


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-49 (bg)

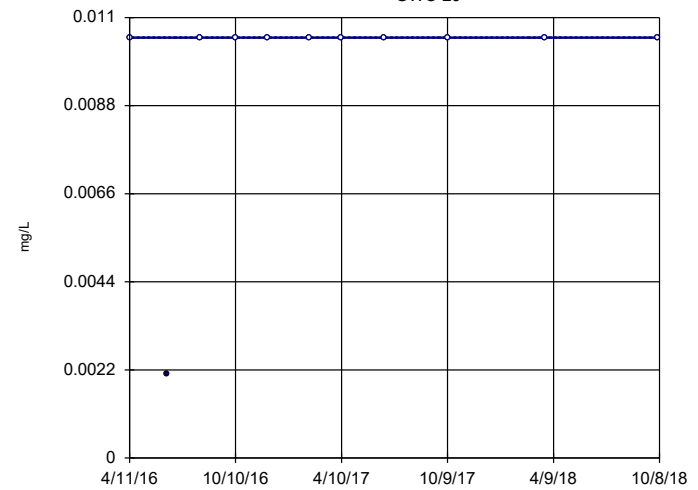


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-29

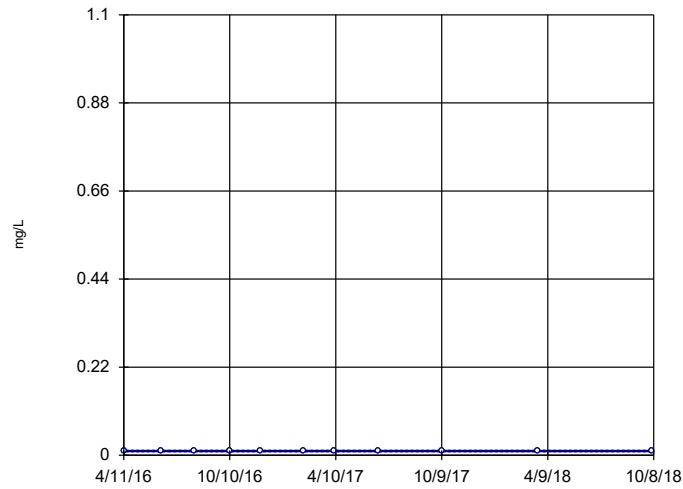


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 8  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

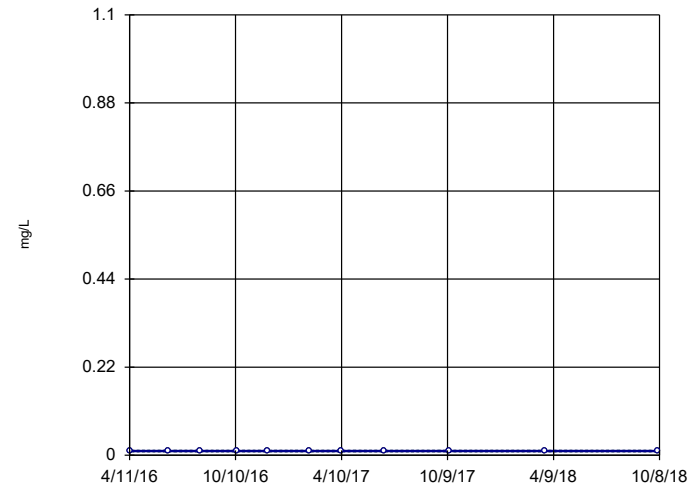


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

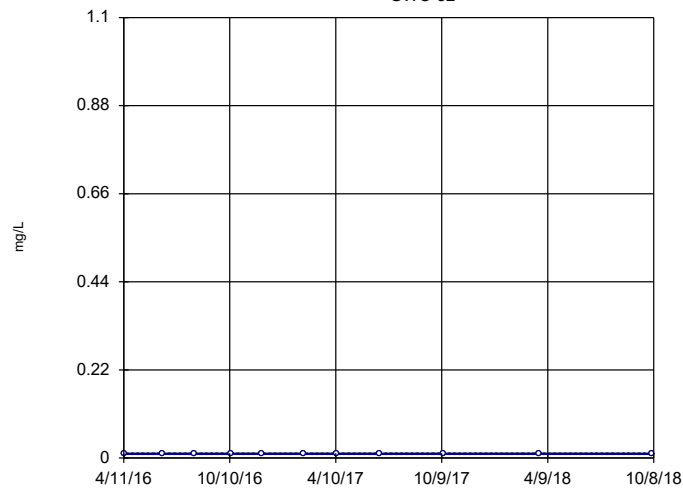


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

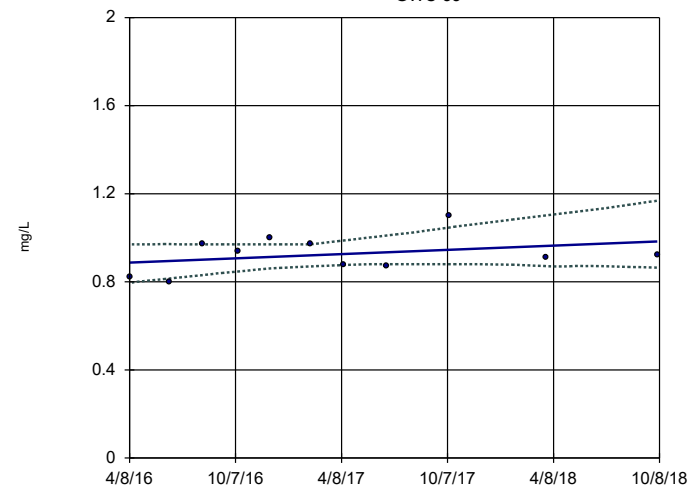


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-53

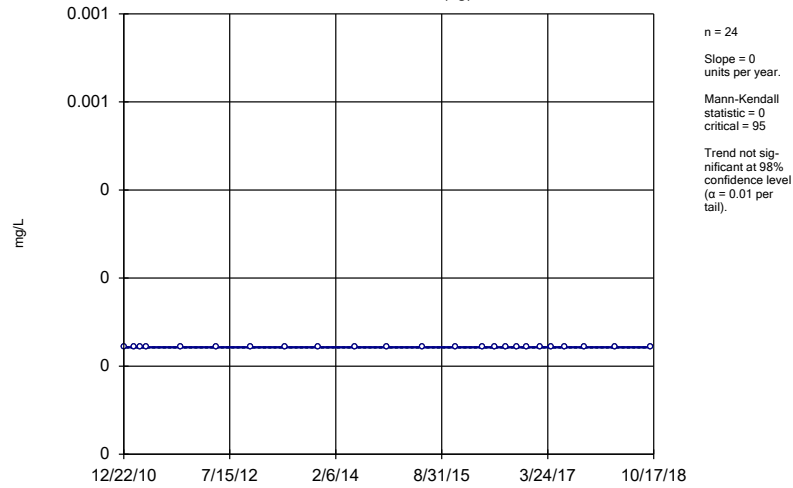


n = 11  
Slope = 0.03855  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Boron Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

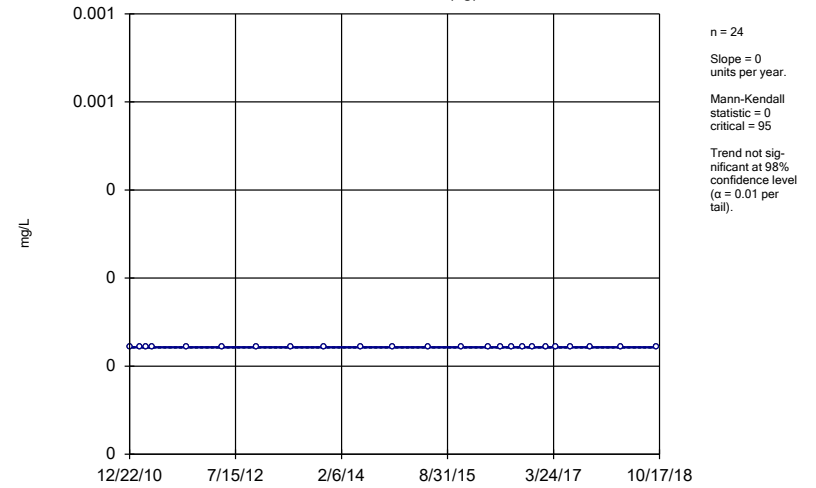


Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



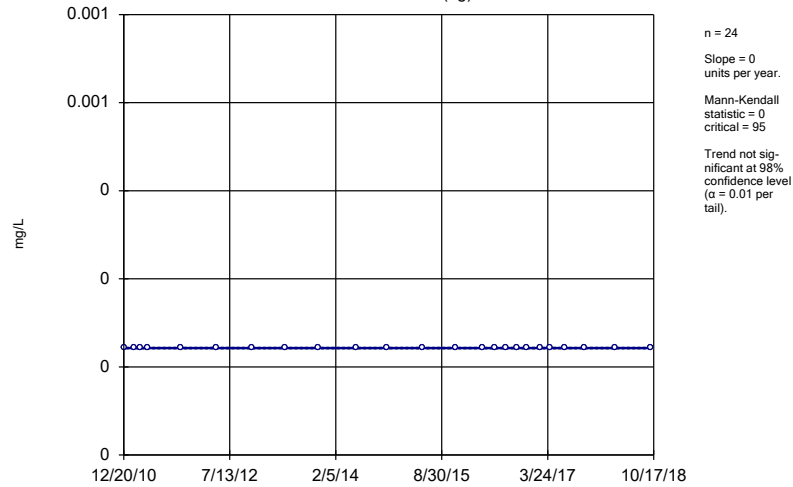
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



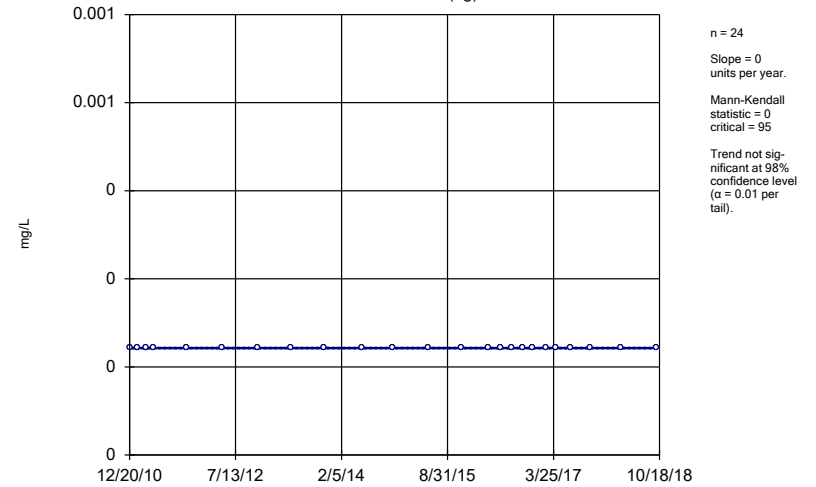
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



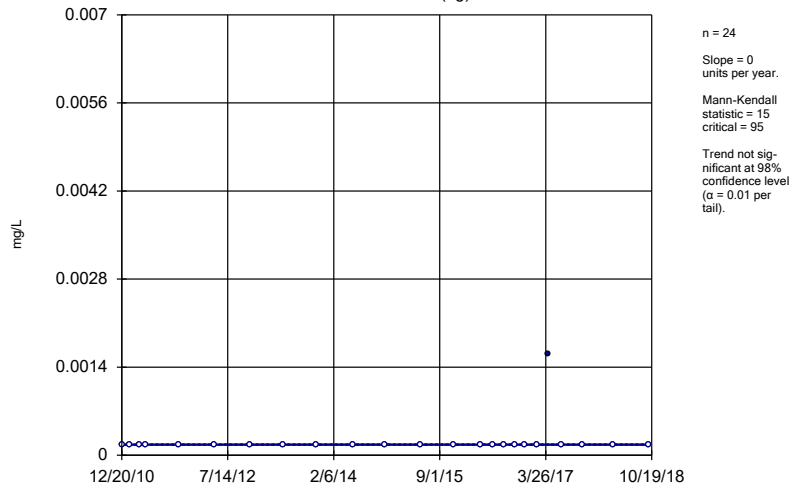
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



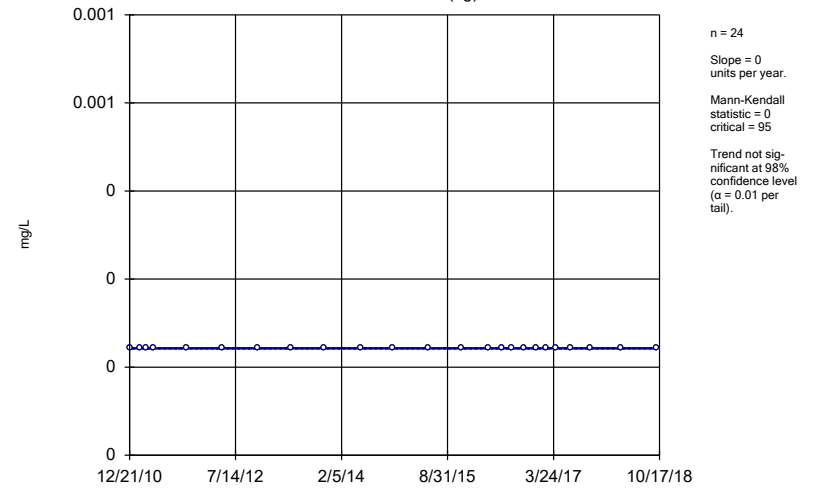
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



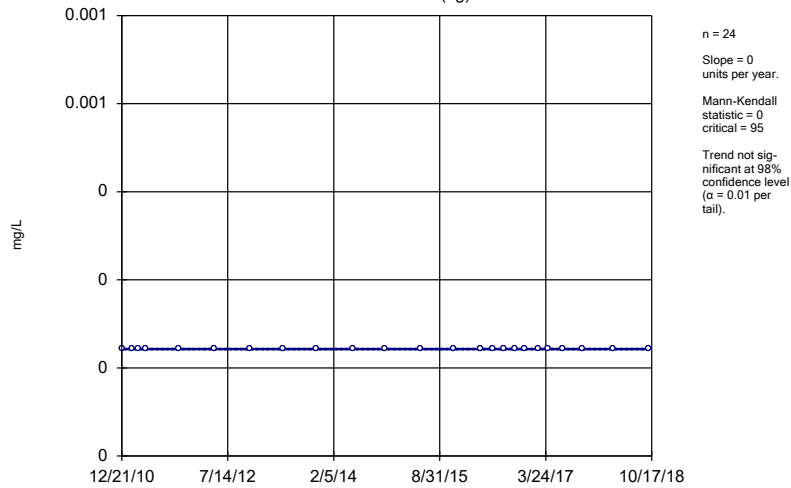
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



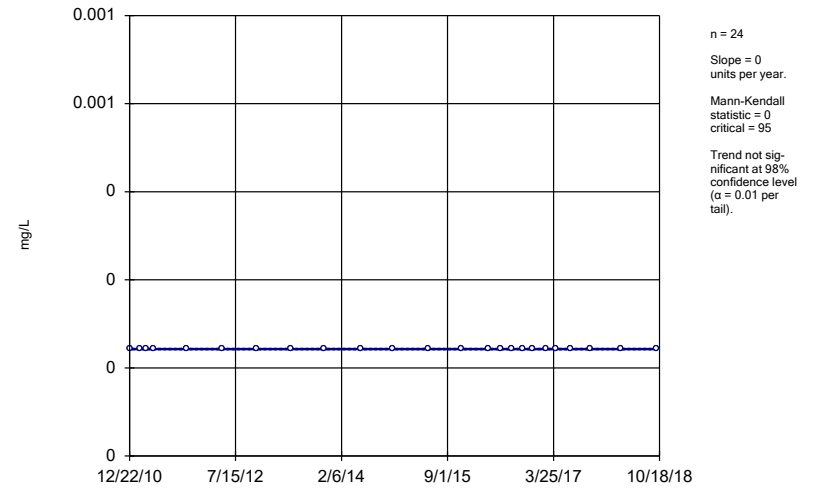
Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

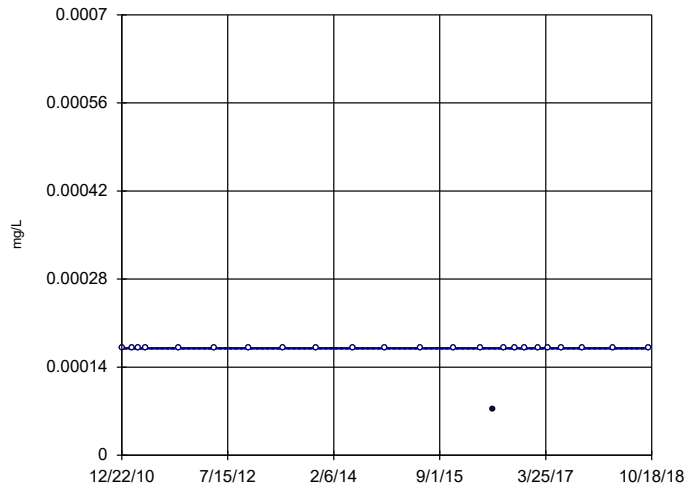
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

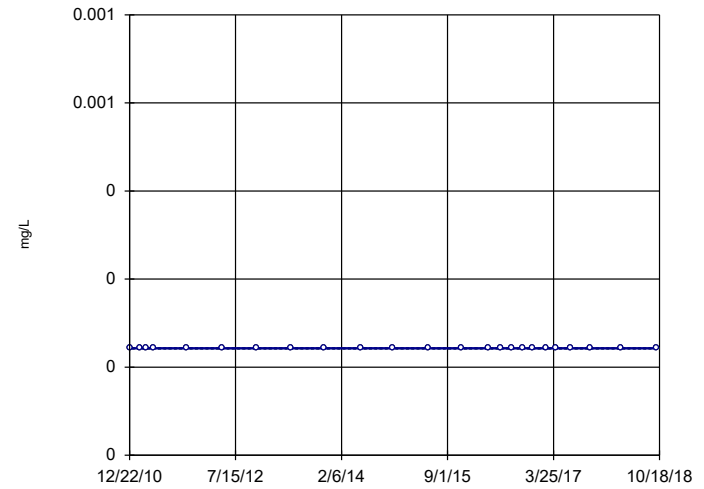


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -5  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

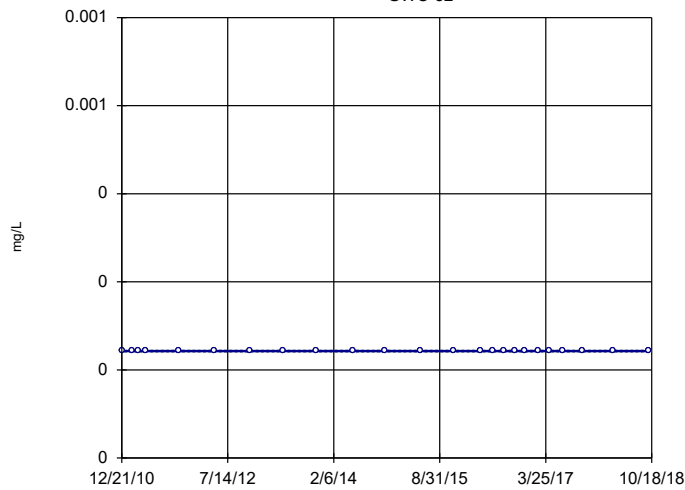


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

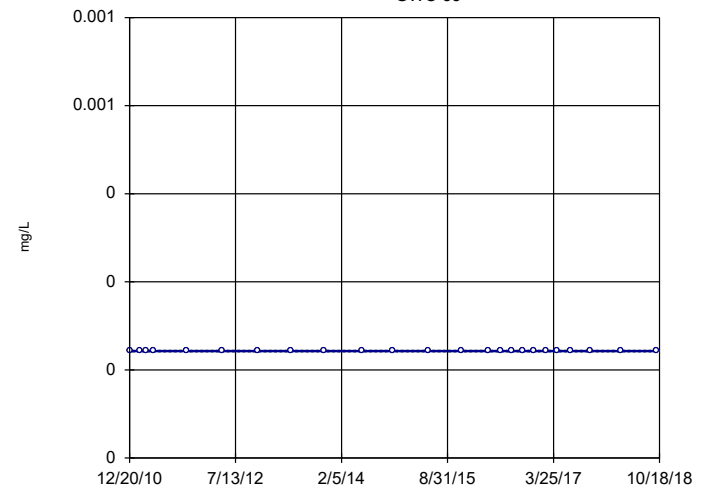


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

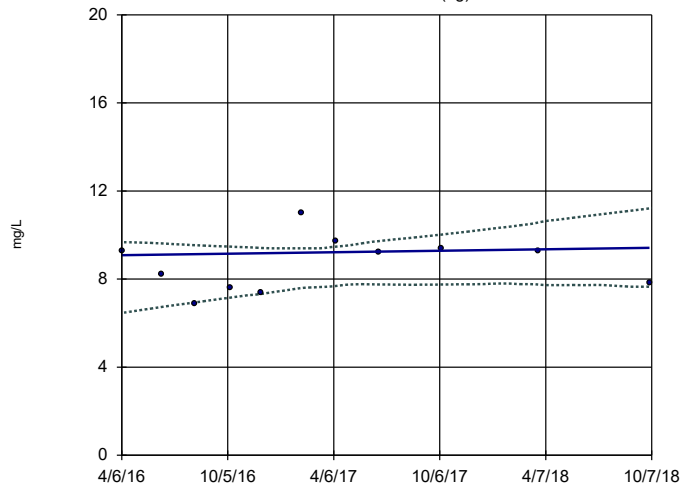
GWC-53



n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cadmium, Total Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

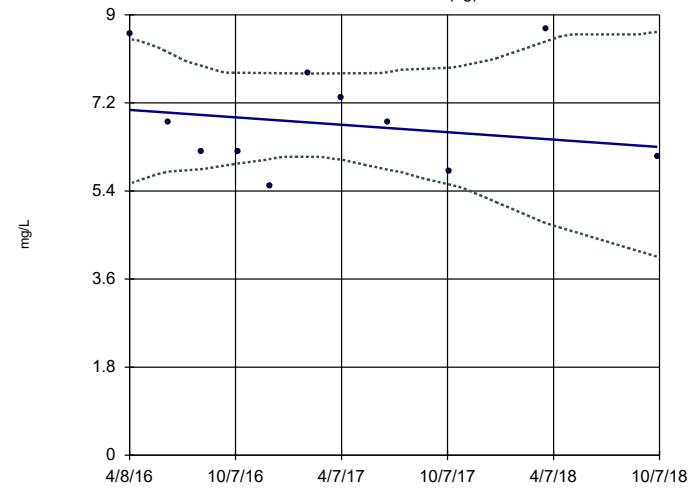
Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



n = 11  
Slope = 0.1322 units per year.  
Mann-Kendall statistic = 7  
critical = 31  
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

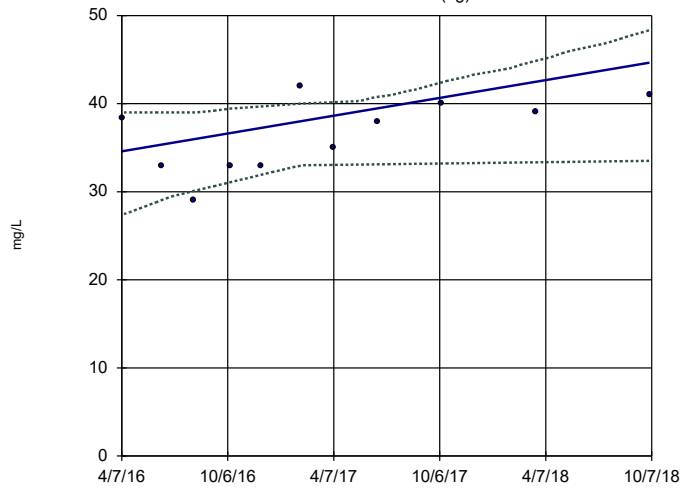
Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



n = 11  
Slope = -0.3038 units per year.  
Mann-Kendall statistic = -7  
critical = -31  
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

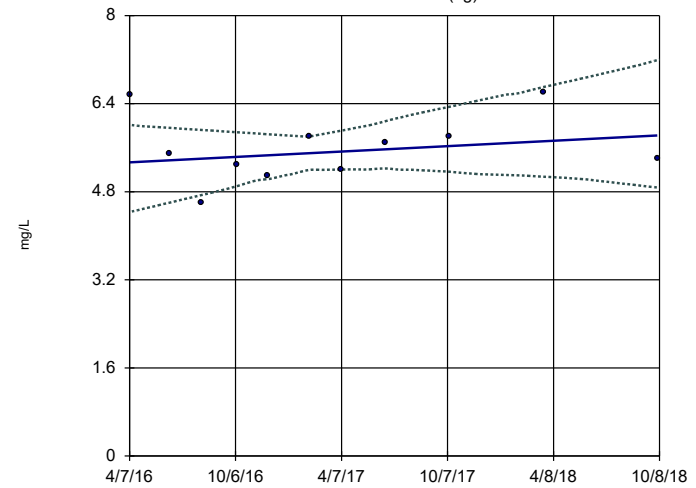
Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



n = 11  
Slope = 4.039 units per year.  
Mann-Kendall statistic = 28  
critical = 31  
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)

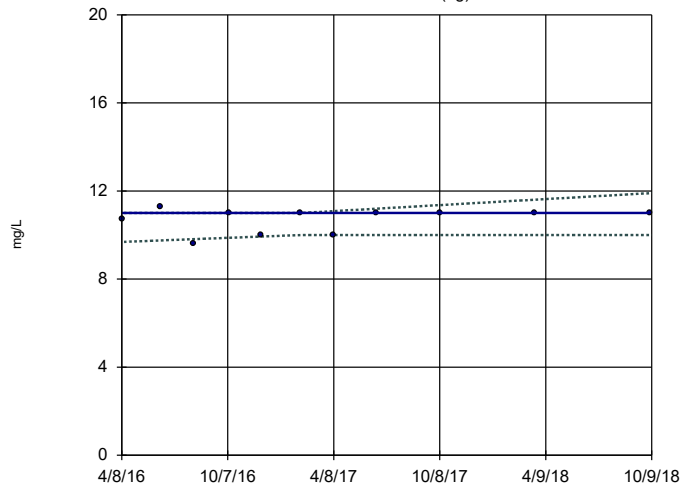


n = 11  
Slope = 0.1952 units per year.  
Mann-Kendall statistic = 10  
critical = 31  
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-47 (bg)

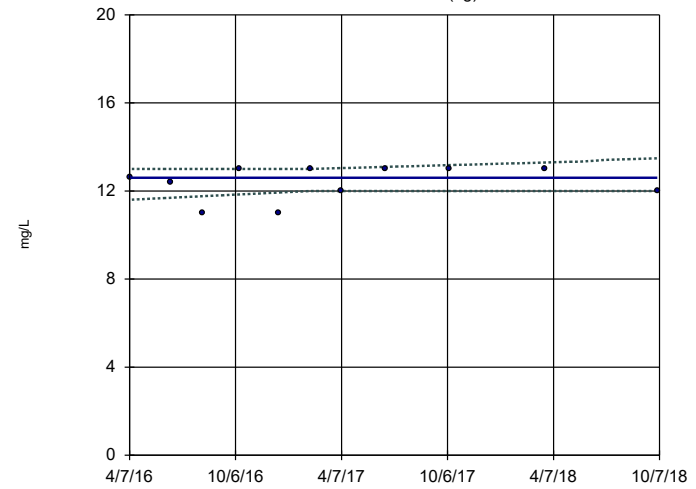


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-48 (bg)

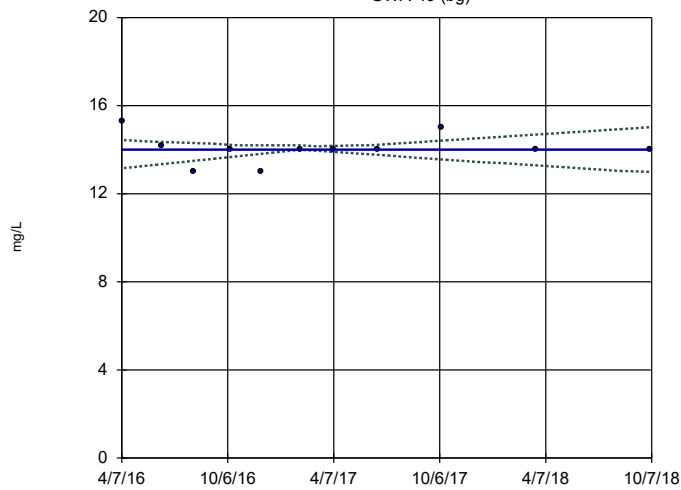


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-49 (bg)

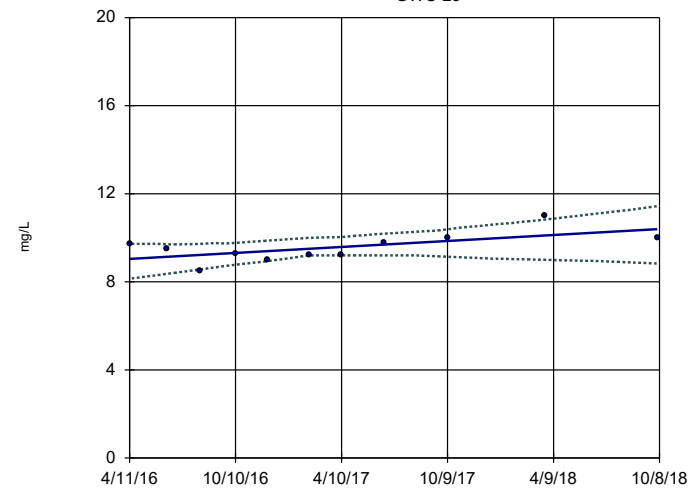


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-29

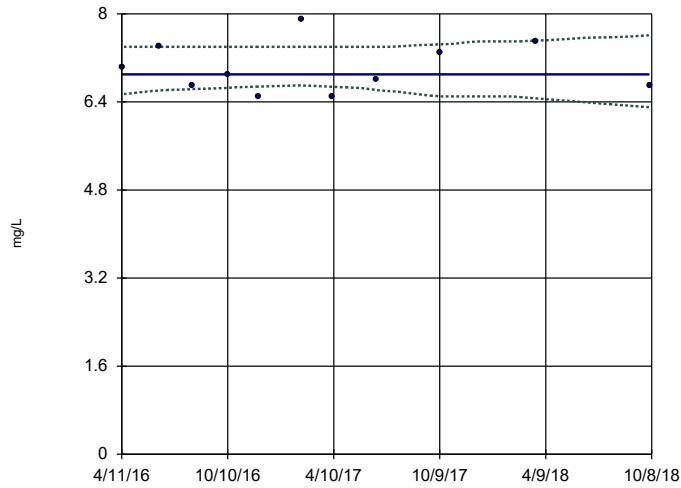


n = 11  
 Slope = 0.5464  
 units per year.  
 Mann-Kendall  
 statistic = 23  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

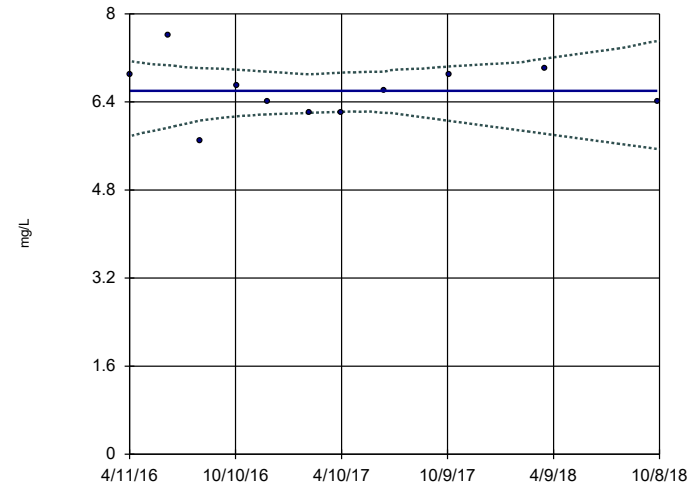


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

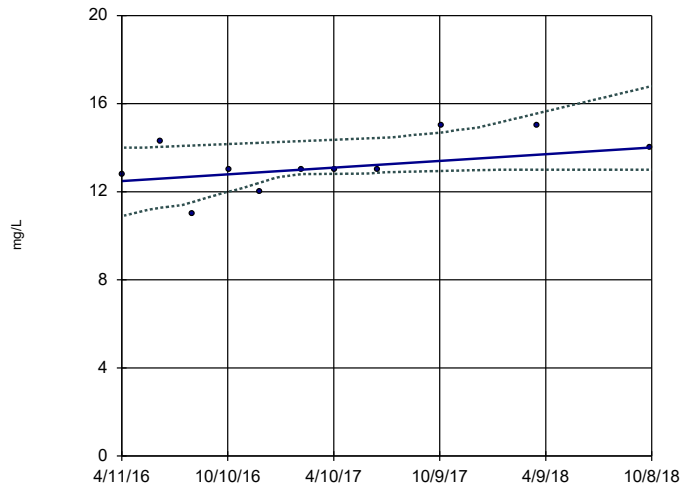


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

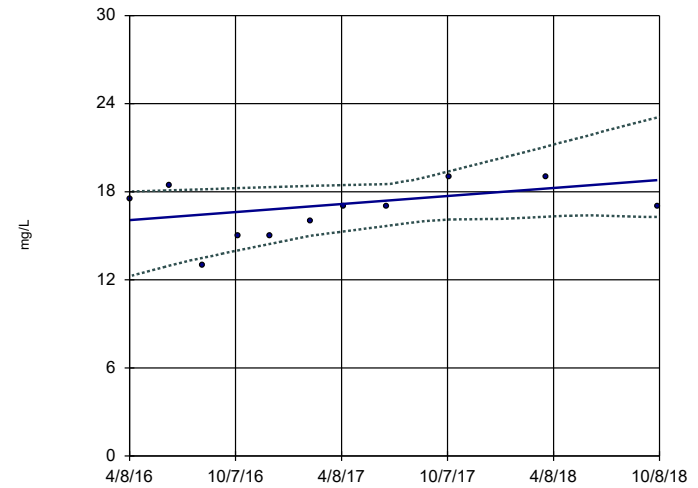


n = 11  
 Slope = 0.6104  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

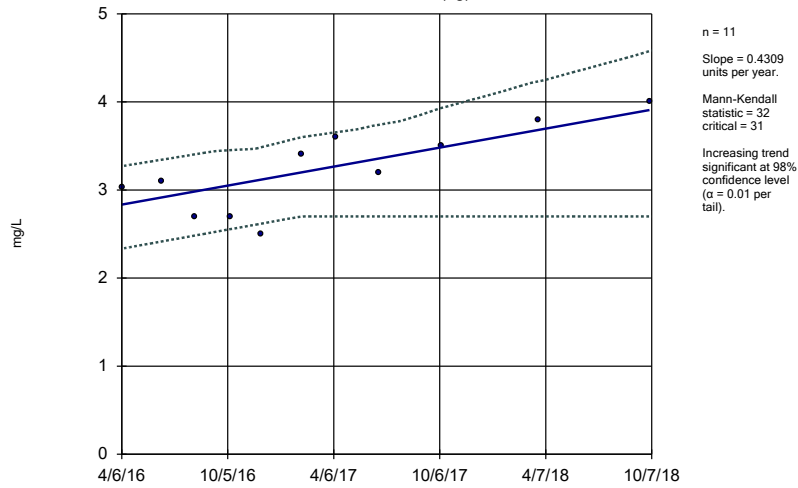
GWC-53



n = 11  
 Slope = 1.094  
 units per year.  
 Mann-Kendall  
 statistic = 18  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

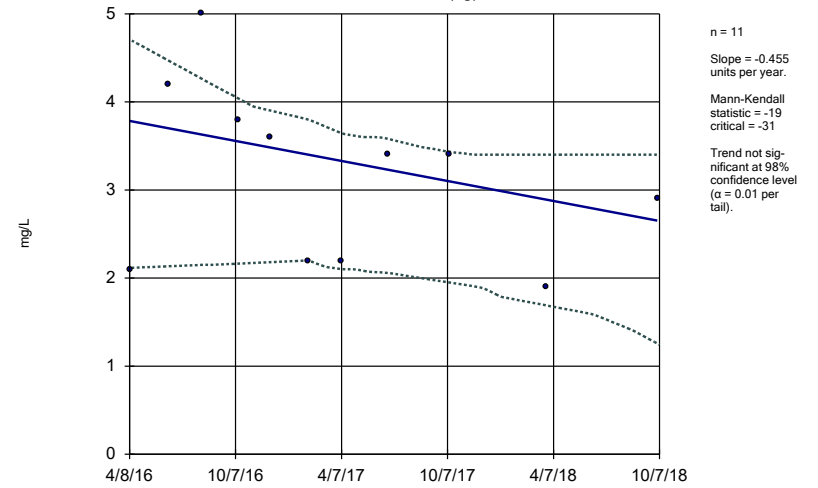
Constituent: Calcium Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



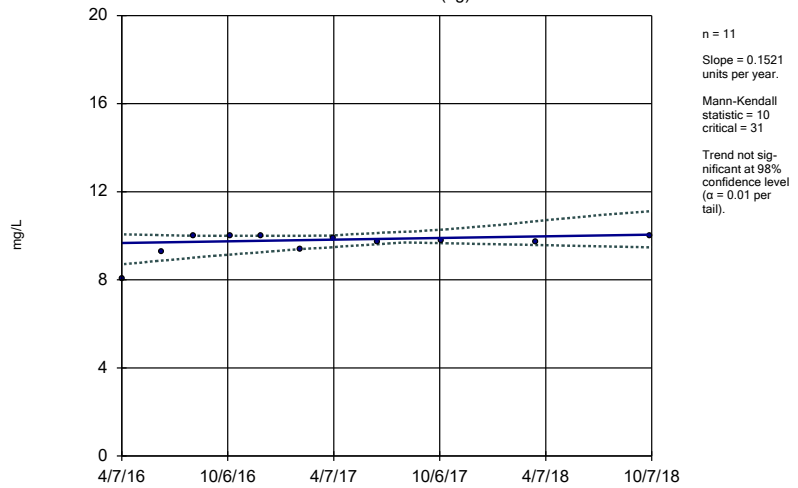
Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



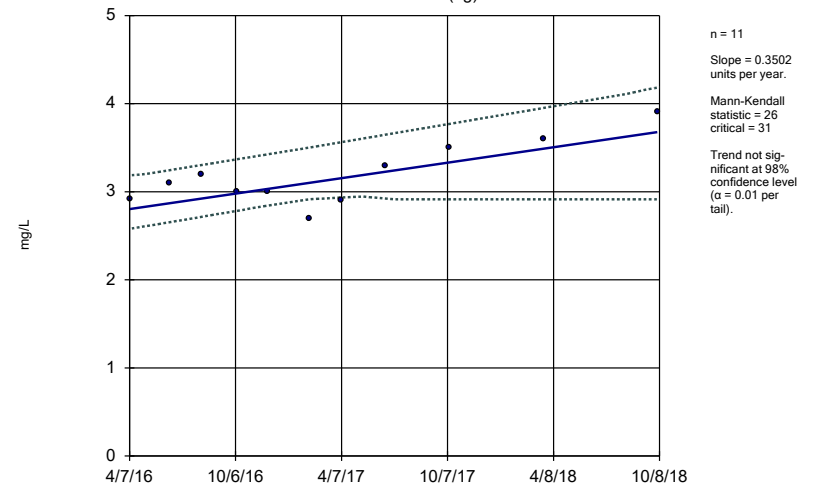
Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



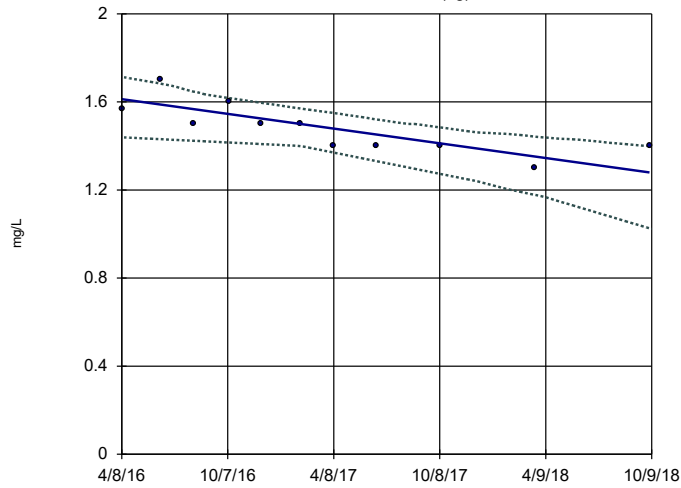
Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

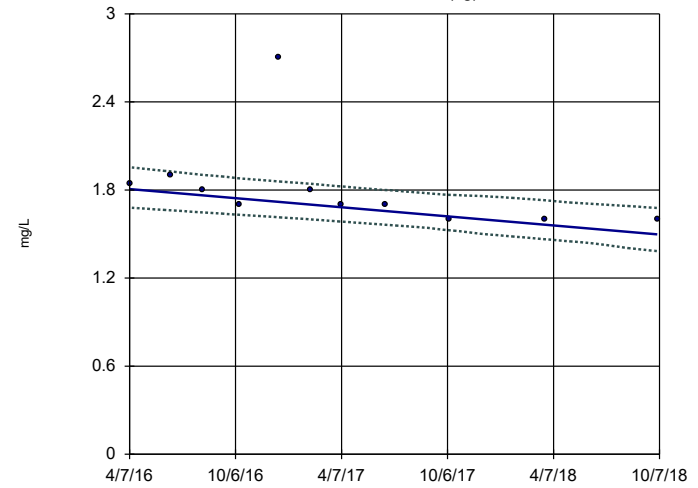
Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



n = 11  
Slope = -0.1337  
units per year.  
Mann-Kendall  
statistic = -38  
critical = -31  
Decreasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

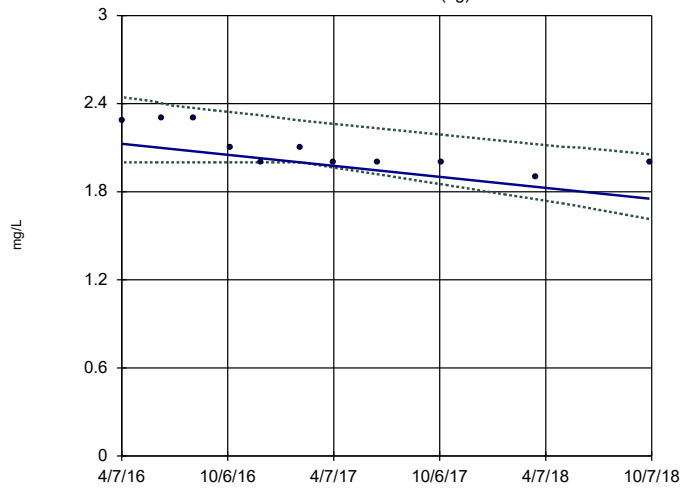
Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



n = 11  
Slope = -0.1237  
units per year.  
Mann-Kendall  
statistic = -36  
critical = -31  
Decreasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chloride Analysis Run 4/26/2019 2:51 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

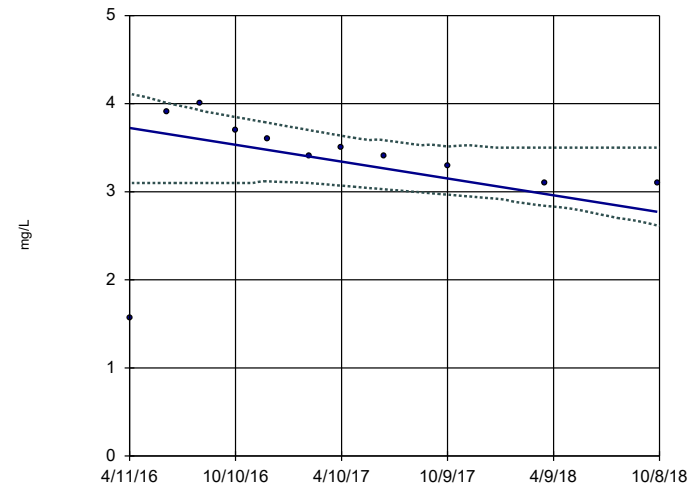
Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



n = 11  
Slope = -0.1502  
units per year.  
Mann-Kendall  
statistic = -35  
critical = -31  
Decreasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



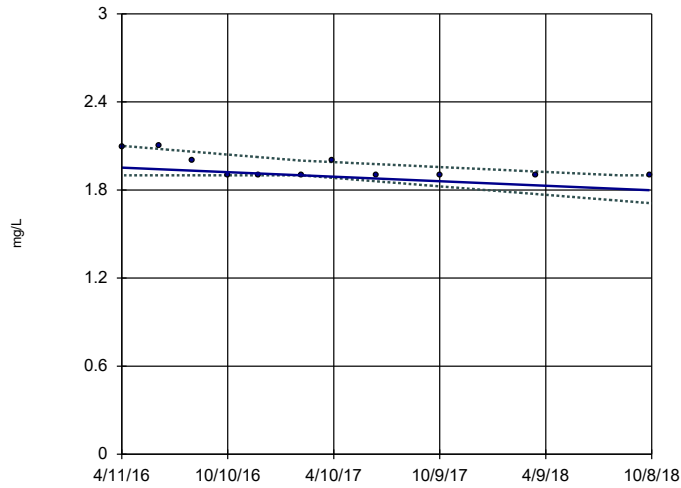
n = 11  
Slope = -0.3834  
units per year.  
Mann-Kendall  
statistic = -29  
critical = -31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR



### Sen's Slope and 95% Confidence Band

GWC-50

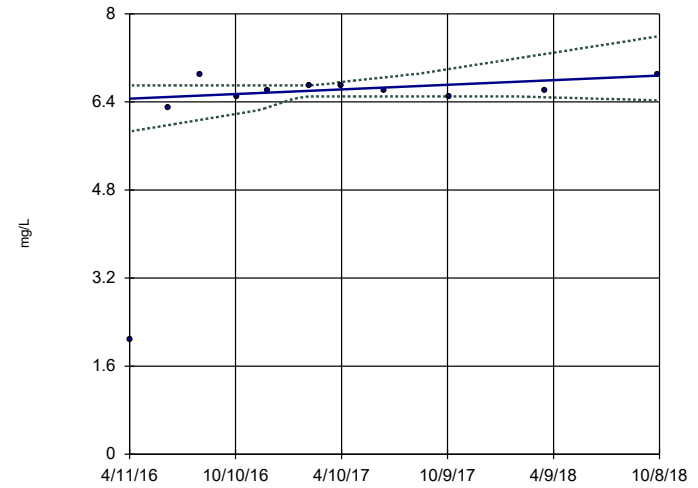


n = 11  
 Slope = -0.06186  
 units per year.  
 Mann-Kendall  
 statistic = -25  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

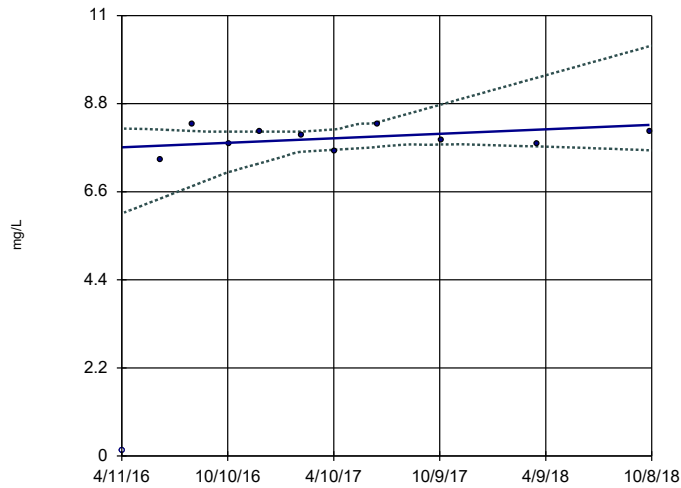


n = 11  
 Slope = 0.169  
 units per year.  
 Mann-Kendall  
 statistic = 19  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

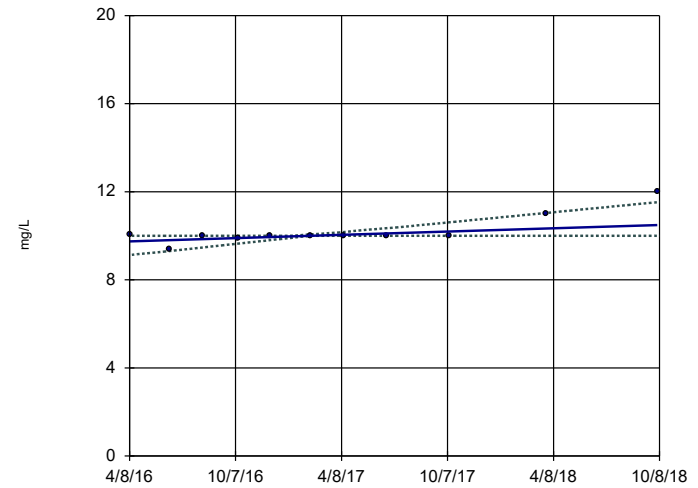


n = 11  
 Slope = 0.2253  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

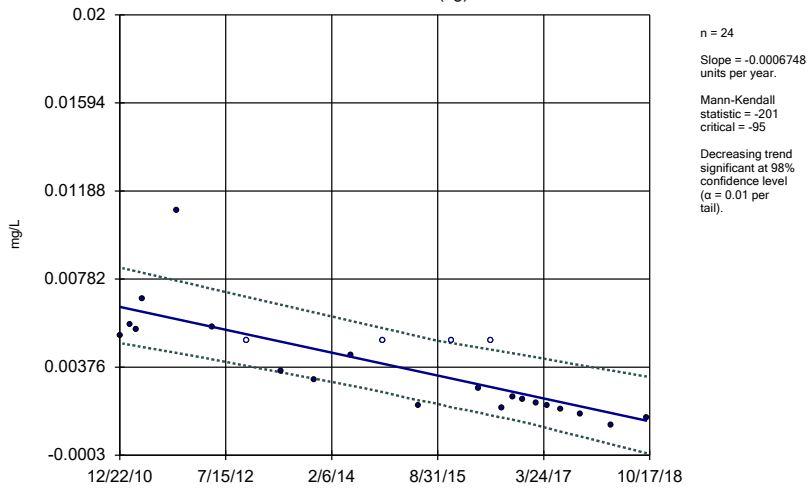
GWC-53



n = 11  
 Slope = 0.2967  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

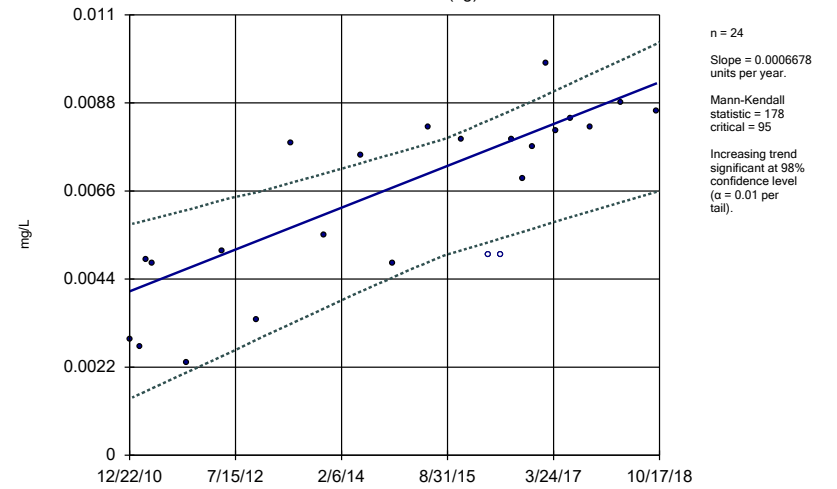
Constituent: Chloride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



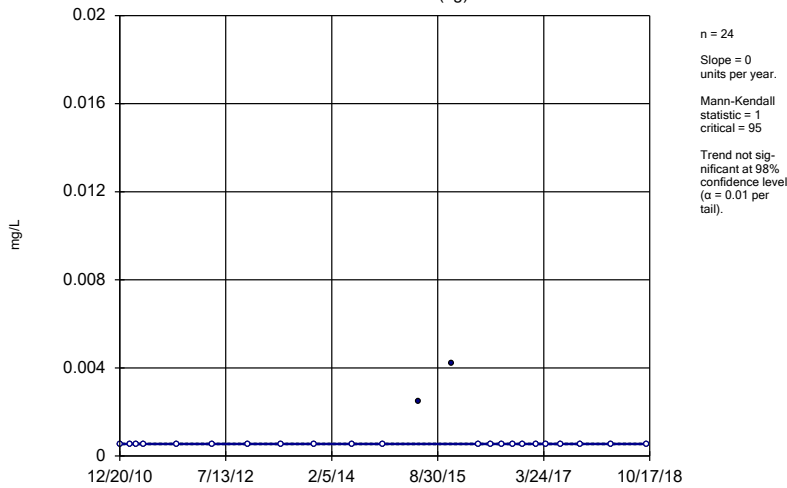
Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



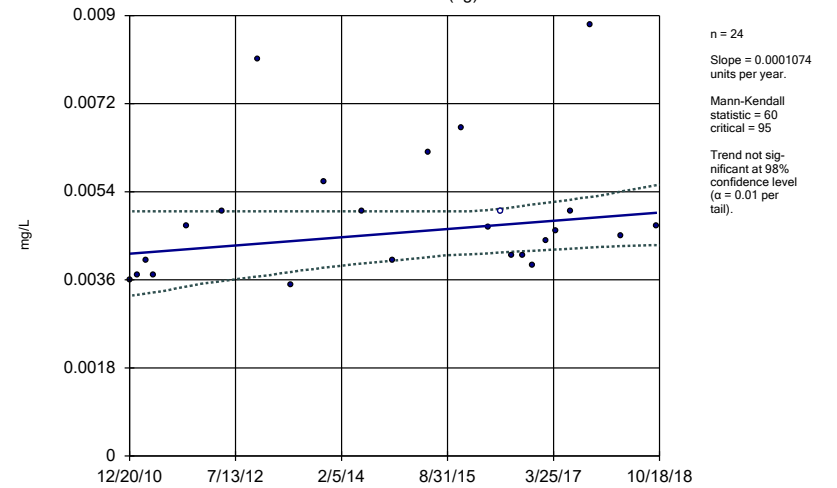
Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

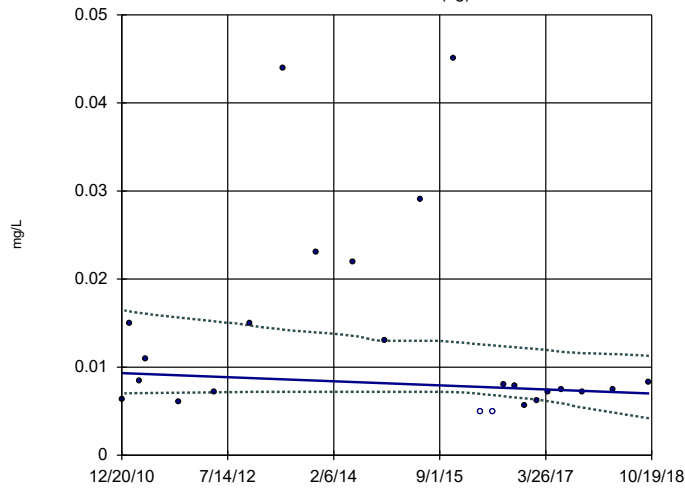
Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-47 (bg)

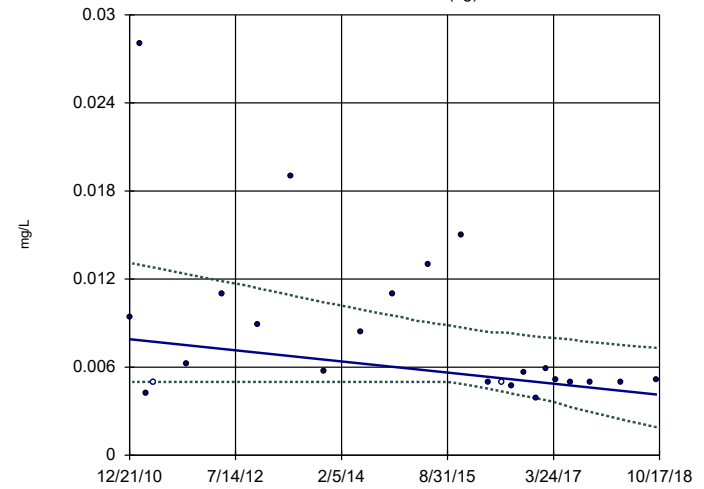


n = 24  
Slope = -0.000295  
units per year.  
Mann-Kendall  
statistic = -36  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-48 (bg)

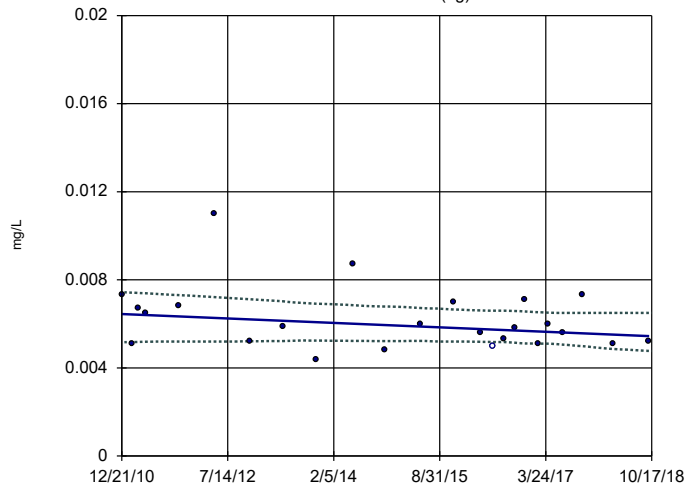


n = 24  
Slope = -0.0004847  
units per year.  
Mann-Kendall  
statistic = -78  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-49 (bg)

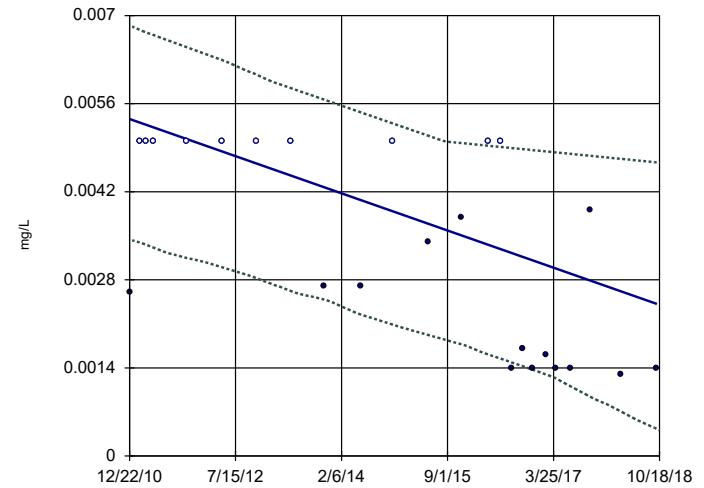


n = 24  
Slope = -0.0001288  
units per year.  
Mann-Kendall  
statistic = -39  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

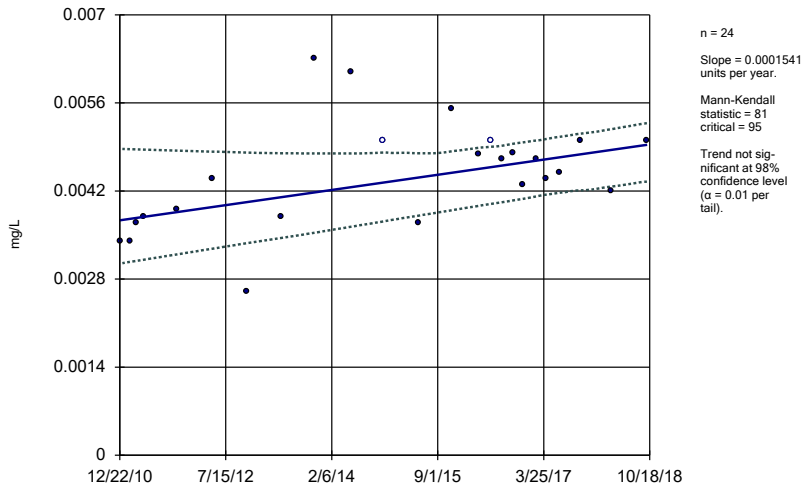
GWC-29



n = 24  
Slope = -0.0003773  
units per year.  
Mann-Kendall  
statistic = -132  
critical = -95  
Decreasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

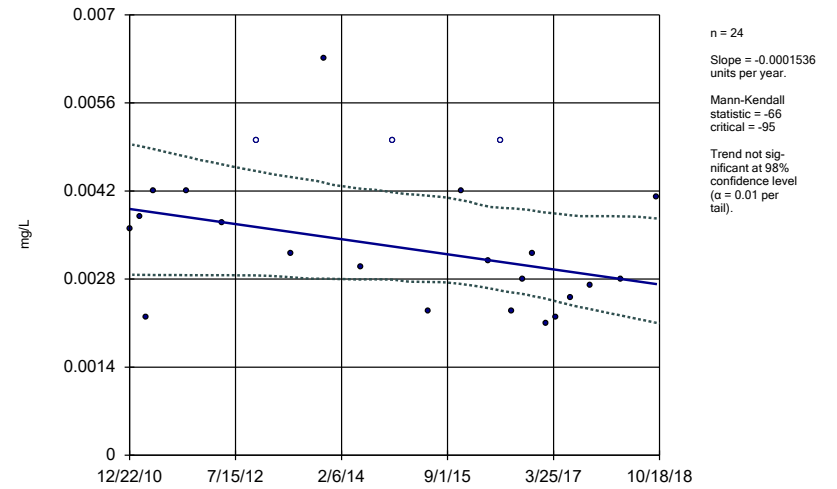
Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



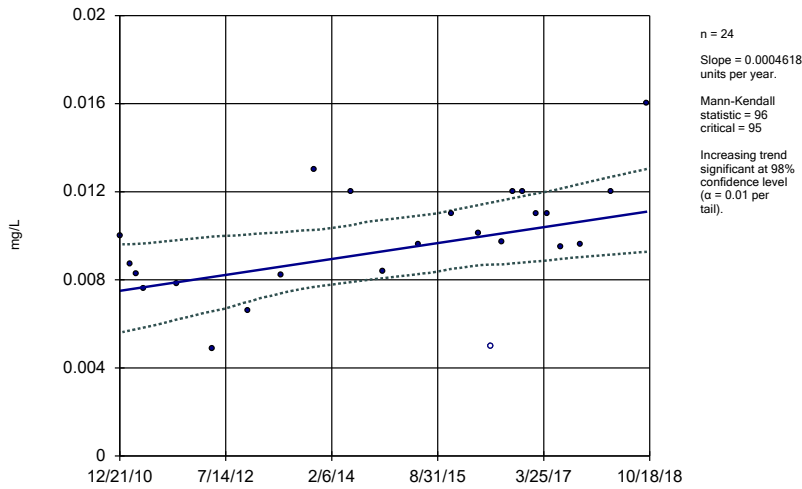
Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



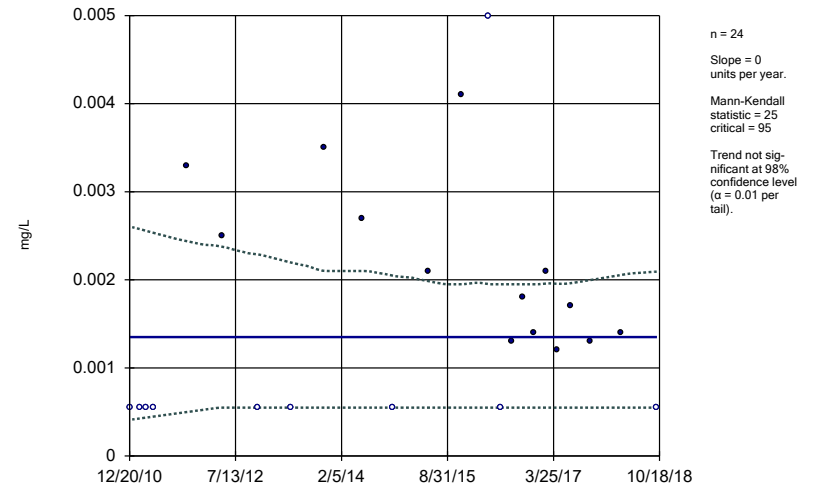
Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

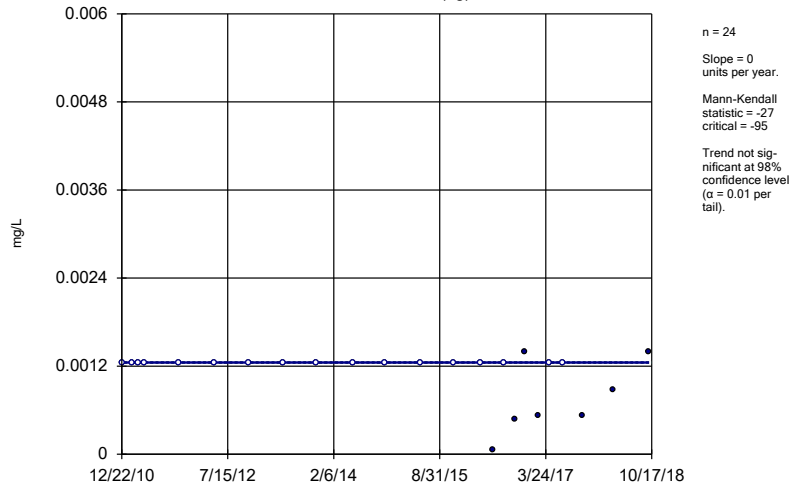
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Chromium, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

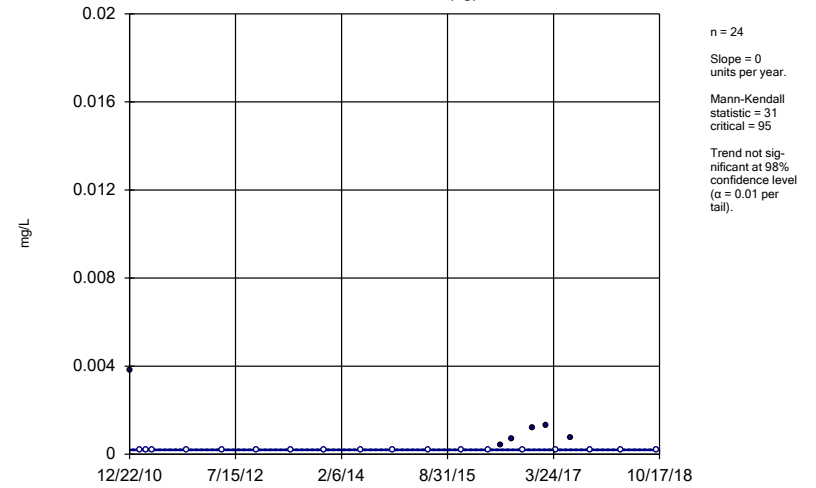
GWA-21 (bg)



Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

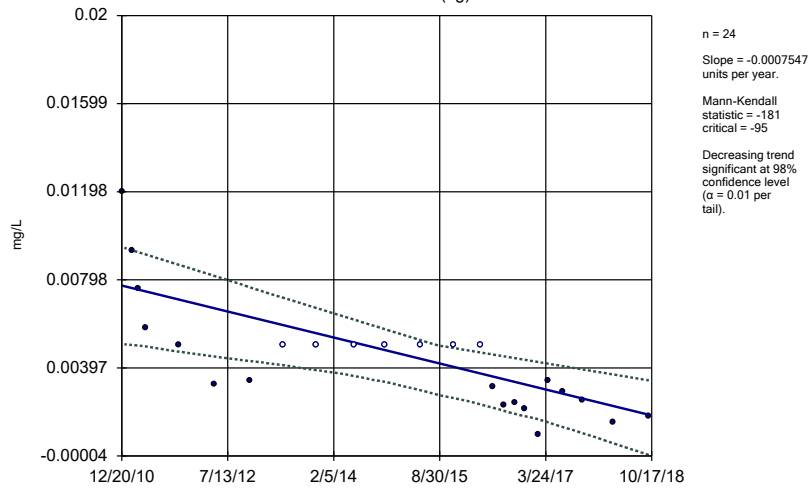
GWA-22 (bg)



Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

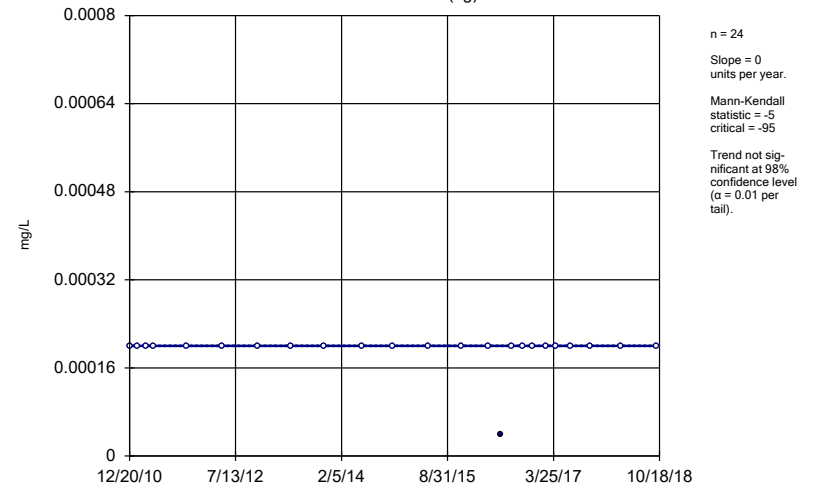
GWA-45 (bg)



Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

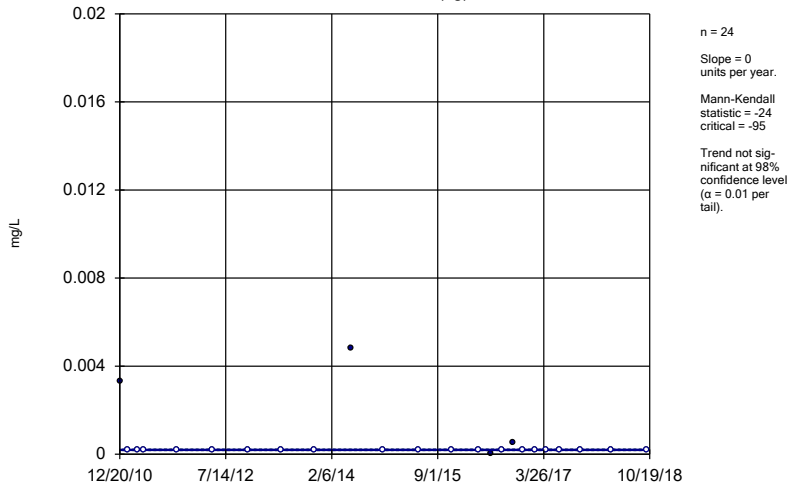
Sen's Slope and 95% Confidence Band

GWA-46 (bg)



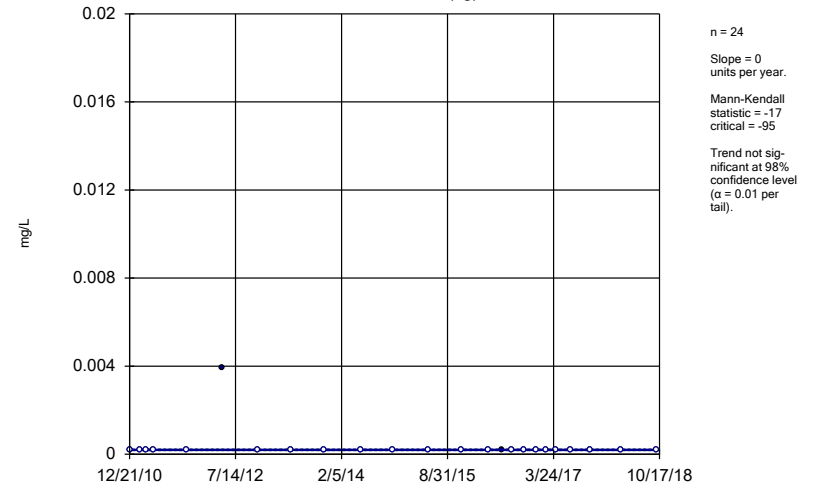
Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



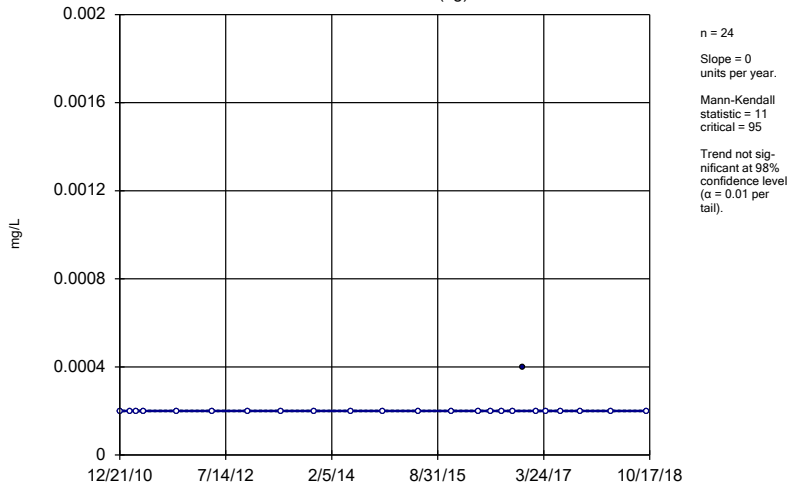
Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



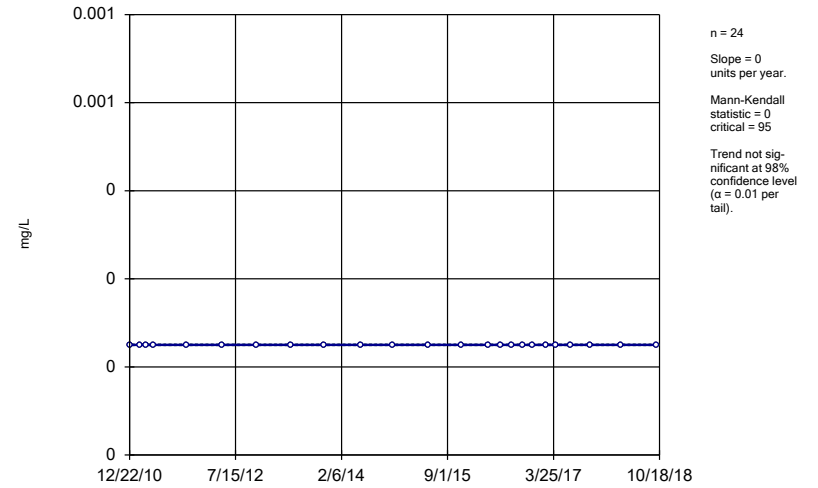
Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

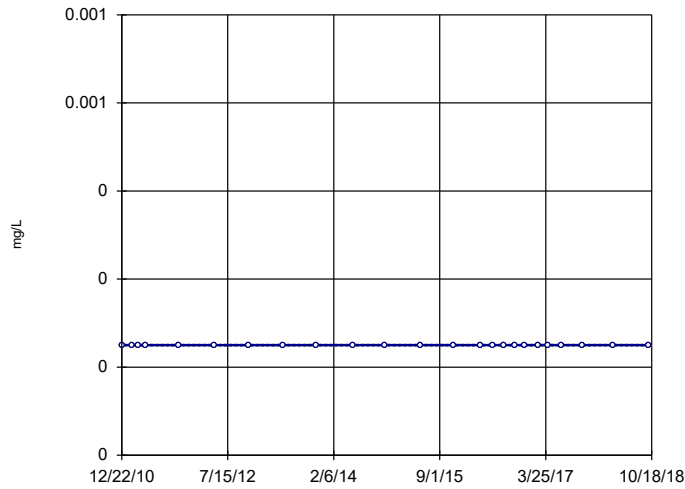
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-50

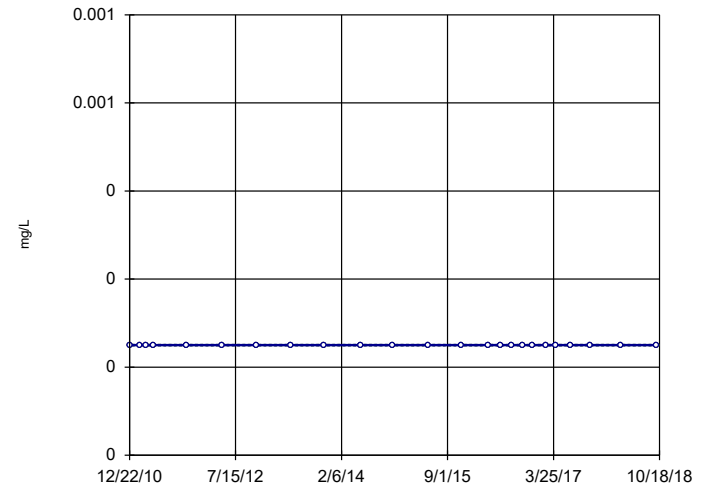


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-51

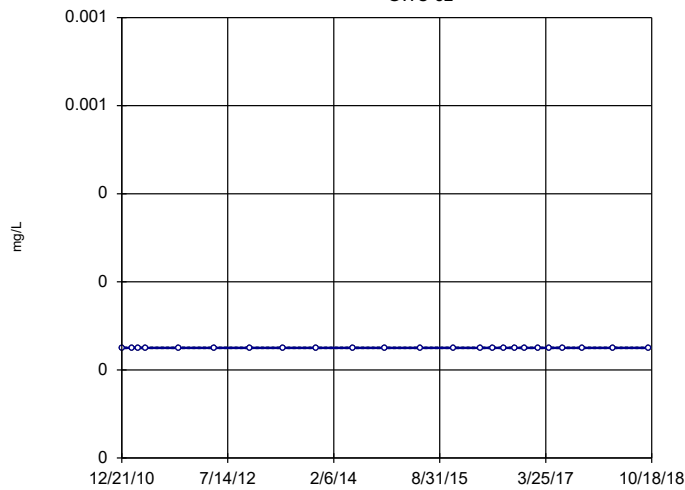


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-52

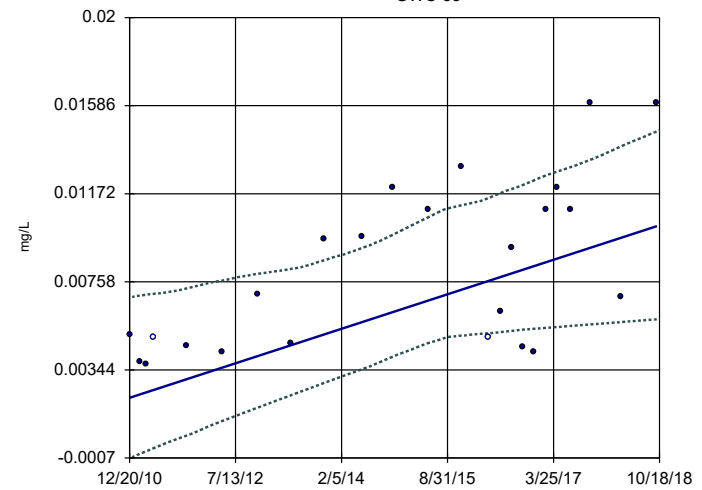


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

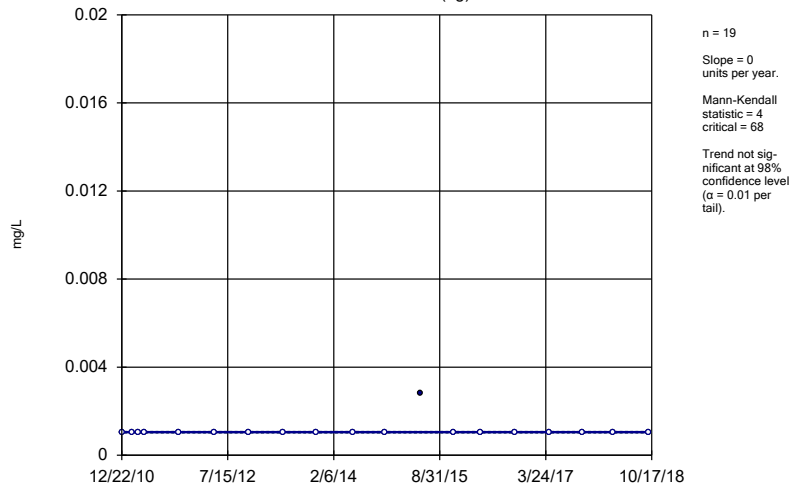
GWC-53



n = 24  
Slope = 0.001035  
units per year.  
Mann-Kendall  
statistic = 119  
critical = 95  
Increasing trend  
significant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

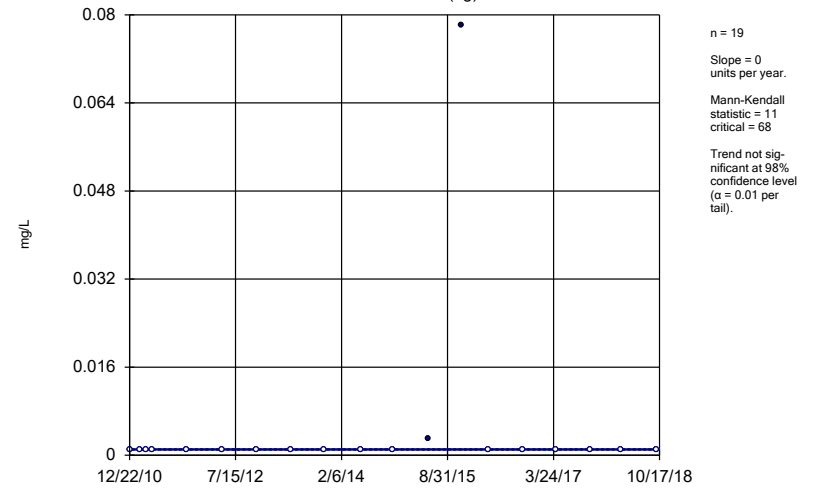
Constituent: Cobalt, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
 GWA-21 (bg)



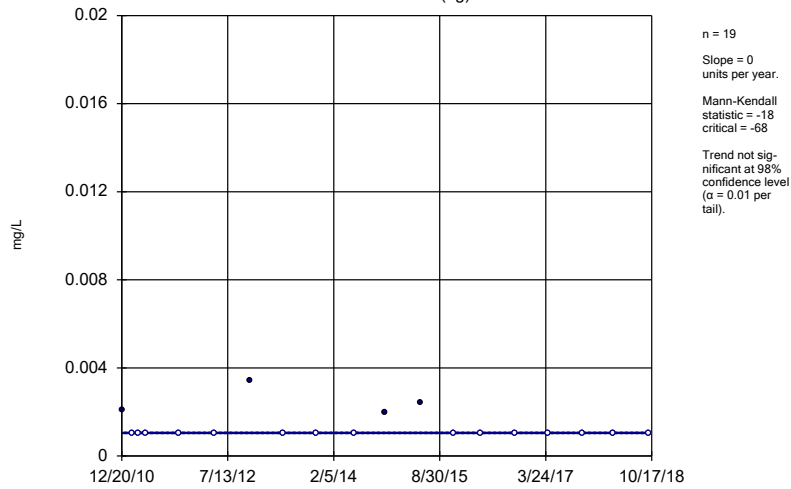
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
 GWA-22 (bg)



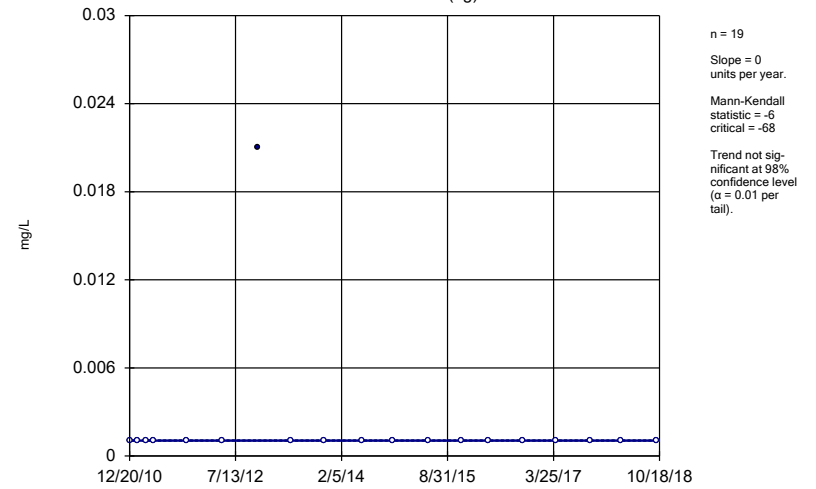
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
 GWA-45 (bg)



Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

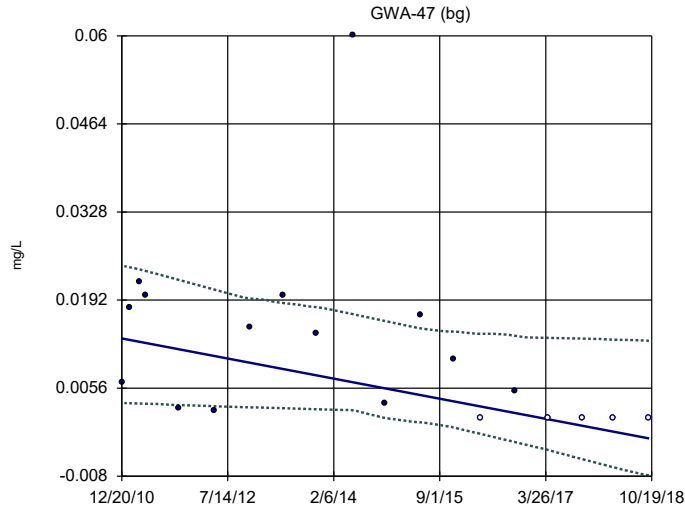
Sen's Slope and 95% Confidence Band  
 GWA-46 (bg)



Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

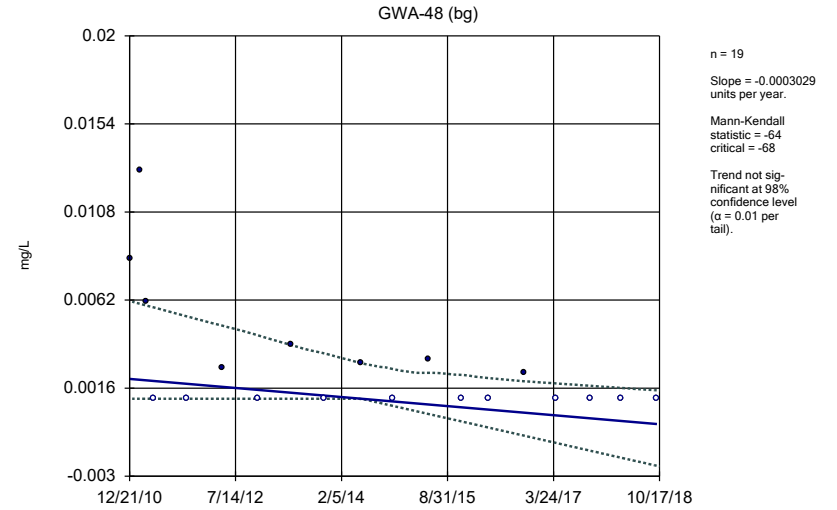


Sen's Slope and 95% Confidence Band



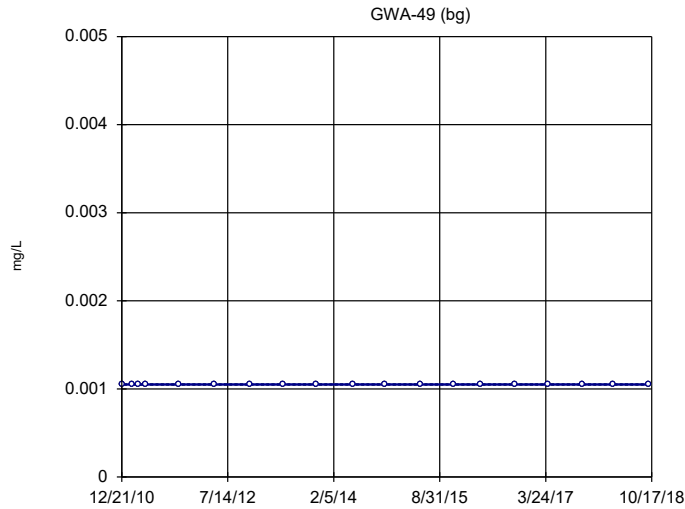
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band



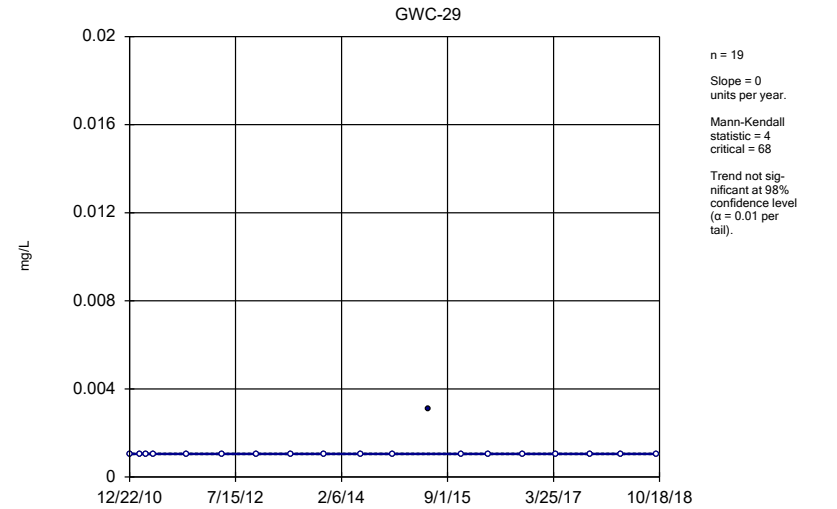
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band



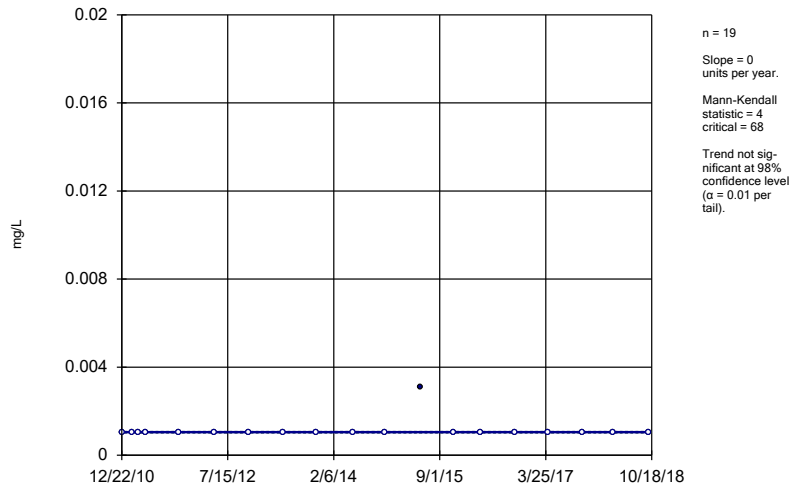
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band



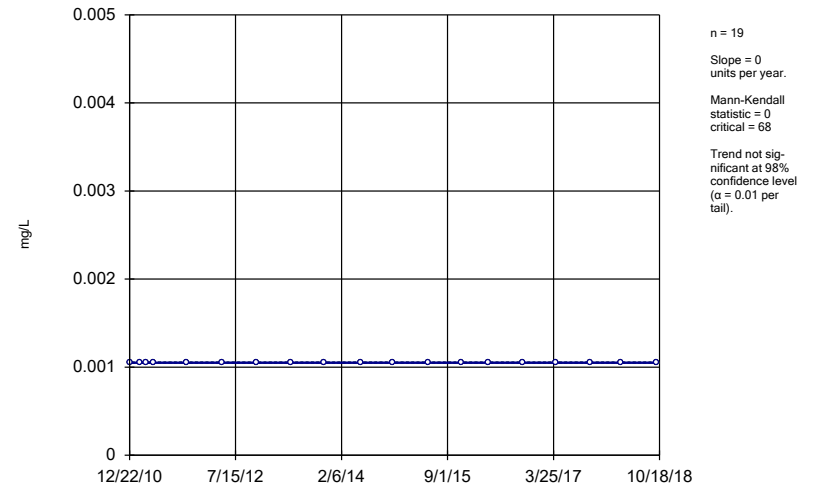
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



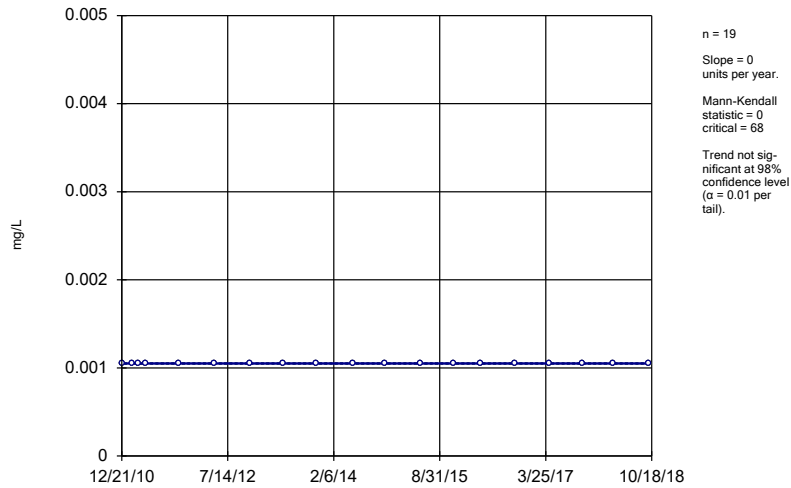
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



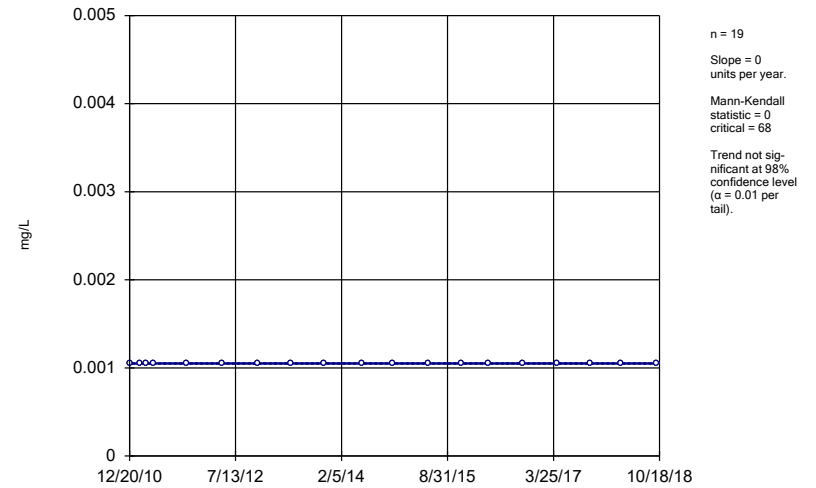
Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

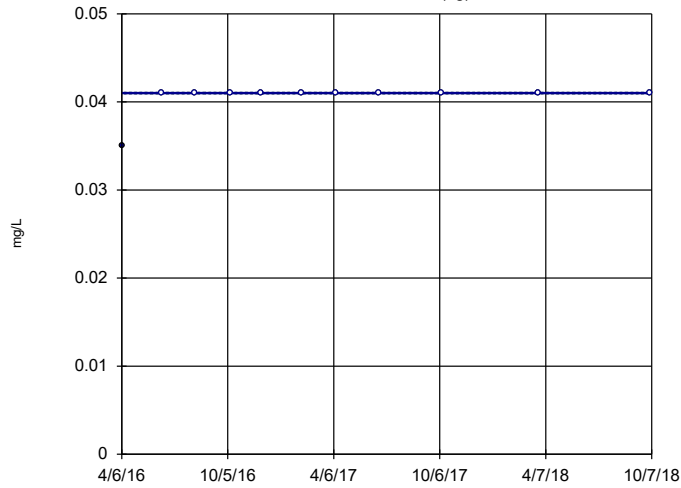
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Copper, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLS  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-21 (bg)

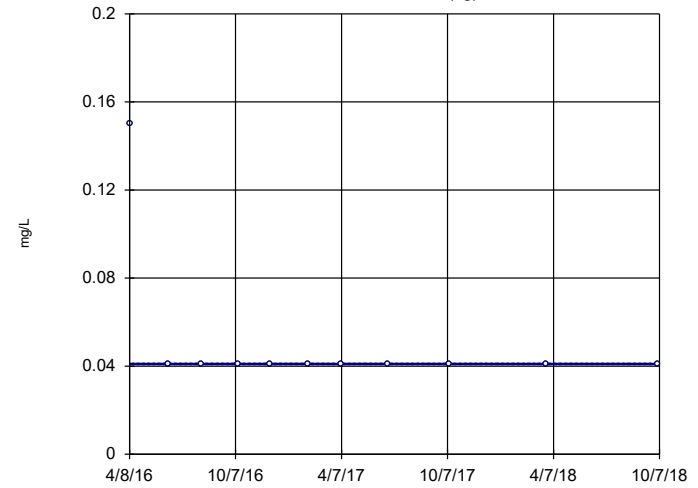


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-22 (bg)

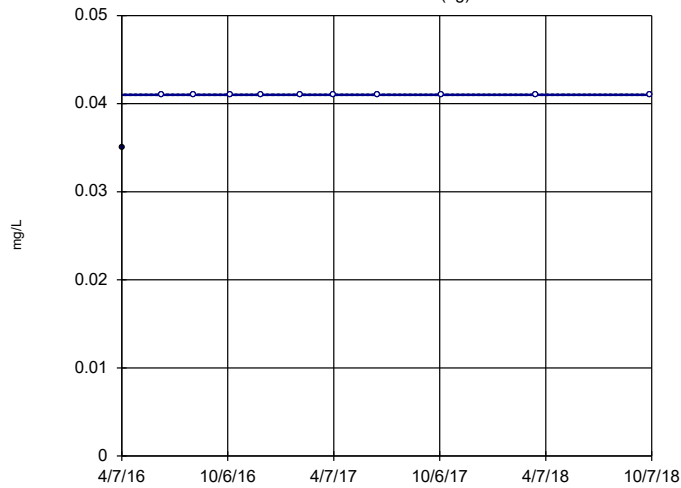


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -10  
critical = -31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-45 (bg)

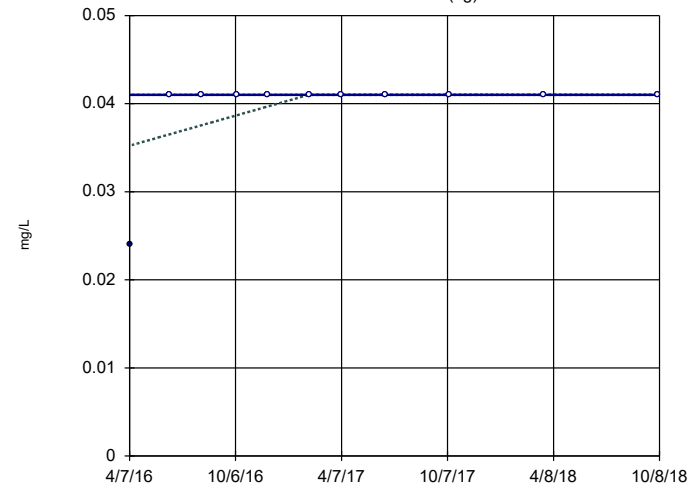


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

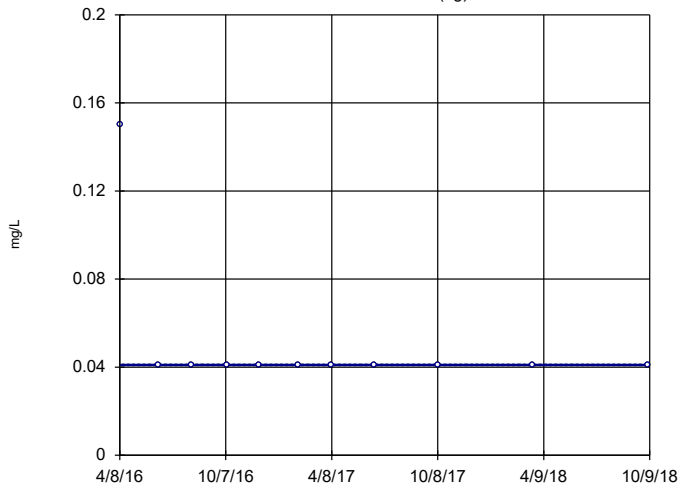
GWA-46 (bg)



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

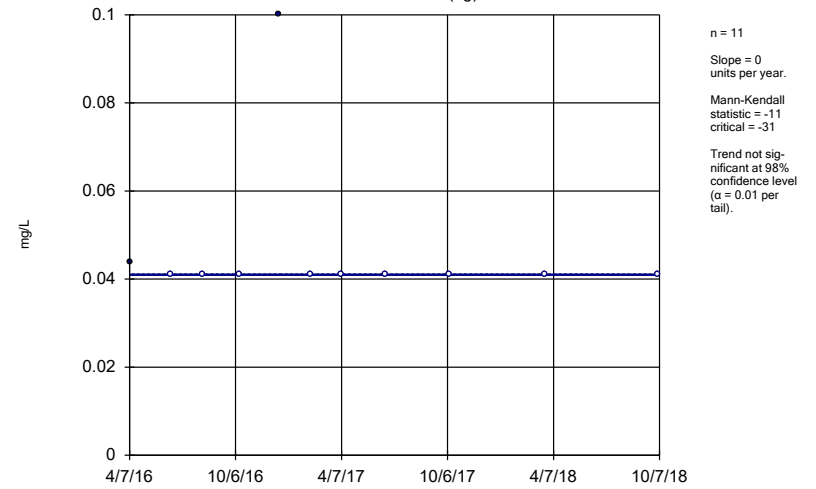
Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



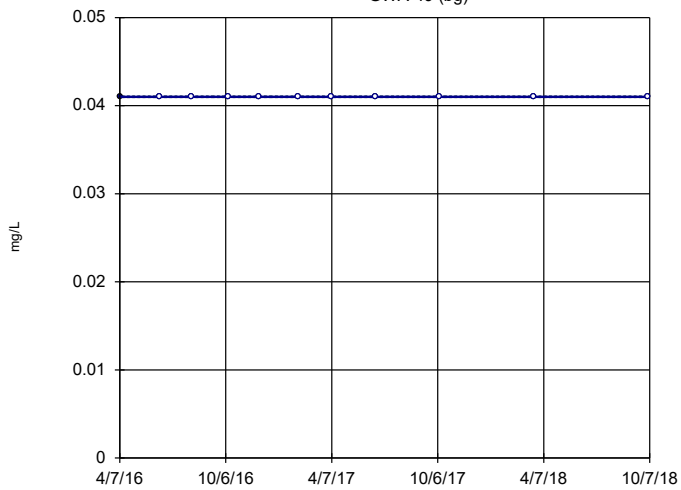
Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



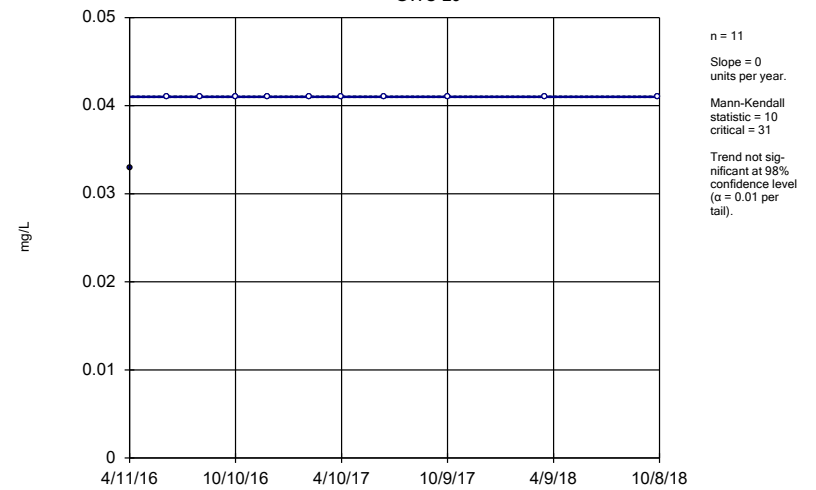
Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

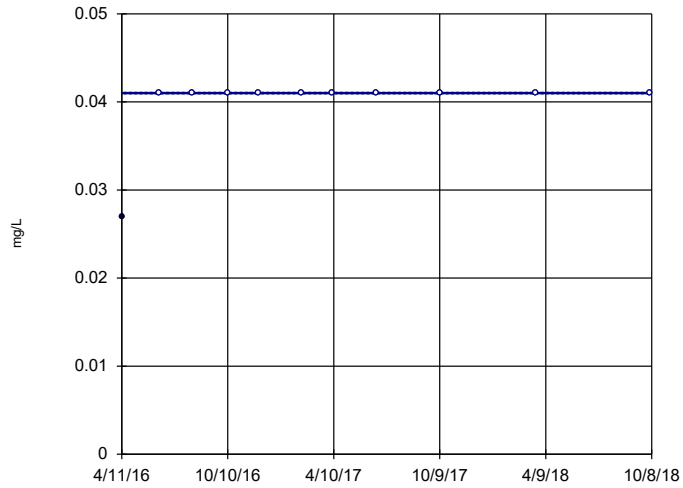
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

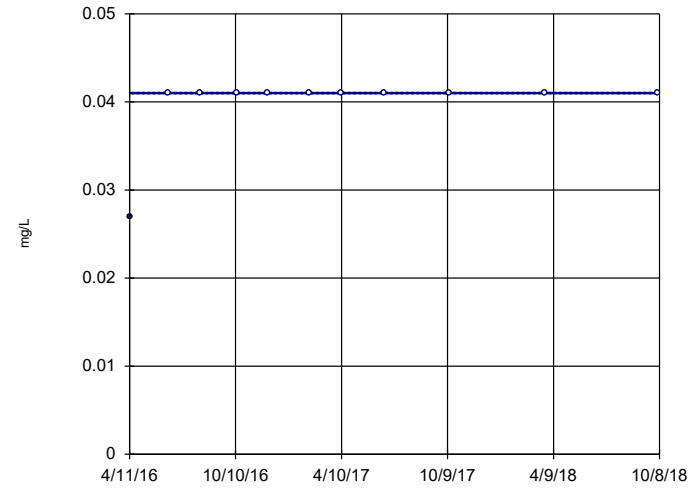


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

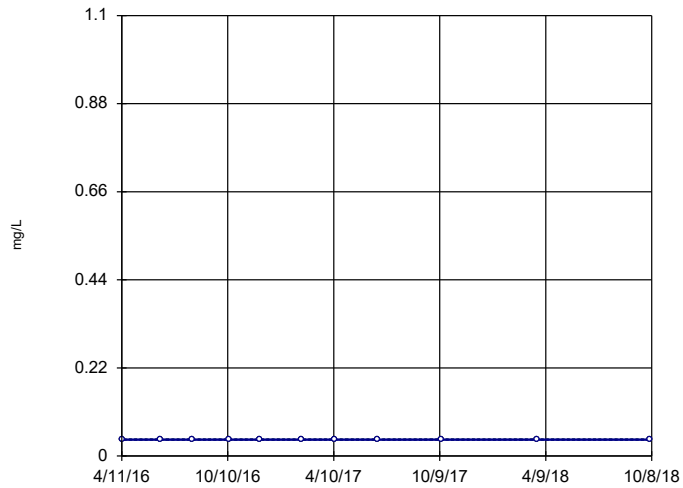


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 10  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

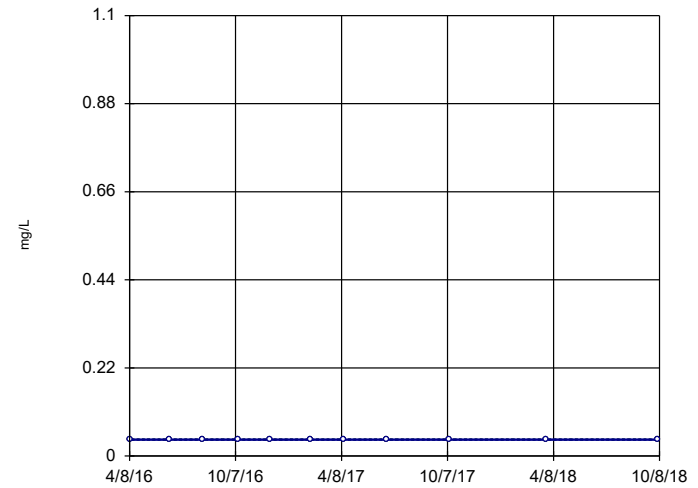


n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

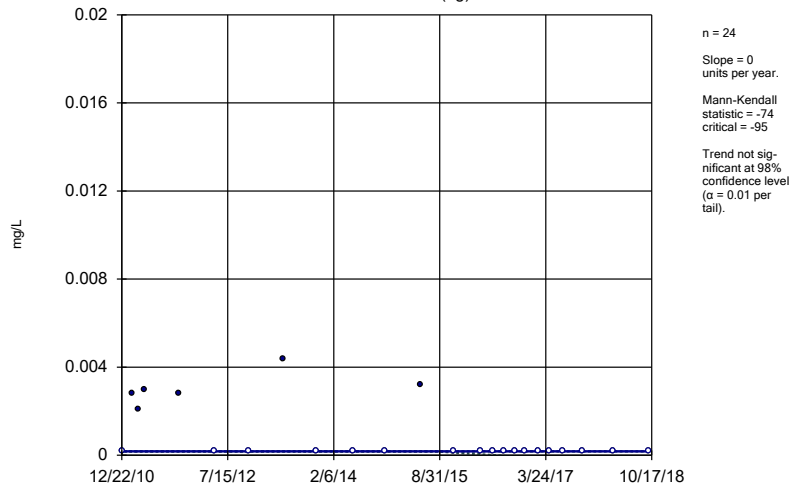
GWC-53



n = 11  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 31  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

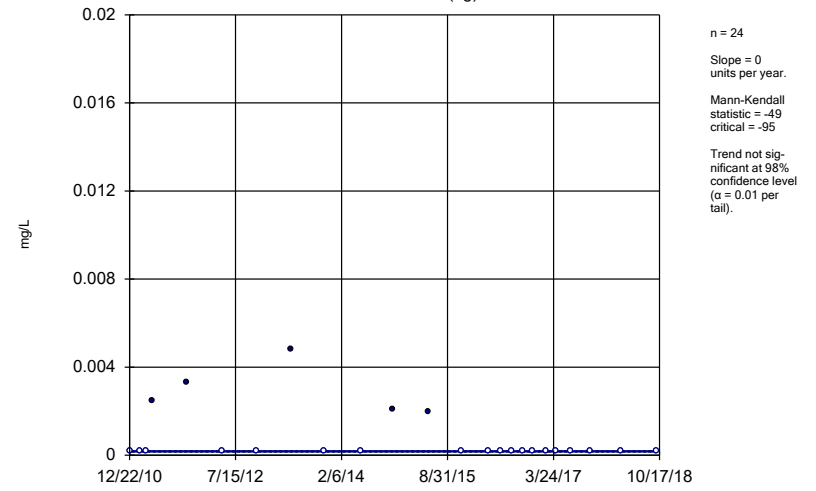
Constituent: Fluoride Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



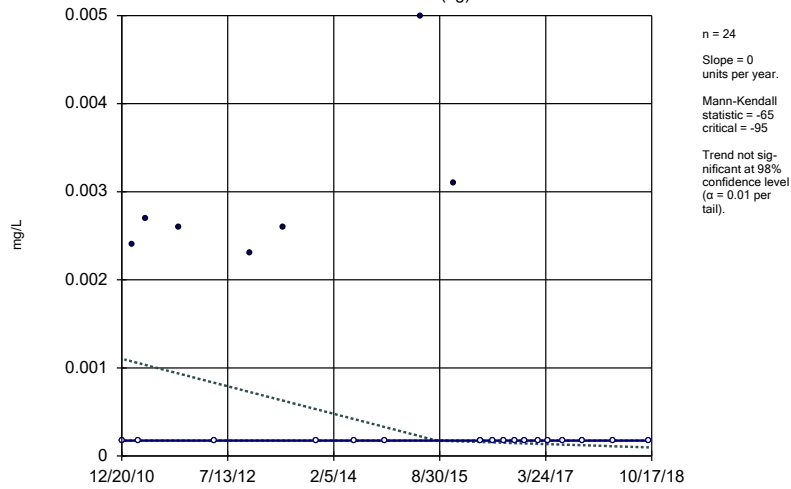
Constituent: Lead, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



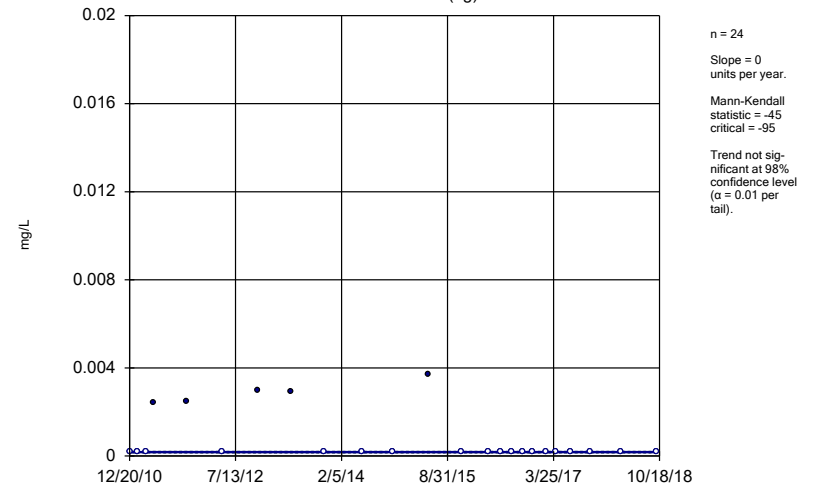
Constituent: Lead, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



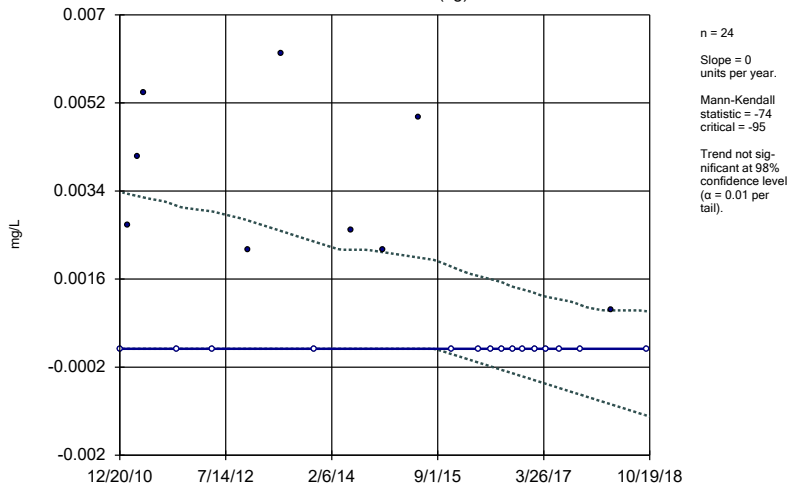
Constituent: Lead, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



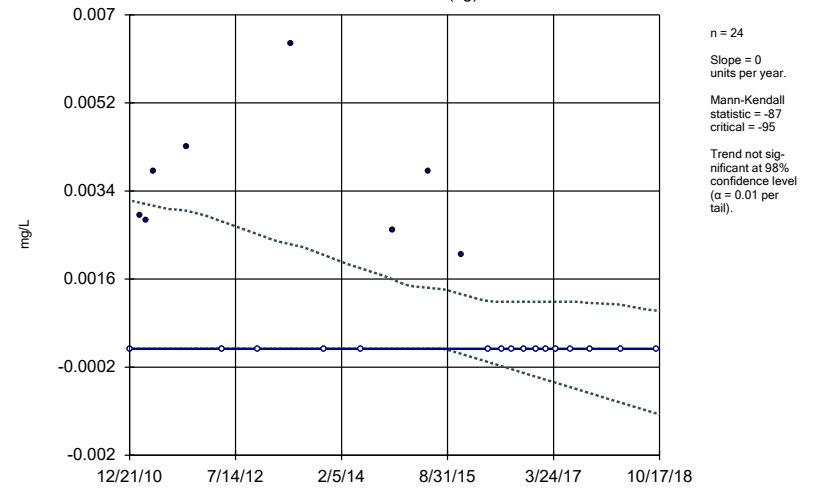
Constituent: Lead, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



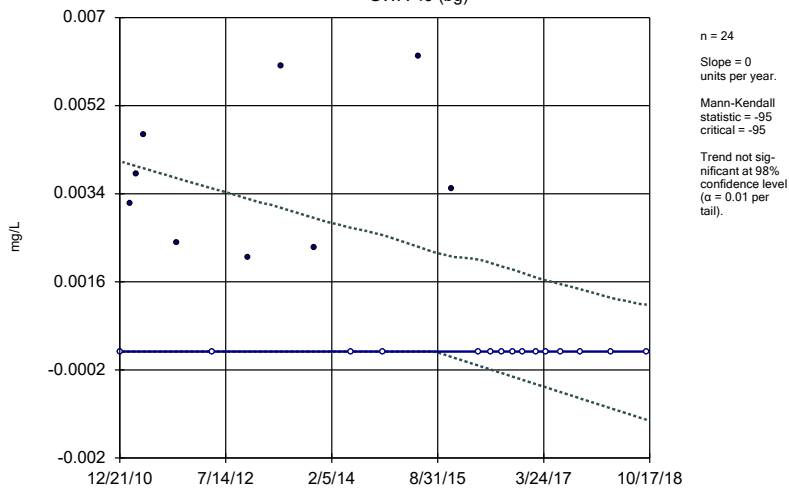
Constituent: Lead, Total Analysis Run 4/26/2019 2:52 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



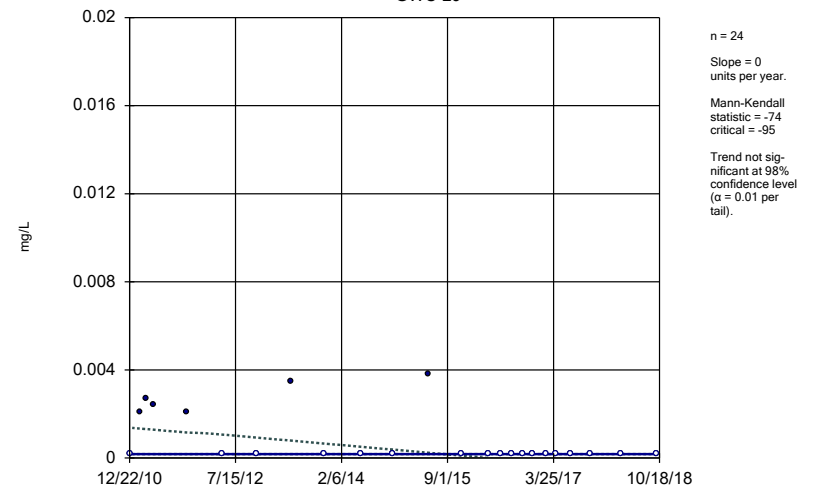
Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



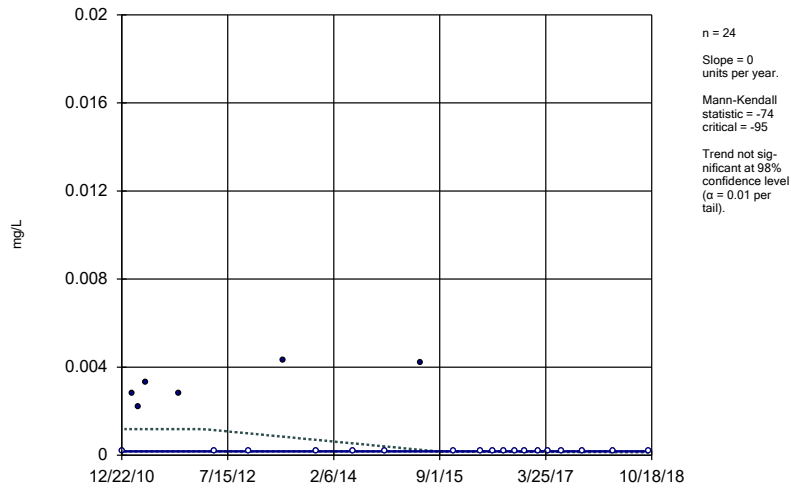
Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



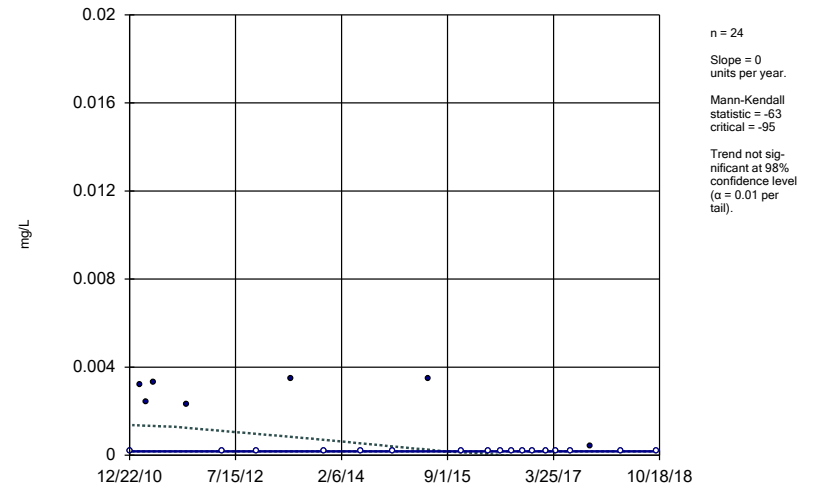
Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



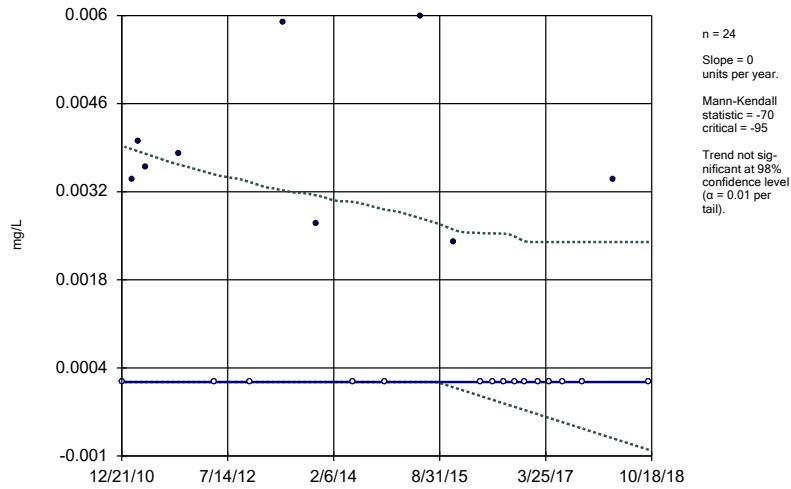
Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



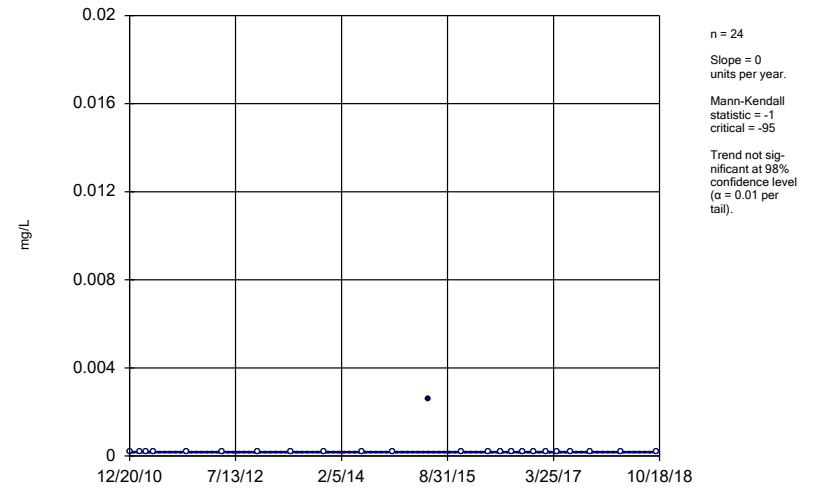
Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

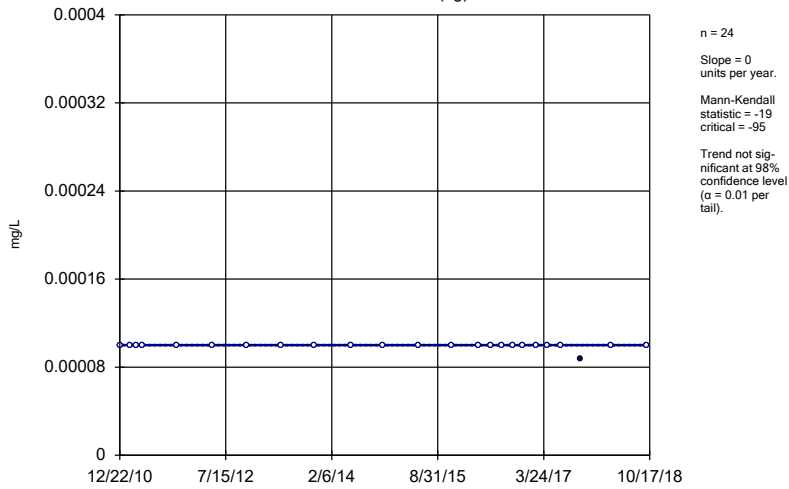
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Lead, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

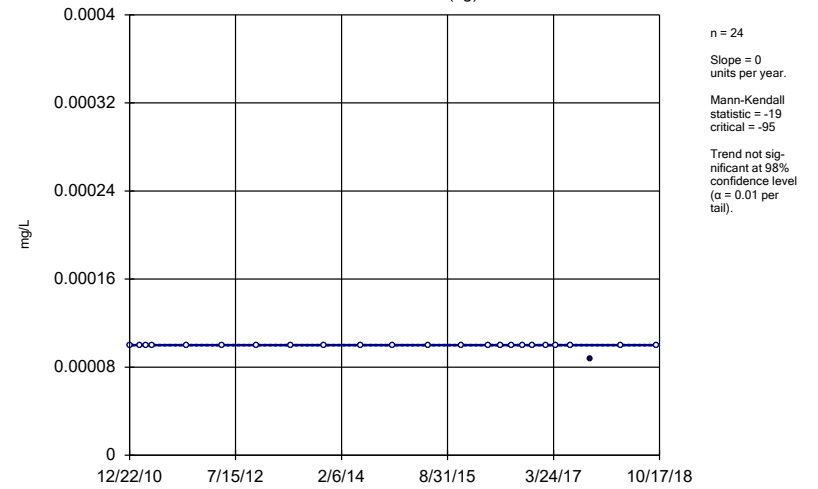


Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



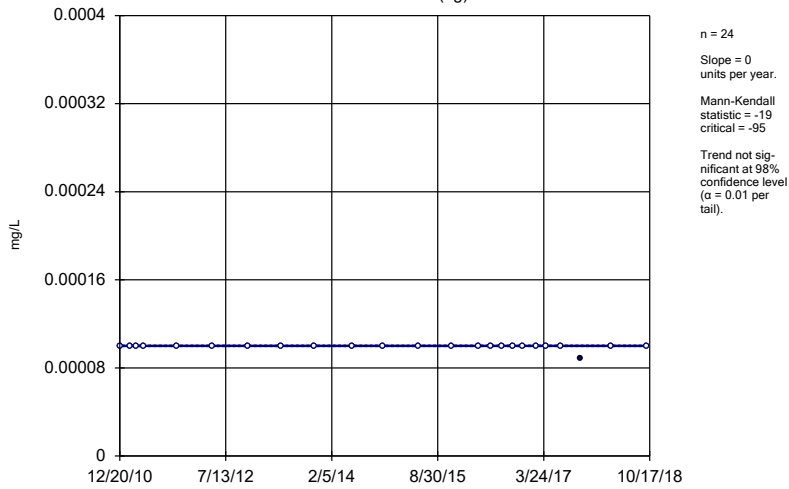
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



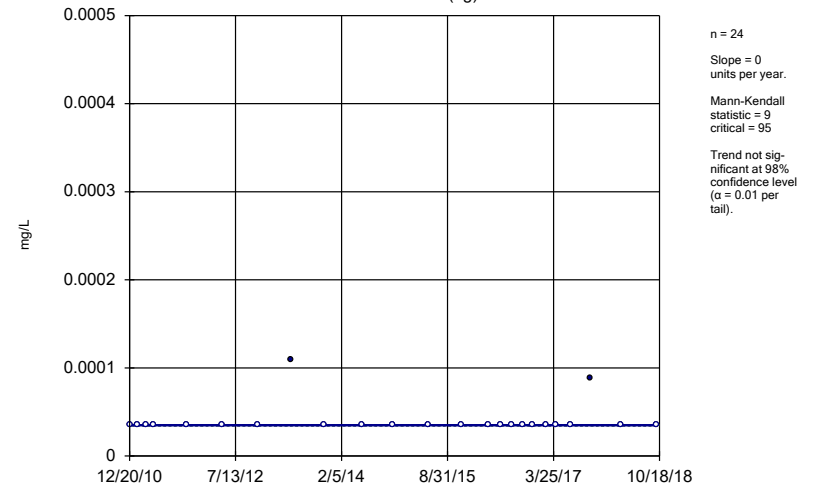
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



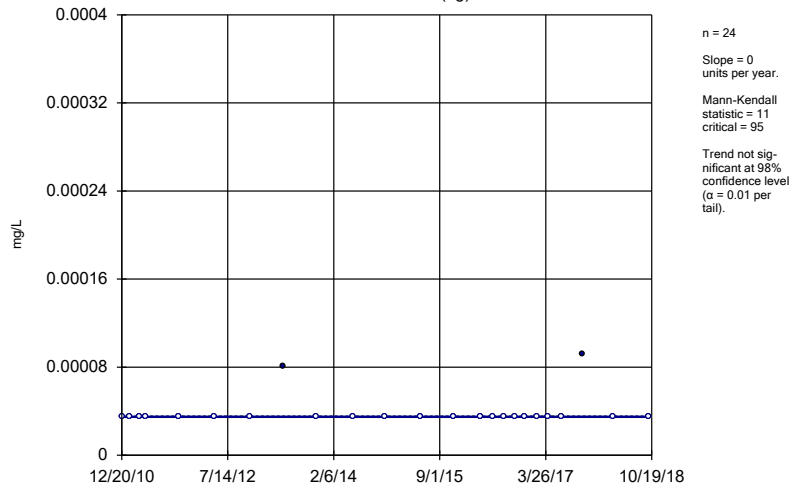
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



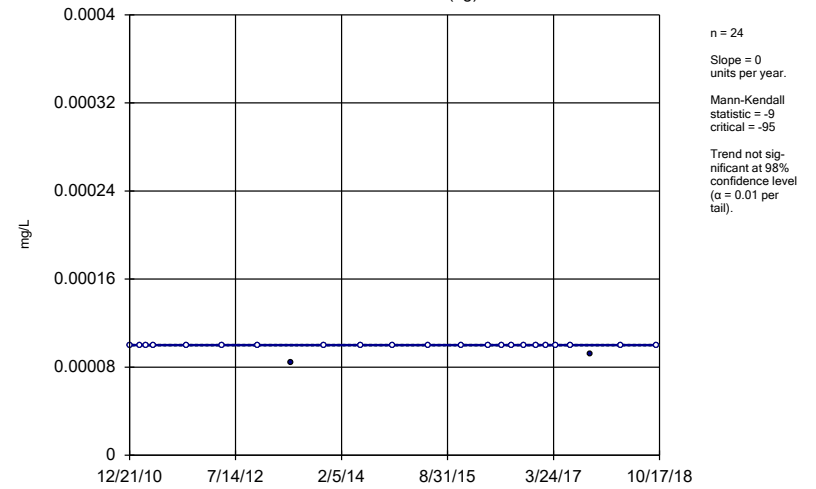
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



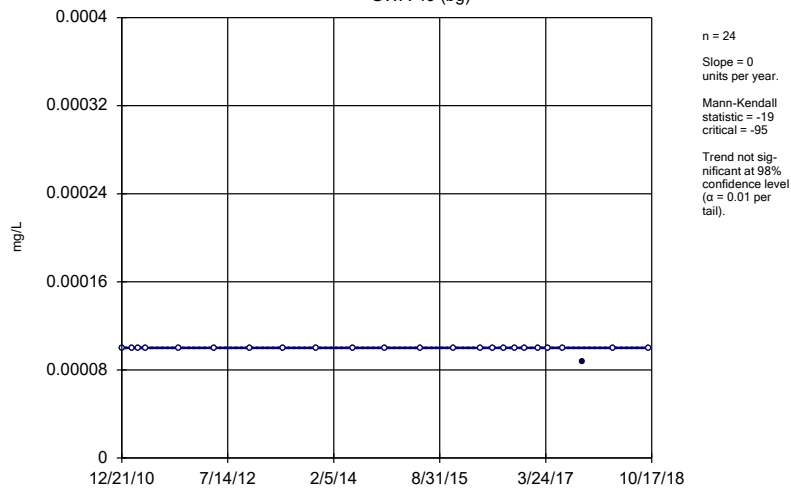
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



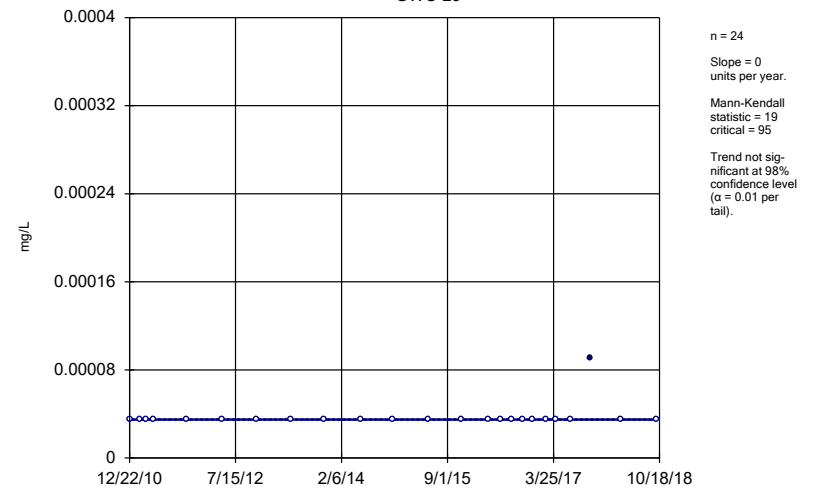
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

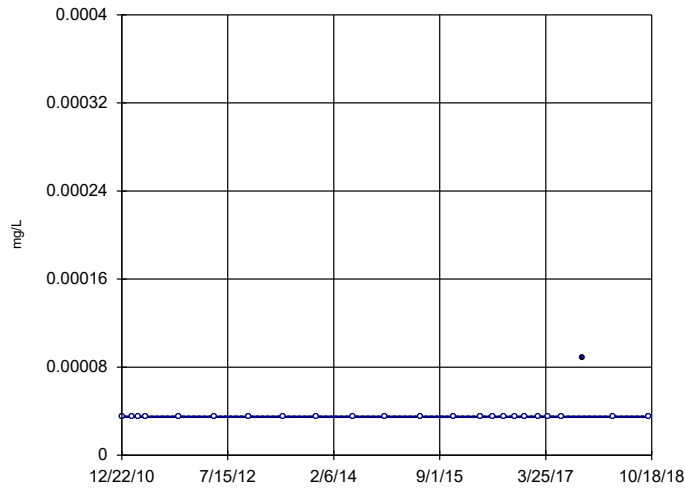
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

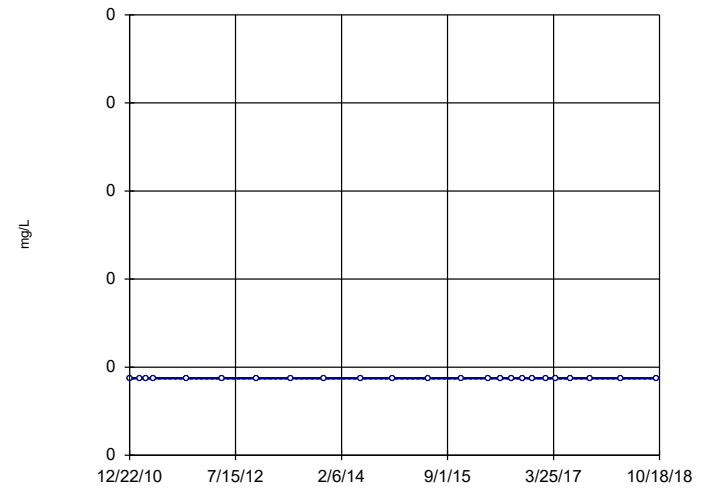


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 19  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

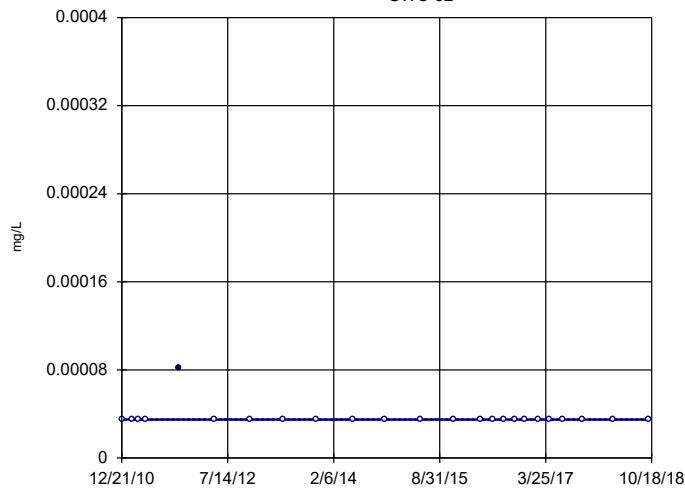


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

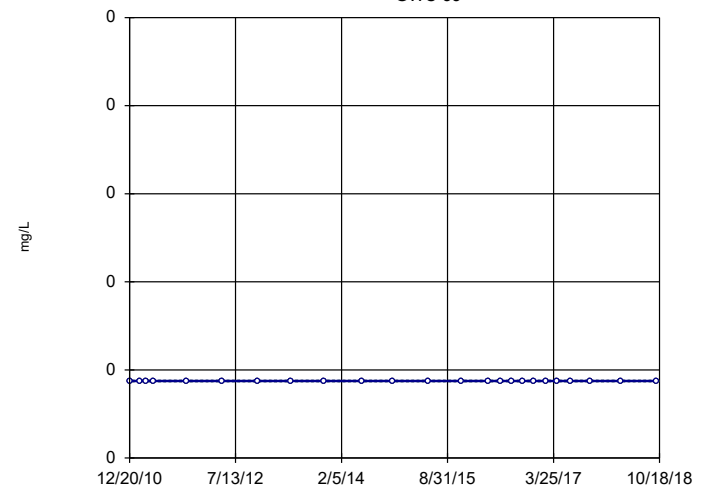


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -15  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

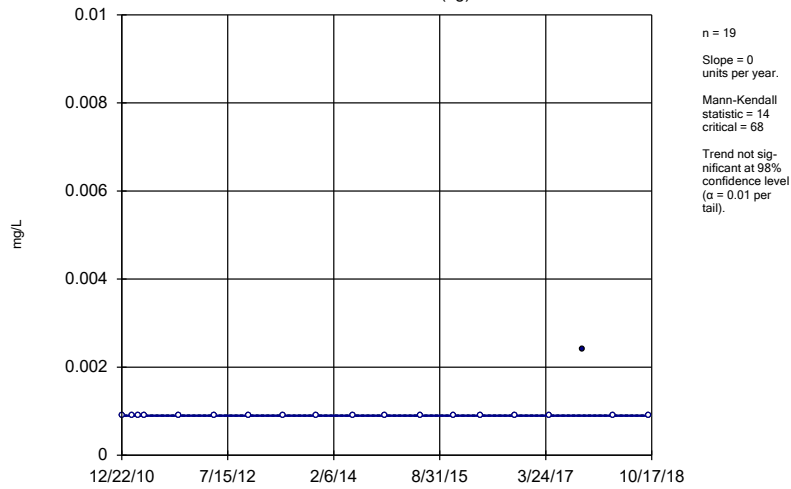
GWC-53



n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

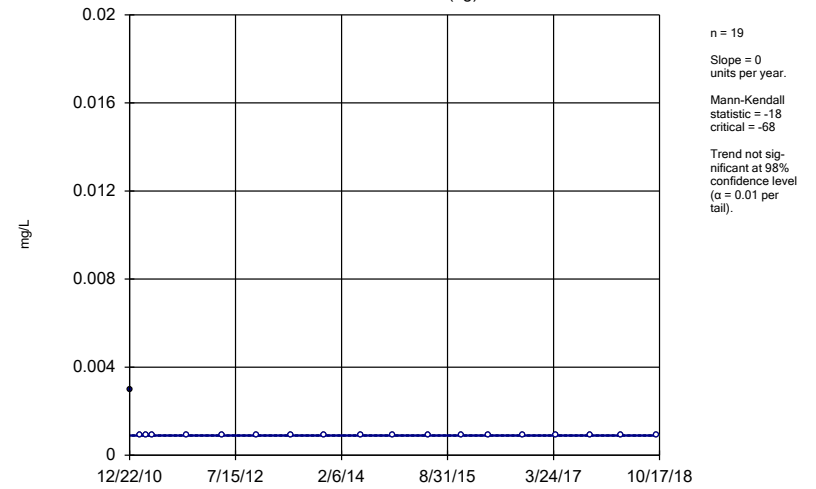
Constituent: Mercury, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



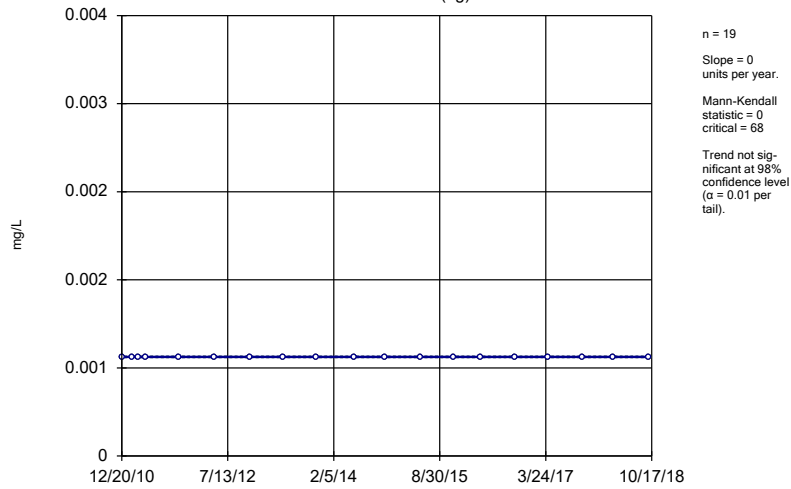
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



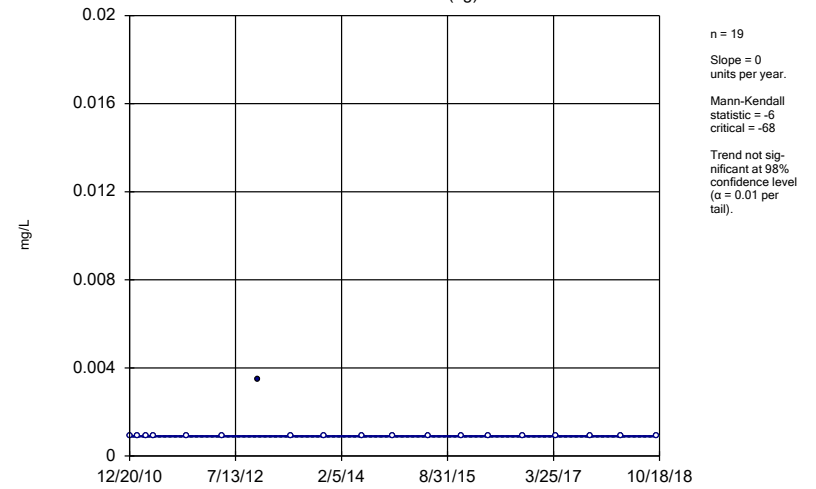
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



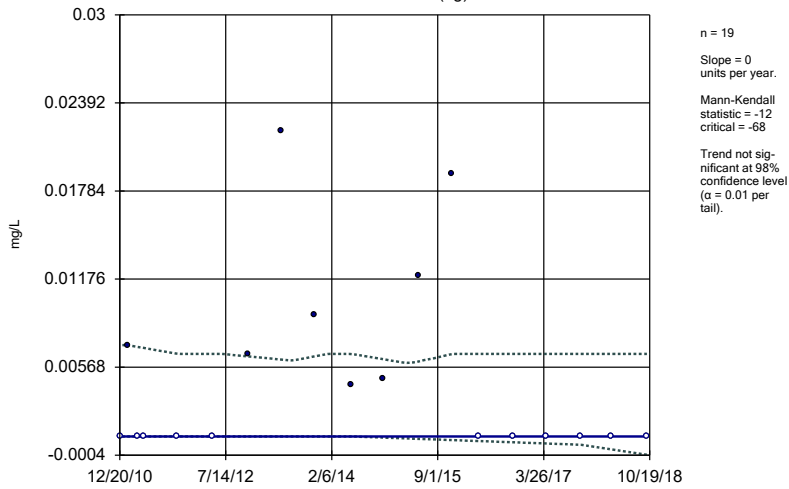
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



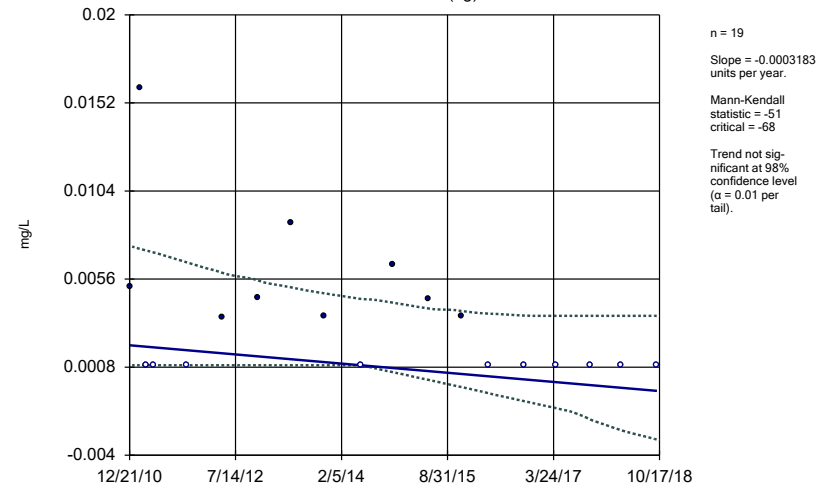
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



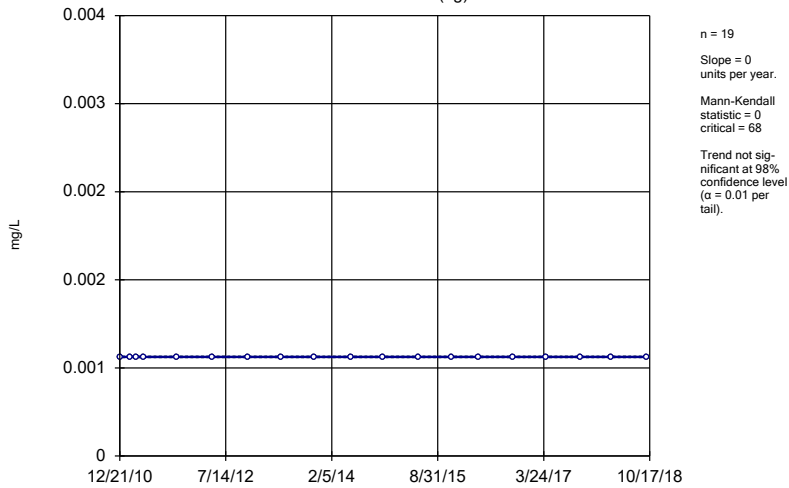
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



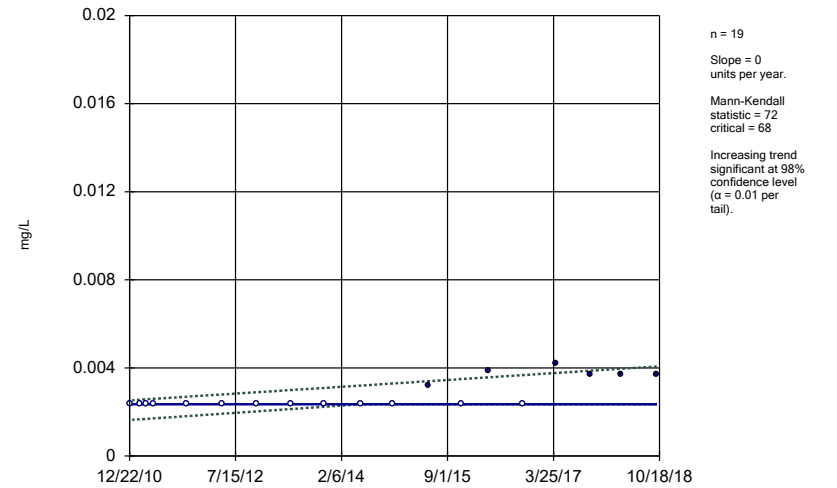
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



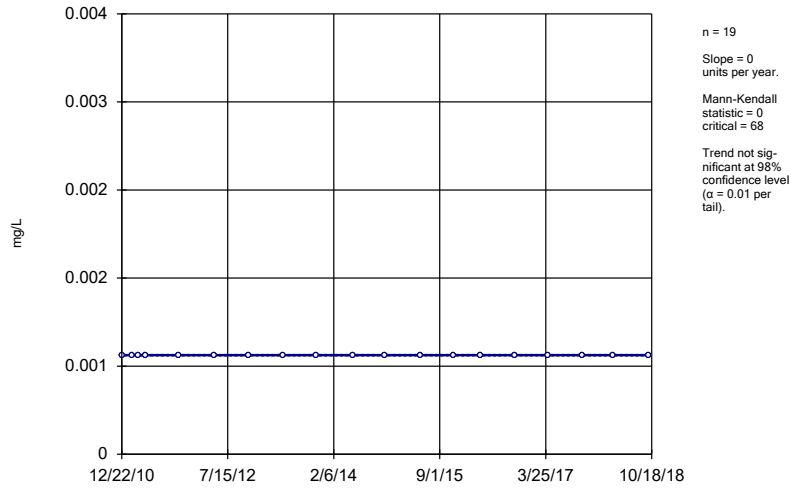
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



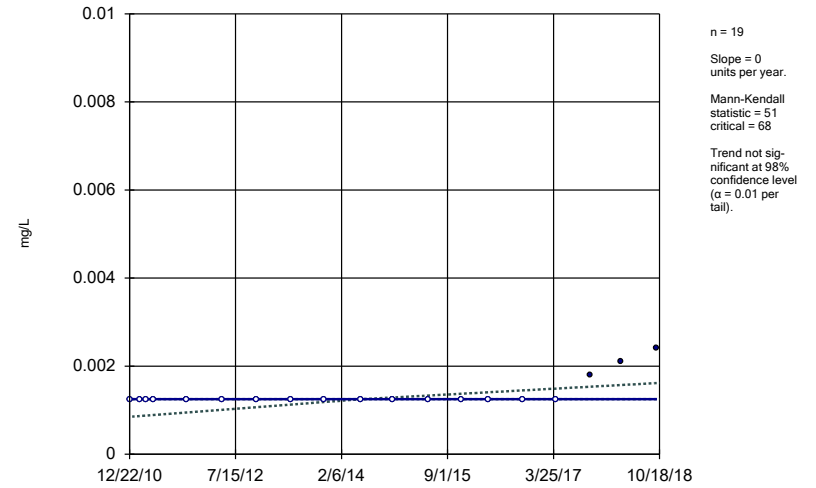
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



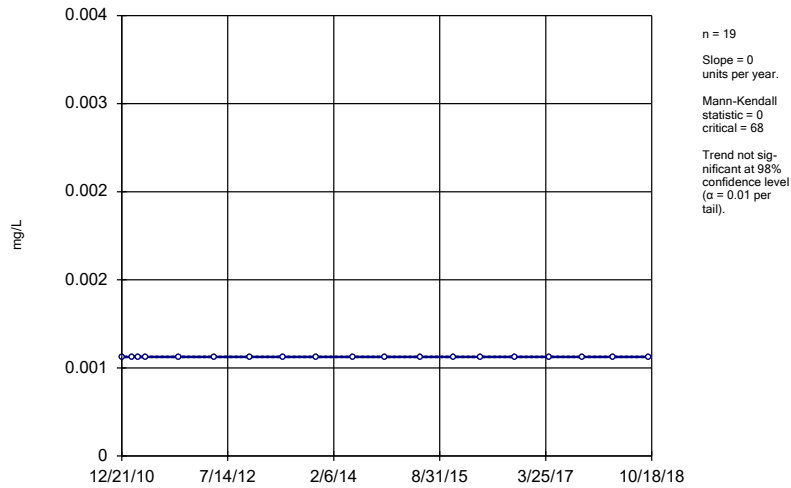
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



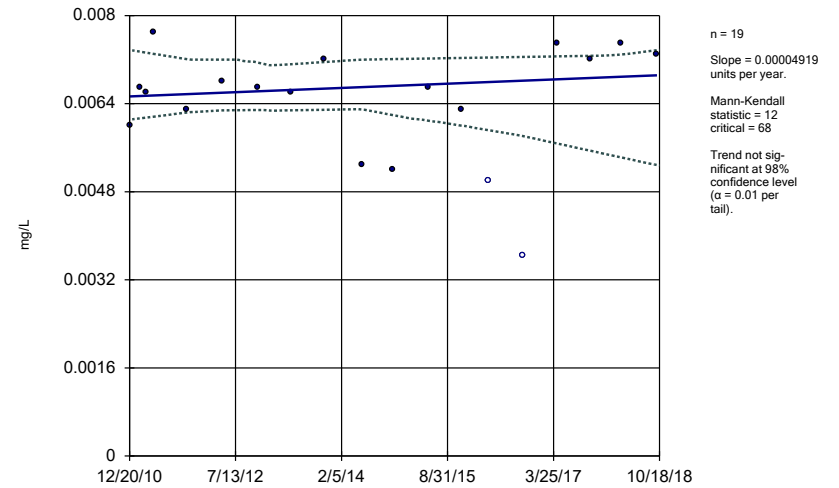
Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

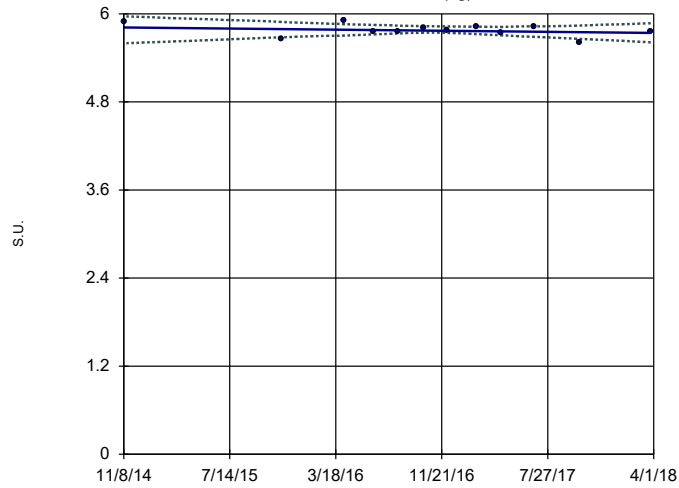
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Nickel, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-21 (bg)

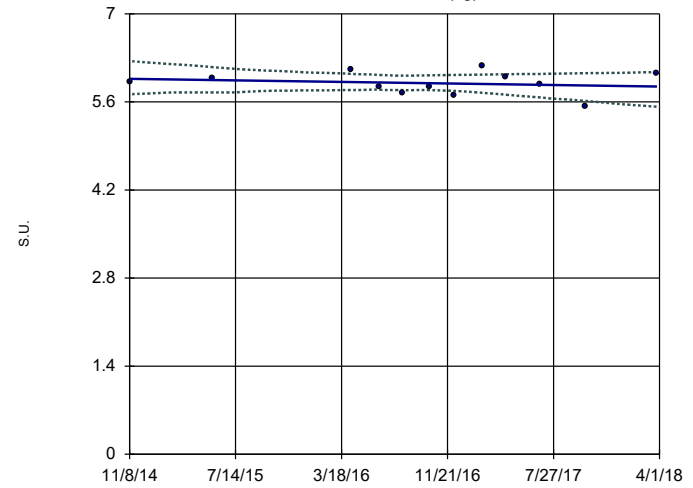


n = 12  
 Slope = -0.02188  
 units per year.  
 Mann-Kendall  
 statistic = -10  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-22 (bg)

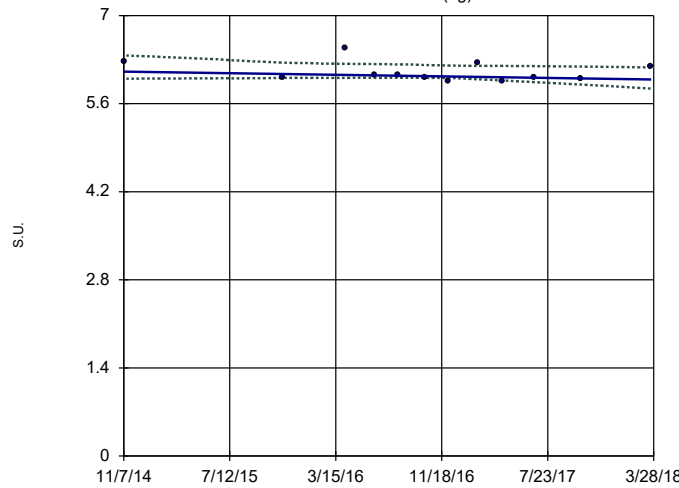


n = 12  
 Slope = -0.03604  
 units per year.  
 Mann-Kendall  
 statistic = -5  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-45 (bg)

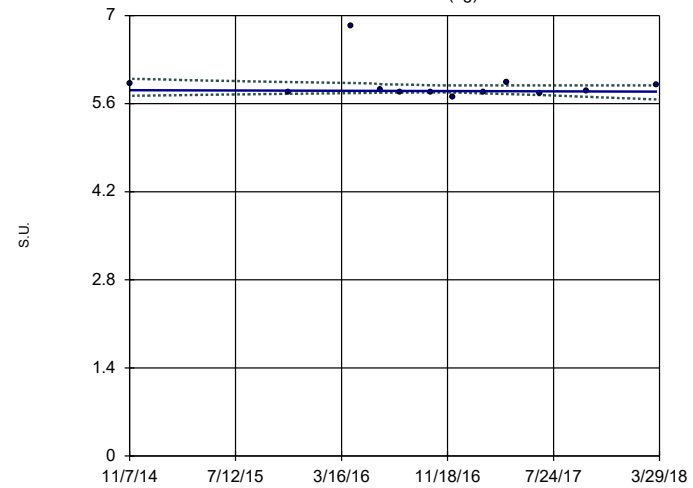


n = 12  
 Slope = -0.03687  
 units per year.  
 Mann-Kendall  
 statistic = -19  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

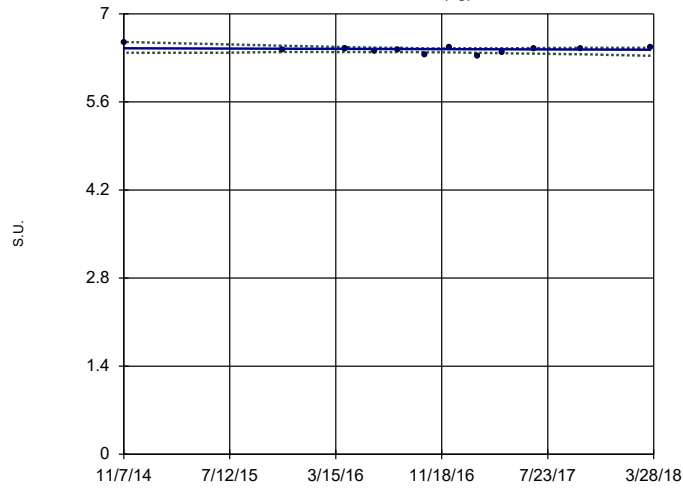
GWA-46 (bg)



n = 12  
 Slope = -0.006882  
 units per year.  
 Mann-Kendall  
 statistic = -5  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

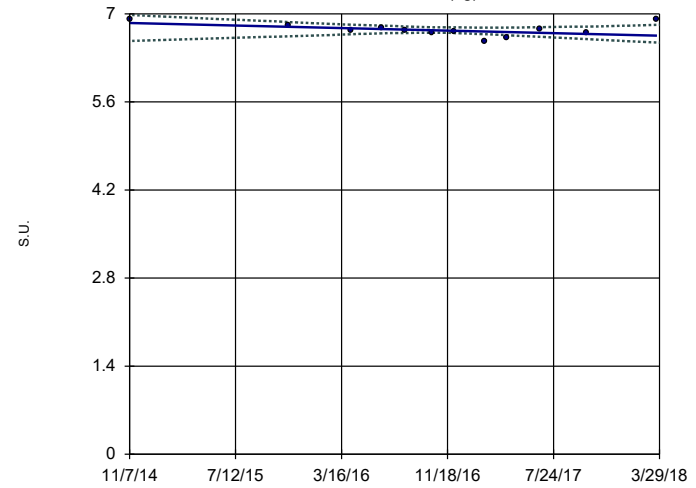
Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



n = 13  
 Slope = -0.00663  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -39  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

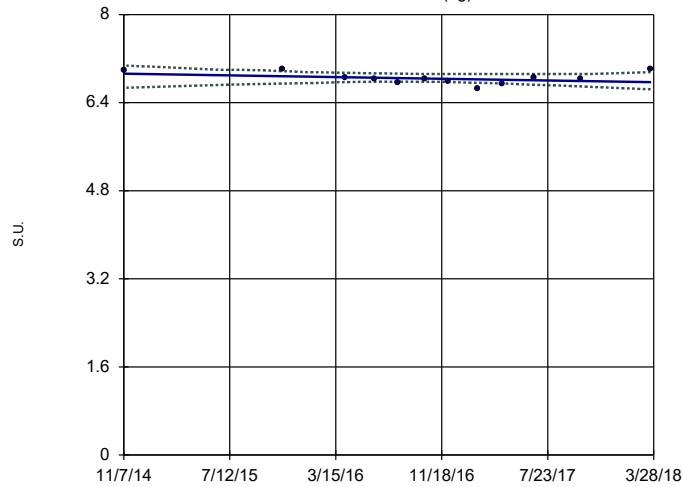
Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



n = 12  
 Slope = -0.05918  
 units per year.  
 Mann-Kendall  
 statistic = -21  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

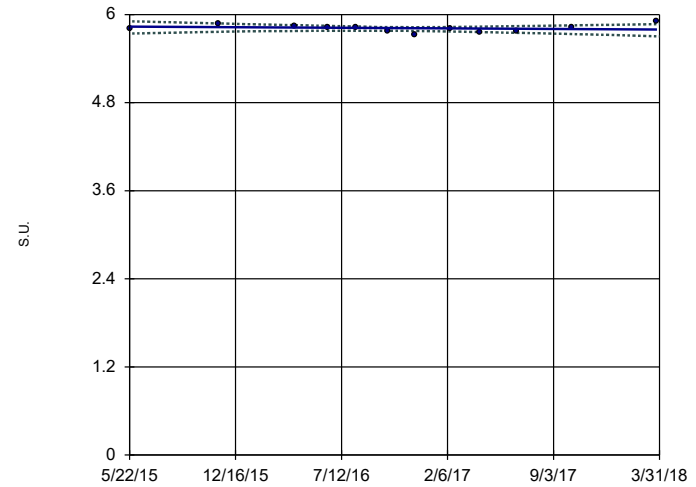
Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



n = 12  
 Slope = -0.04515  
 units per year.  
 Mann-Kendall  
 statistic = -11  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



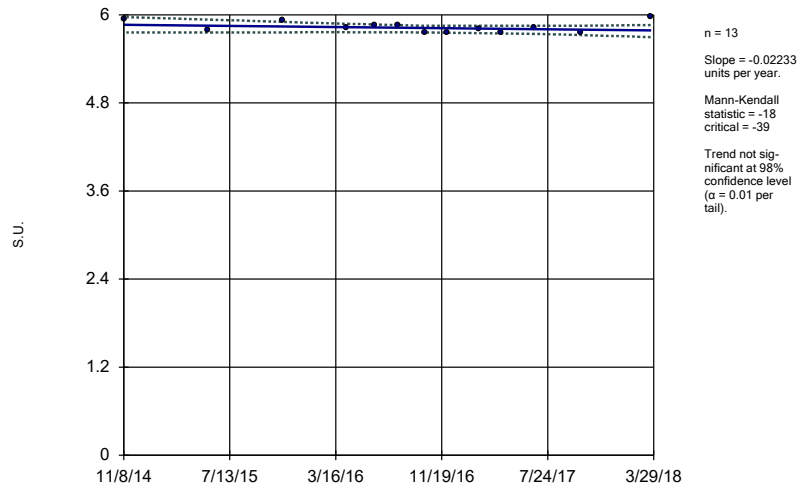
n = 12  
 Slope = -0.01386  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -35  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR



Sen's Slope and 95% Confidence Band

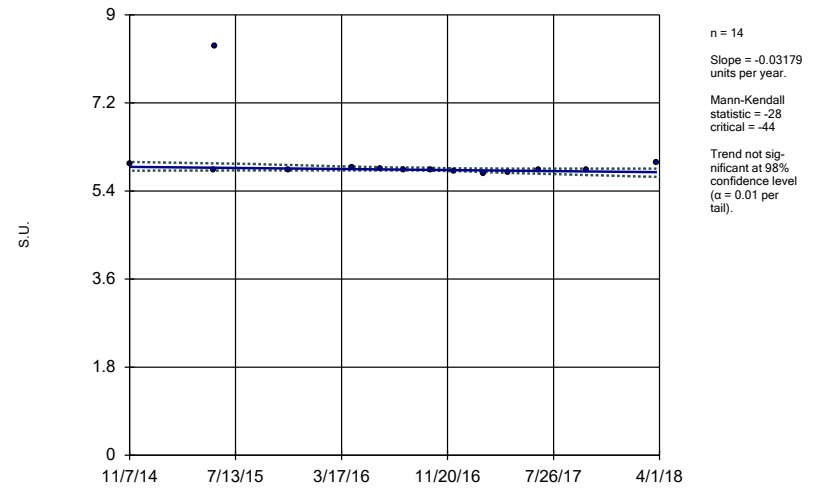
GWC-50



Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

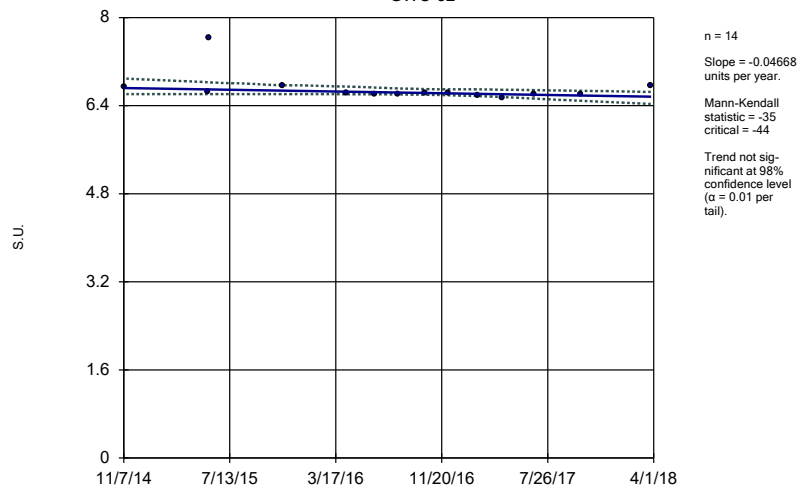
GWC-51



Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

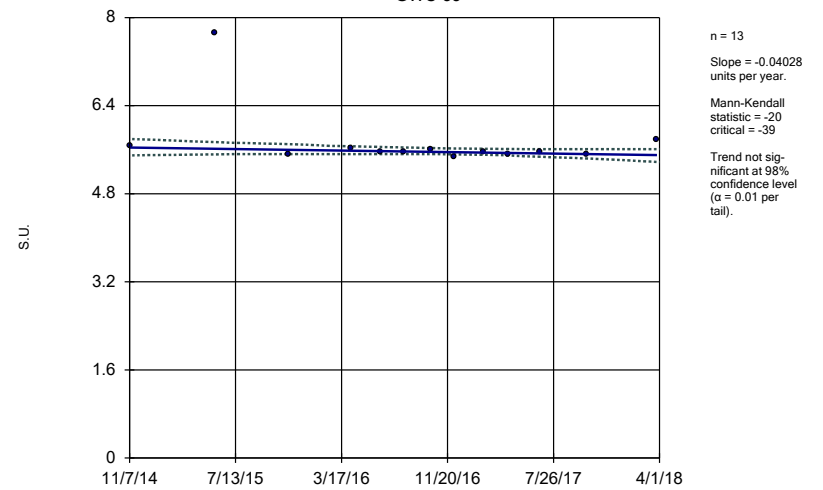
GWC-52



Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

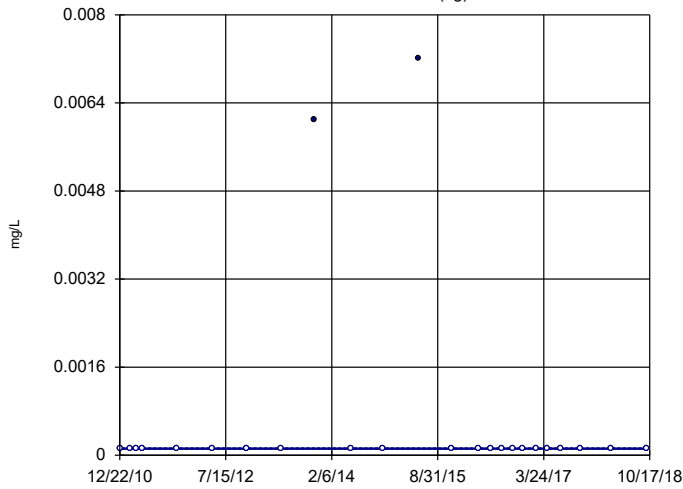
GWC-53



Constituent: pH Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-21 (bg)

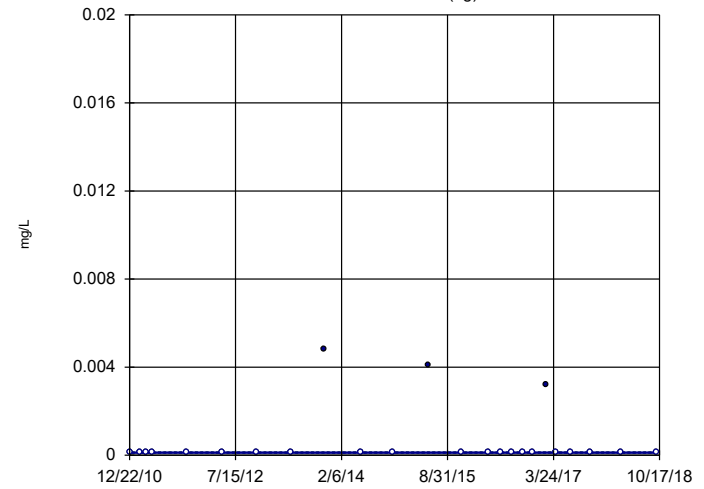


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -7  
critical = -95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-22 (bg)

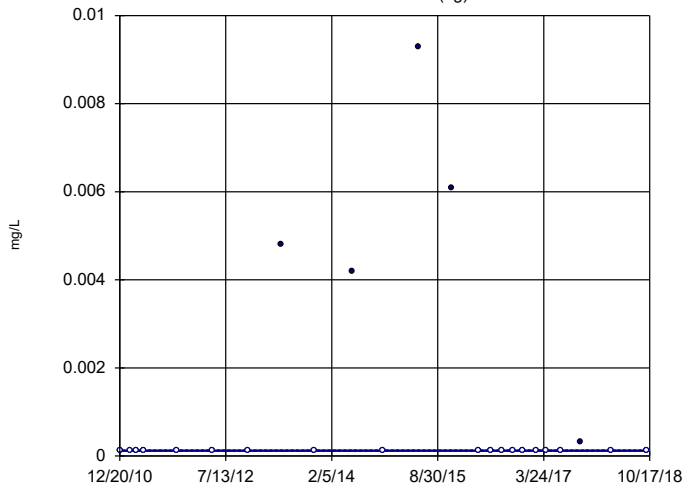


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 2  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-45 (bg)

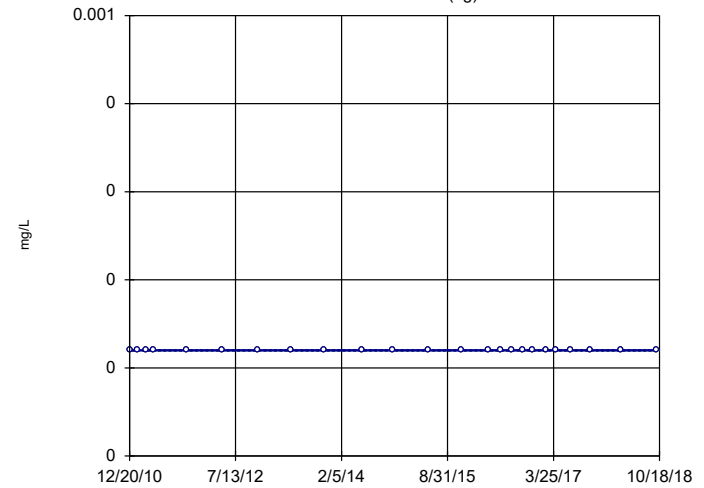


n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 3  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

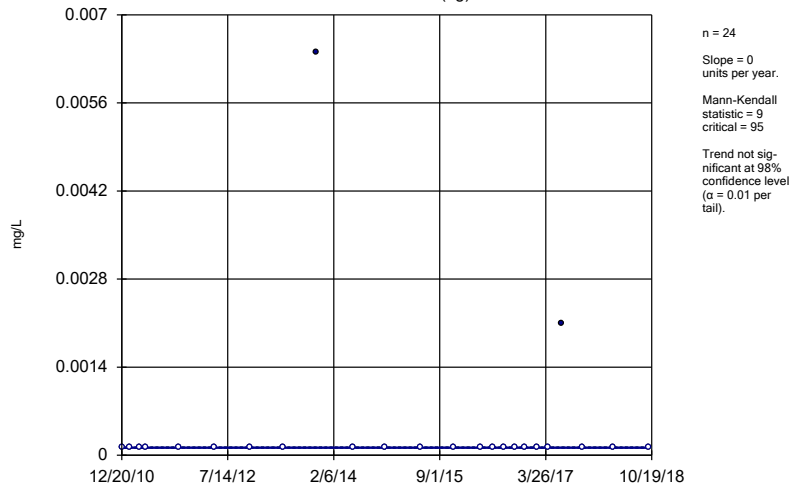
GWA-46 (bg)



n = 24  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 95  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

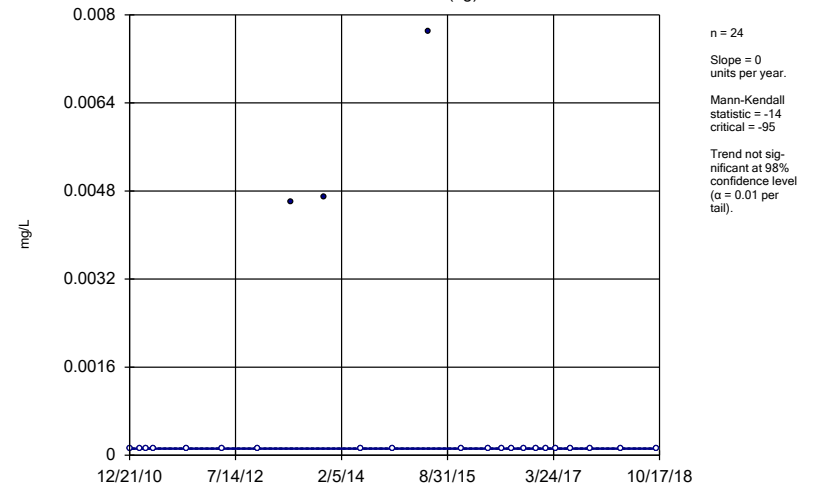
Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



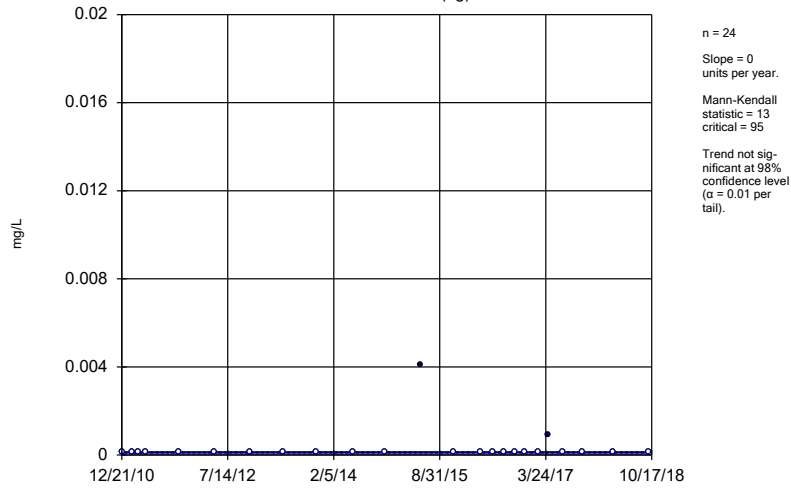
Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



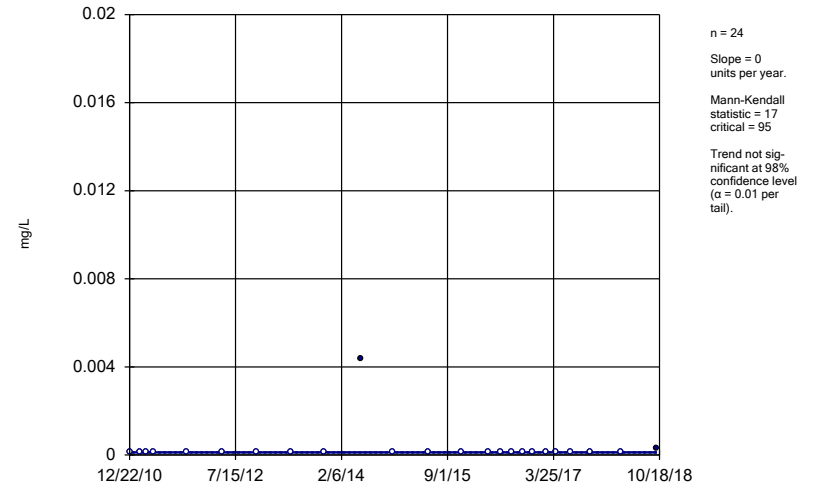
Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

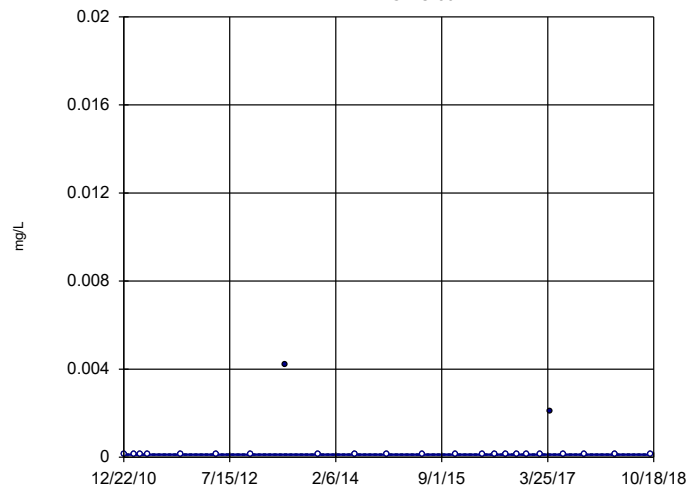
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-50

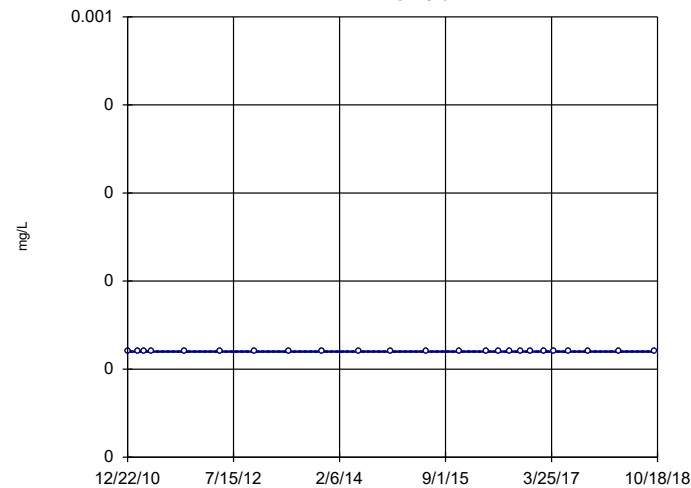


n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 5  
 critical = 95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-51

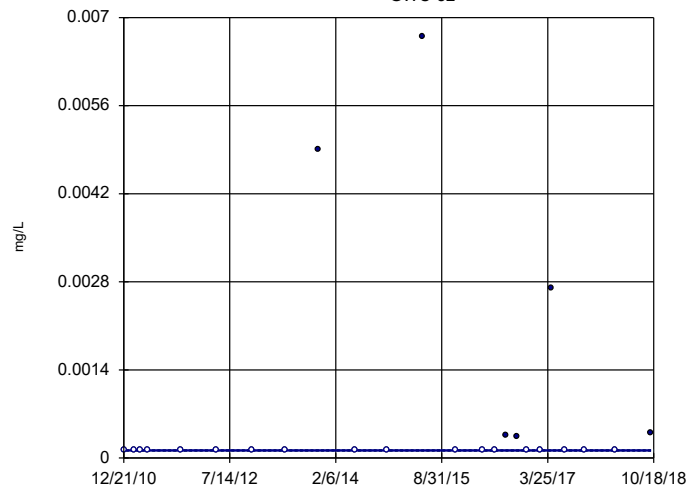


n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-52

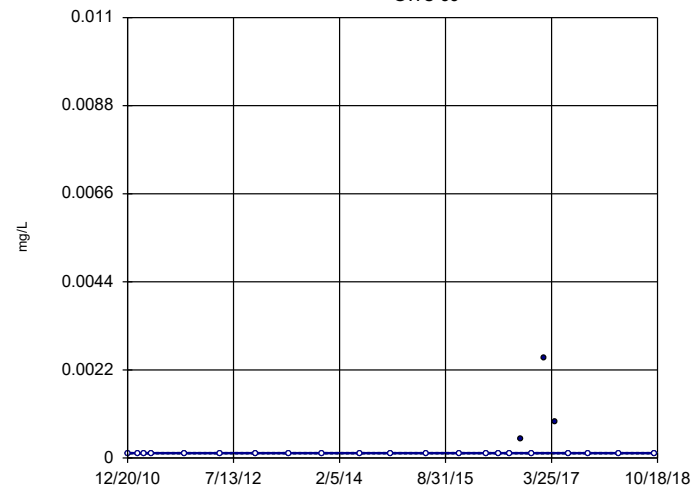


n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 41  
 critical = 95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-53

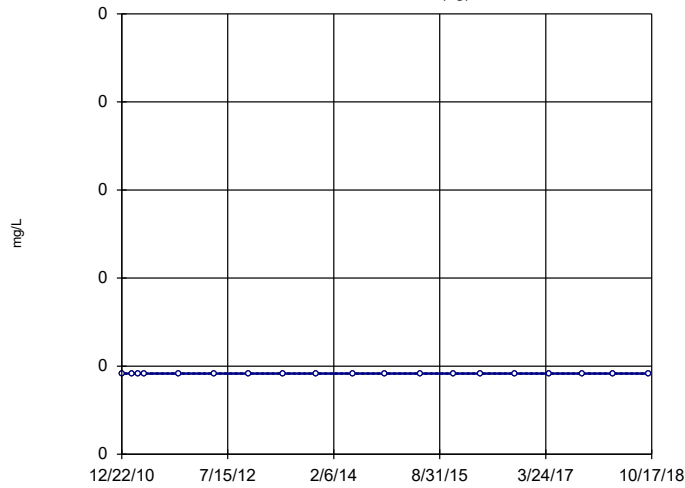


n = 24  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 38  
 critical = 95  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Selenium, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-21 (bg)

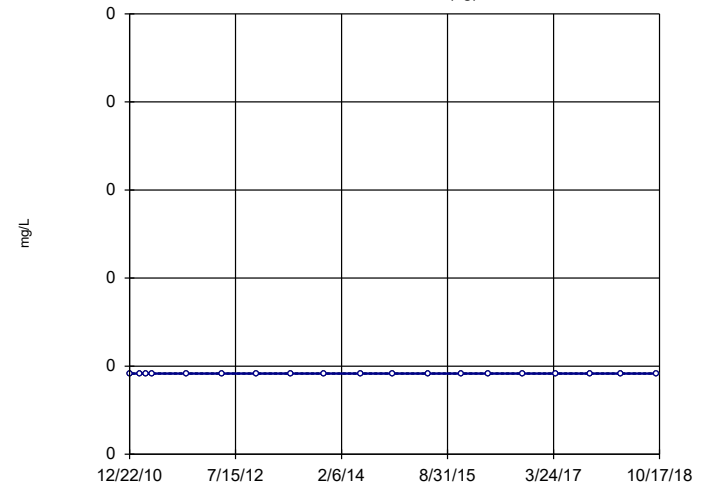


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-22 (bg)

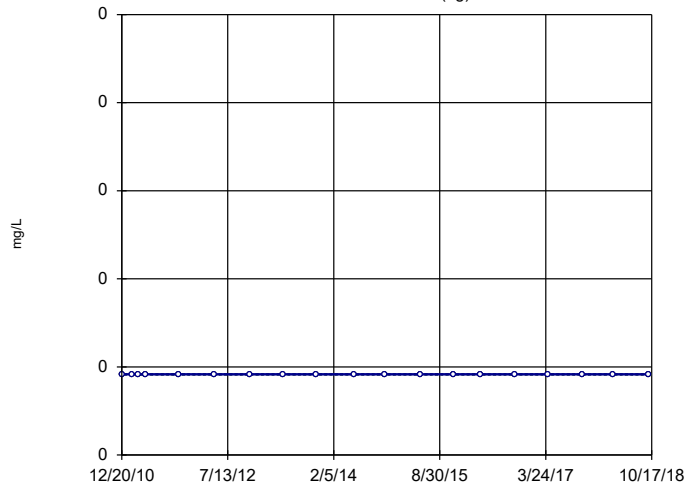


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-45 (bg)

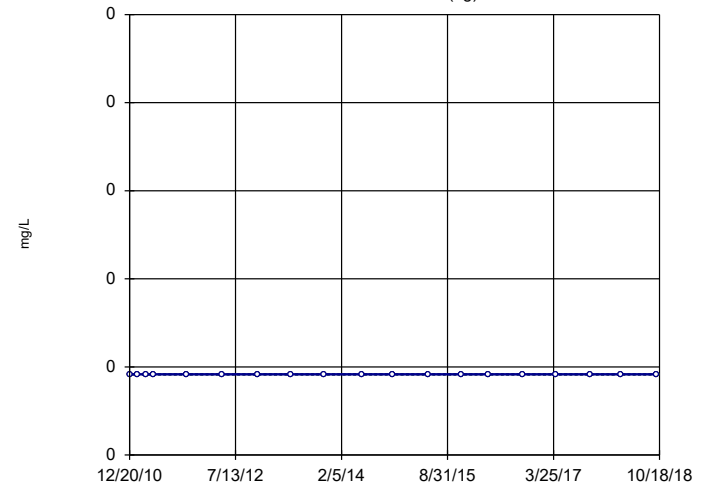


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

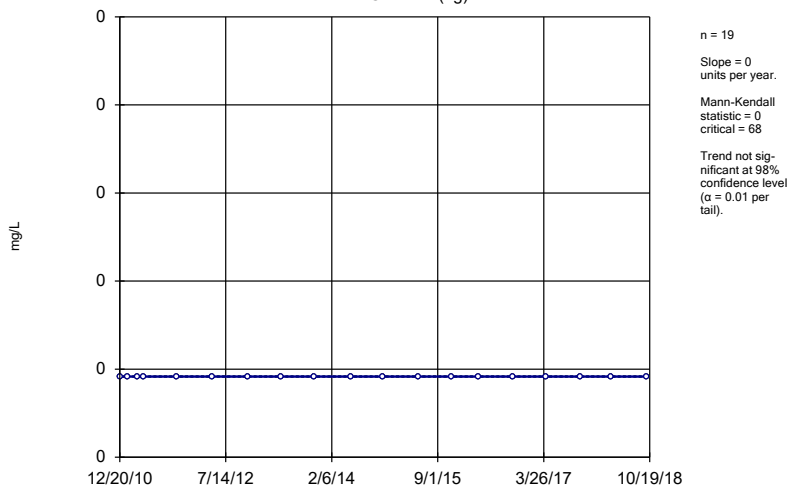
GWA-46 (bg)



n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

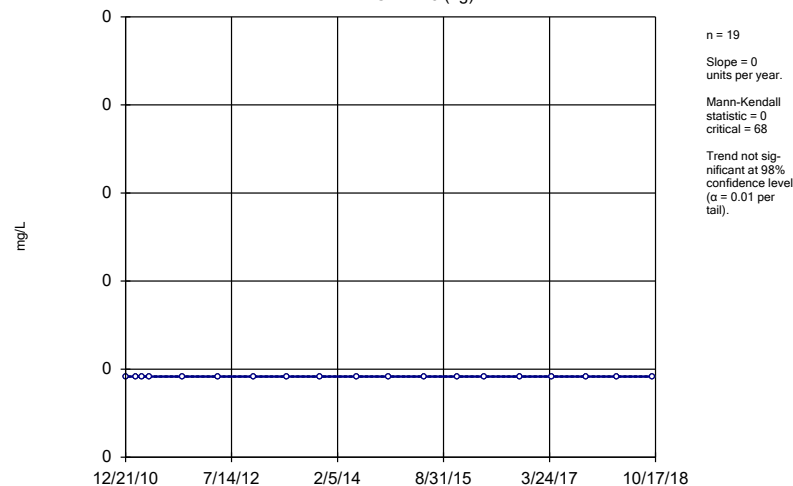
Constituent: Silver, Total Analysis Run 4/26/2019 2:53 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



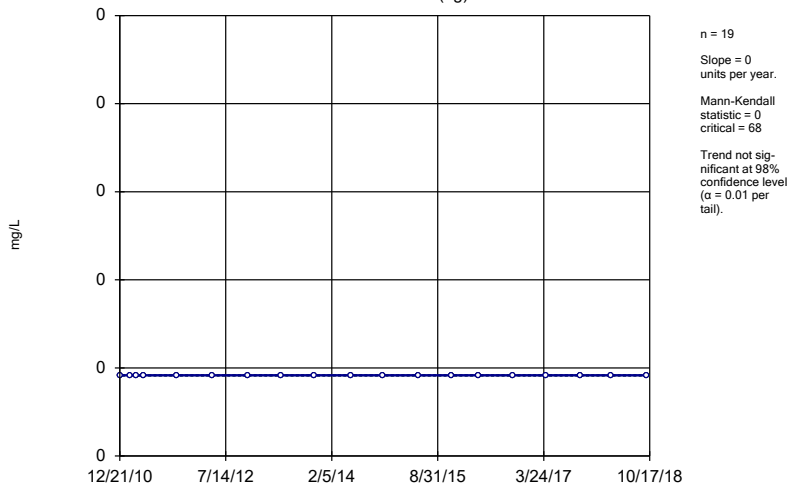
Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



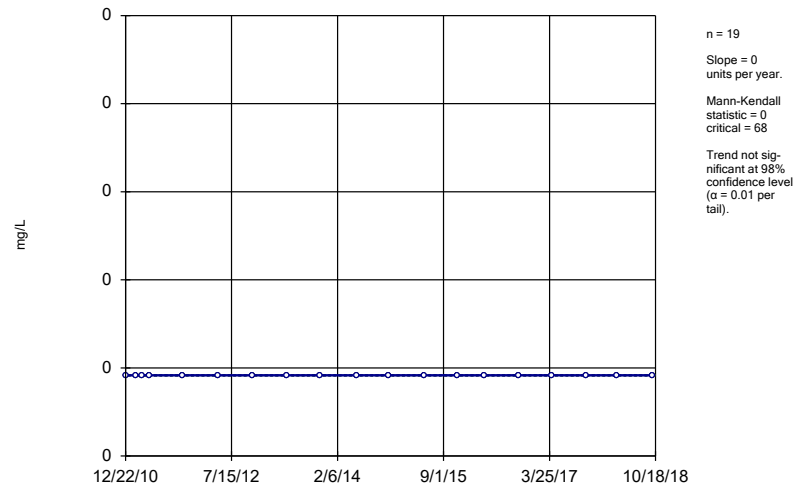
Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

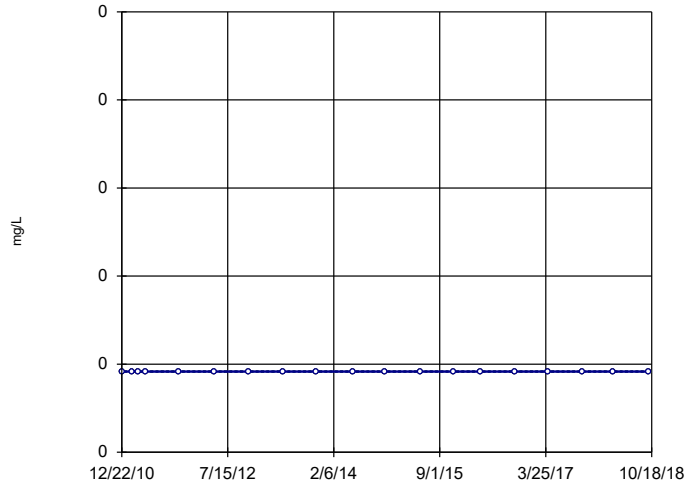
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-50

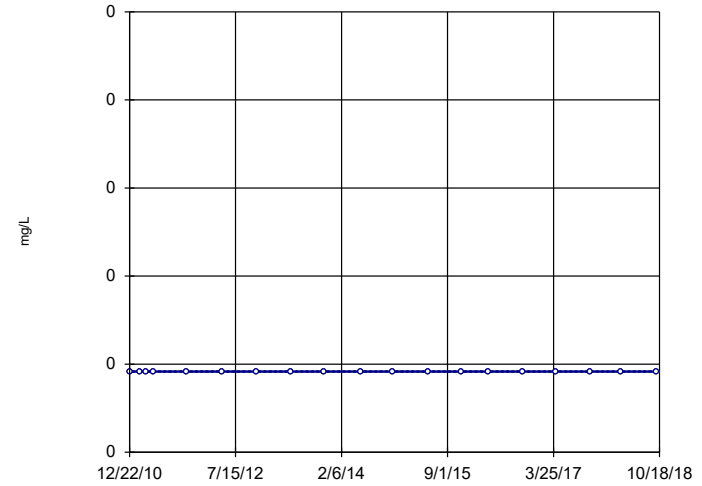


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-51

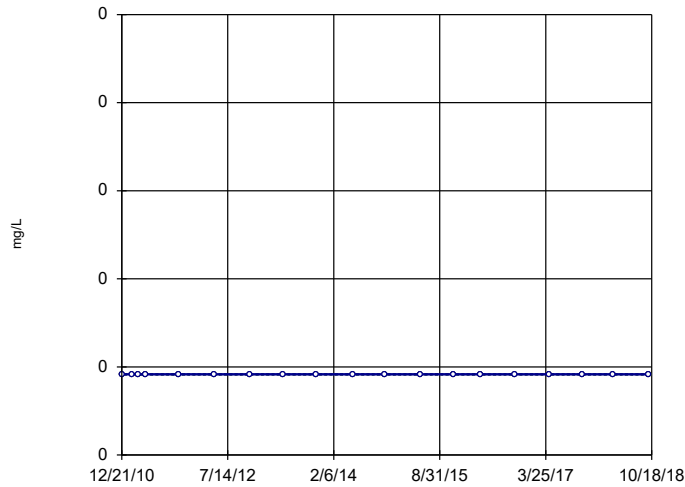


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-52

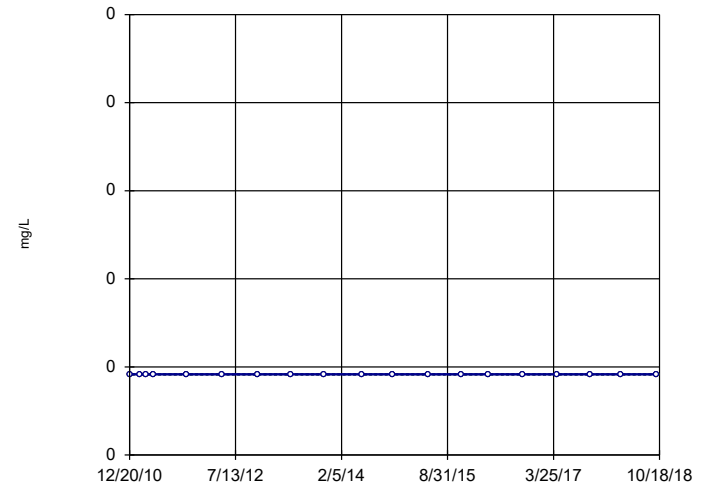


n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

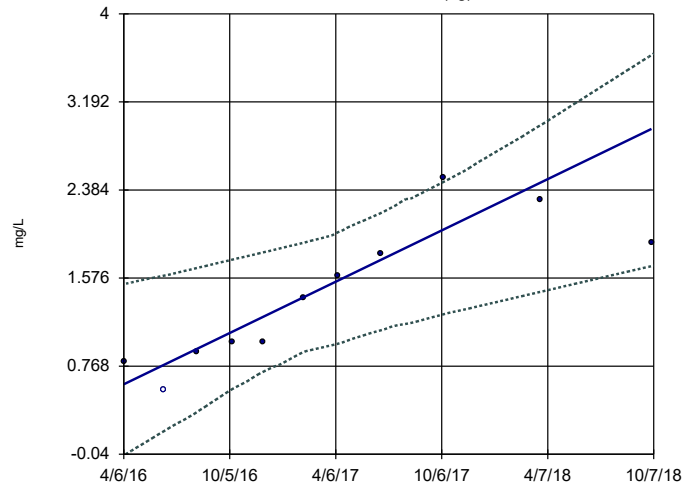
GWC-53



n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 0  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

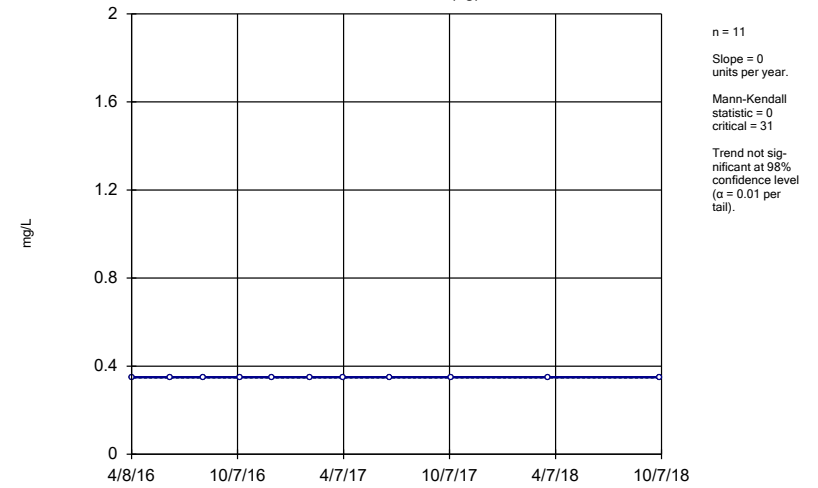
Constituent: Silver, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



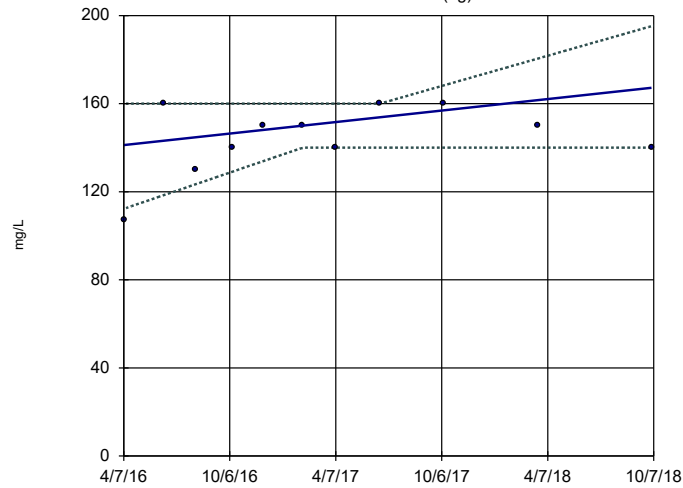
Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



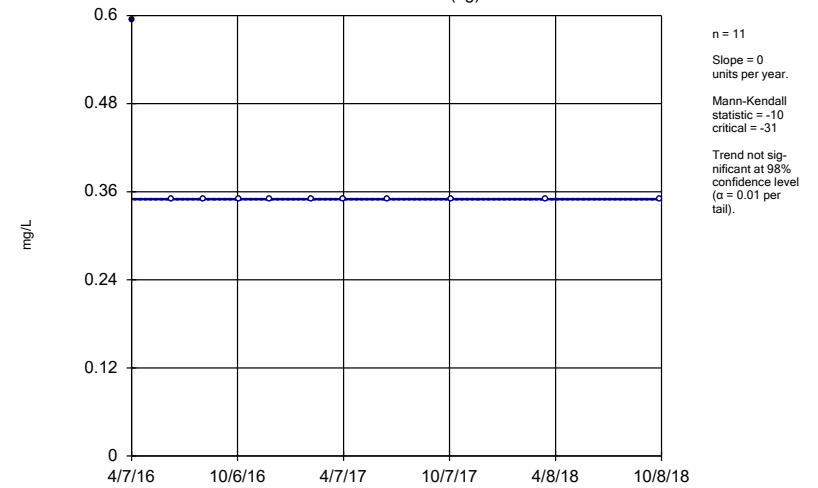
Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

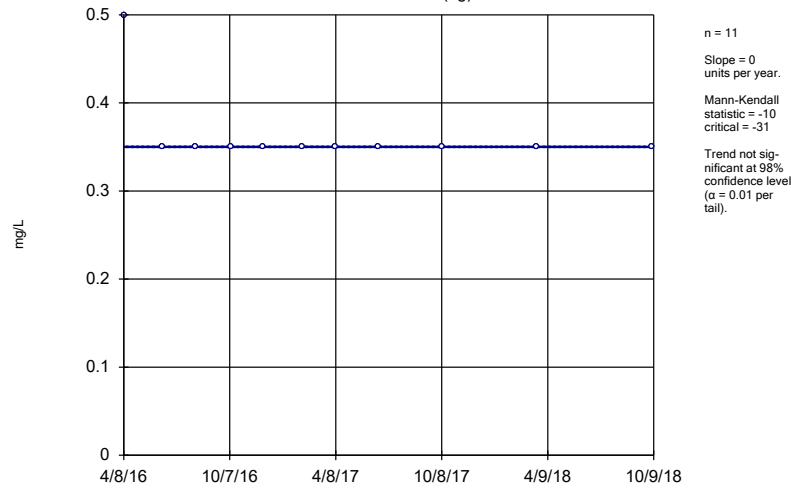
Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

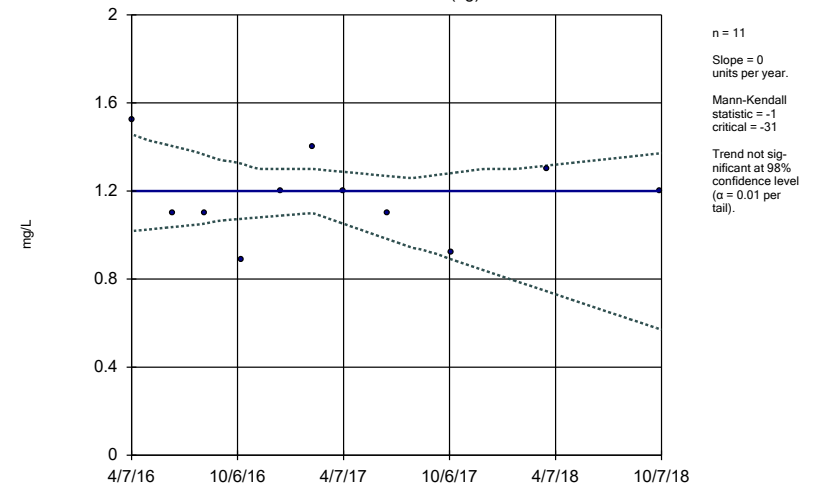


Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



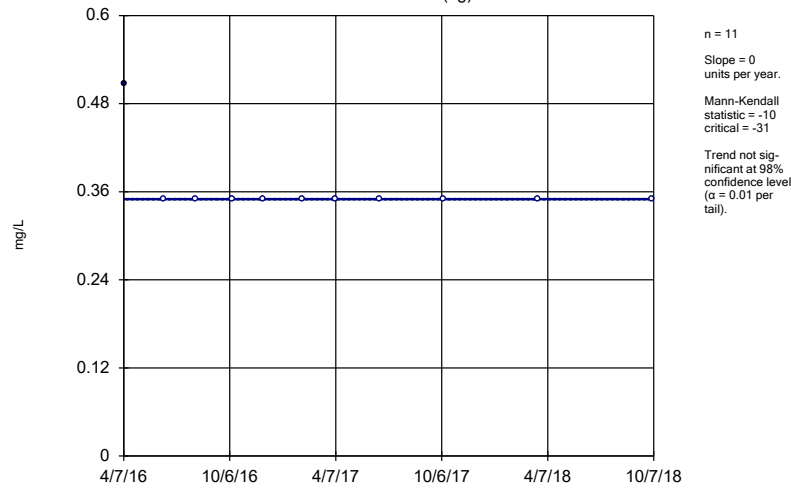
Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



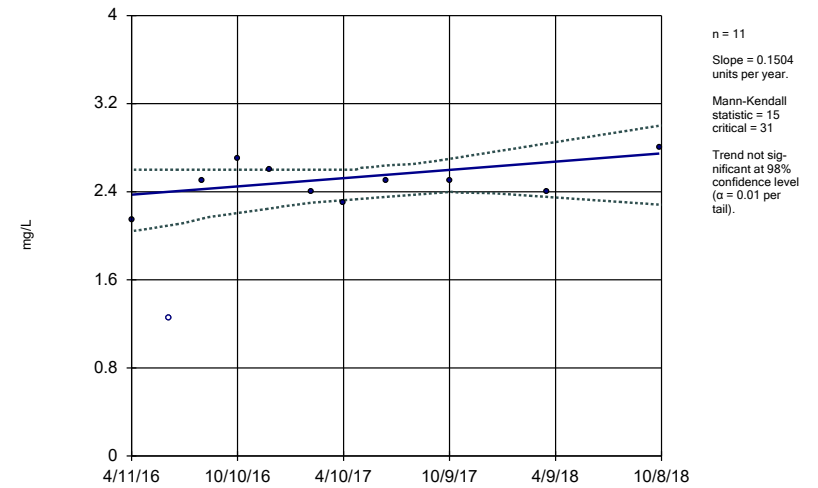
Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

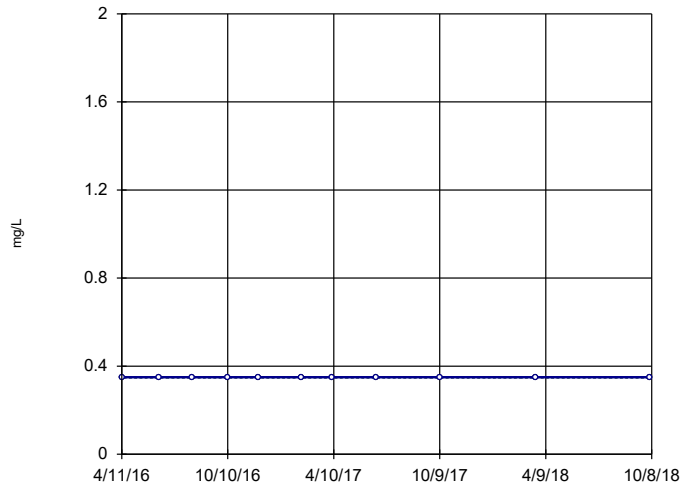
Sen's Slope and 95% Confidence Band  
GWC-29



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

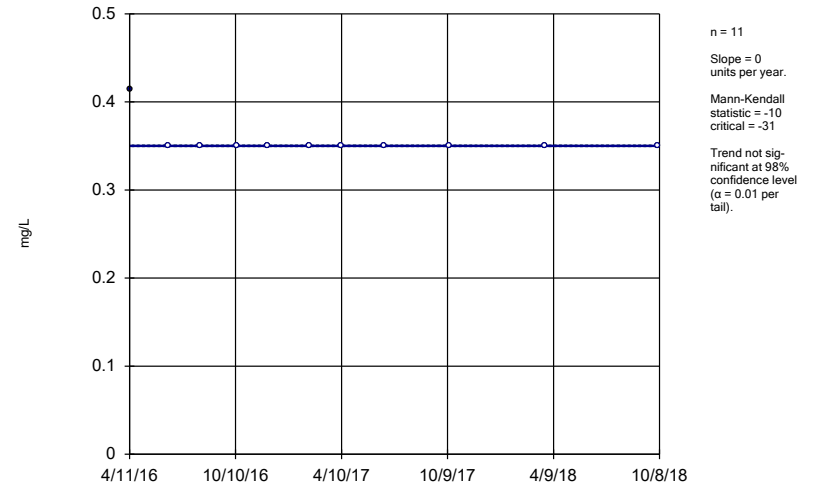
GWC-50



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

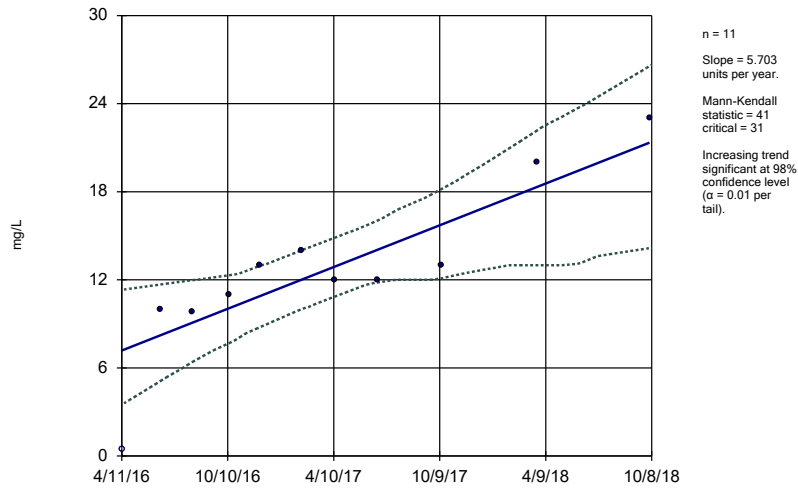
GWC-51



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

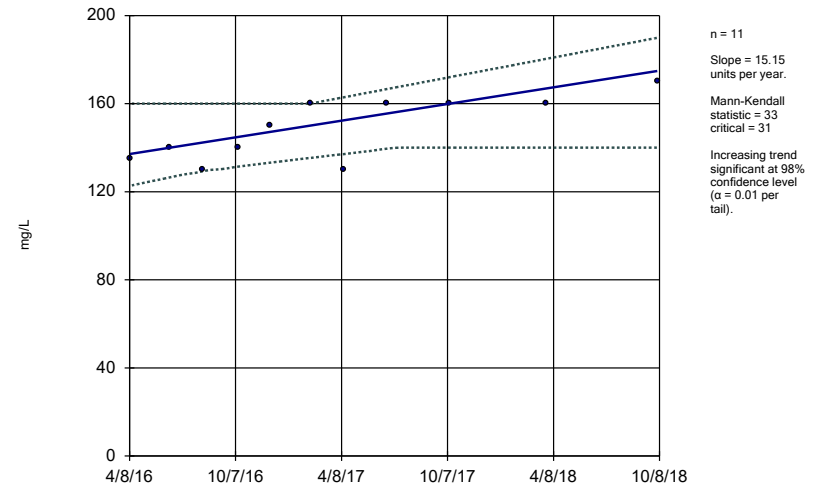
GWC-52



Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

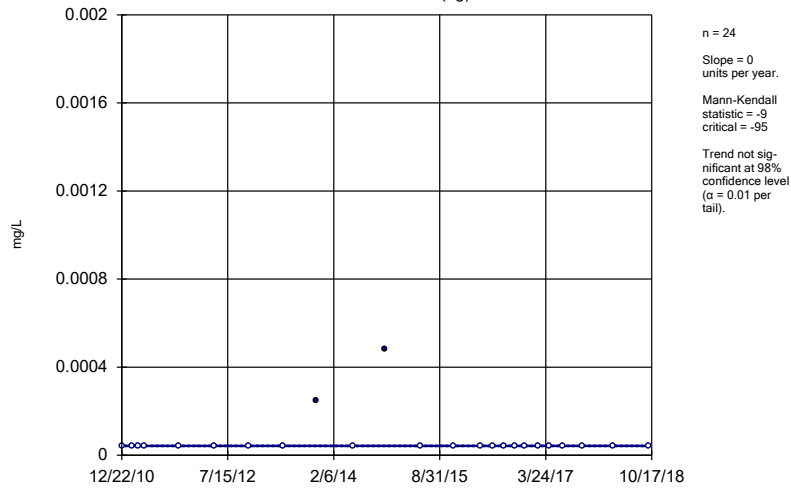
### Sen's Slope and 95% Confidence Band

GWC-53



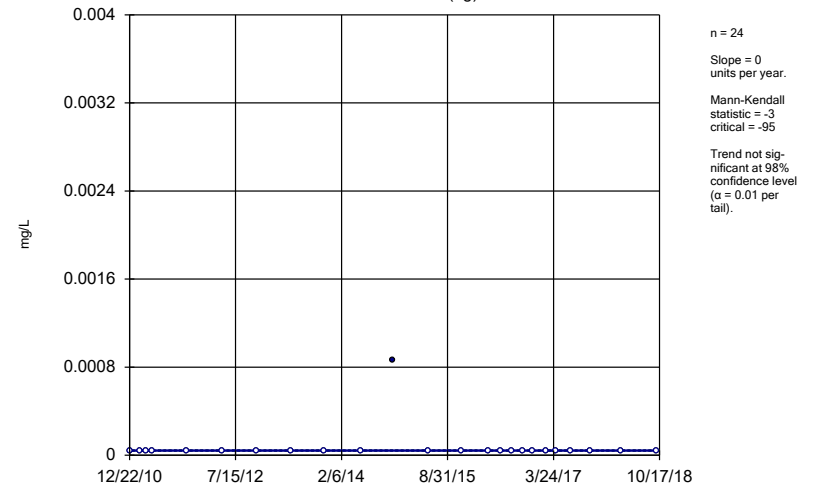
Constituent: Sulfate Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



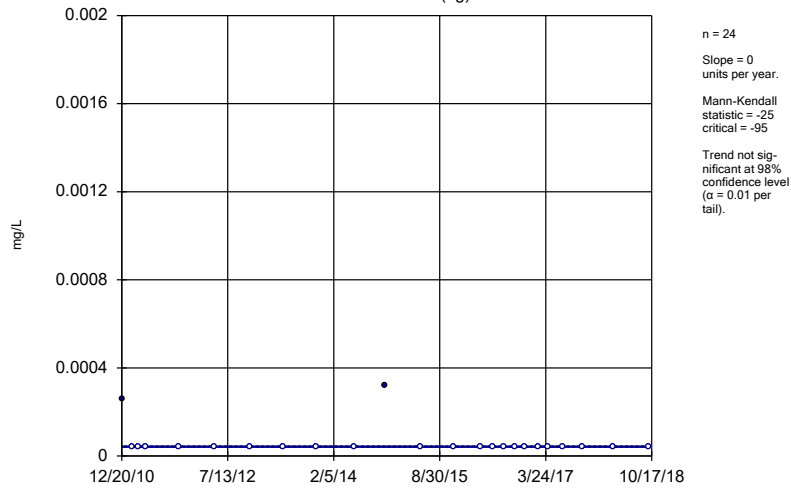
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



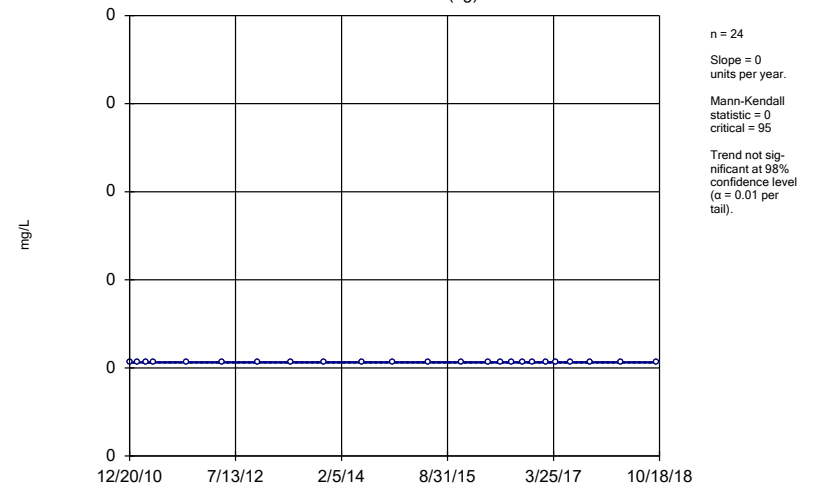
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



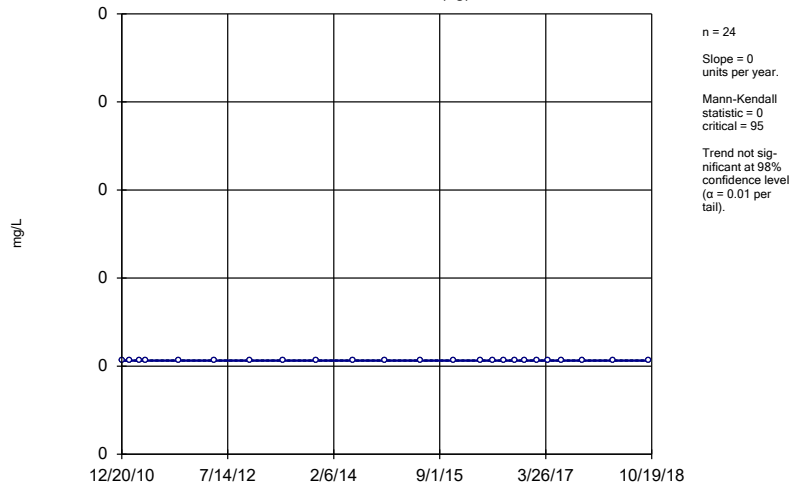
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



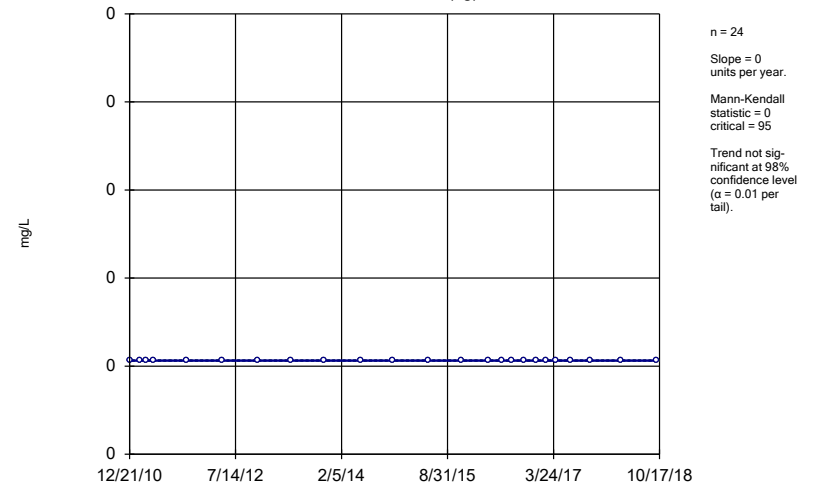
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



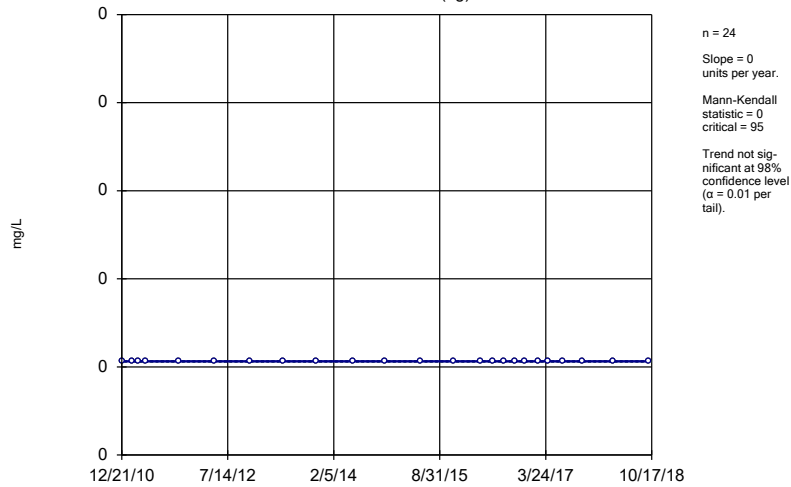
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



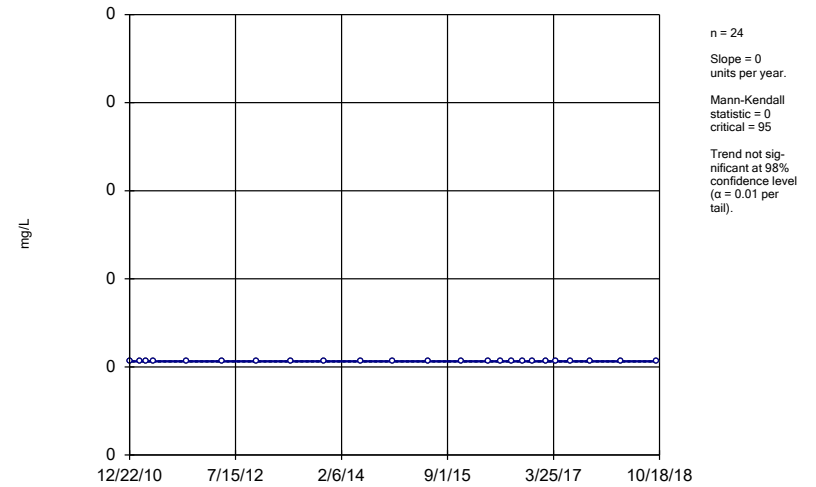
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



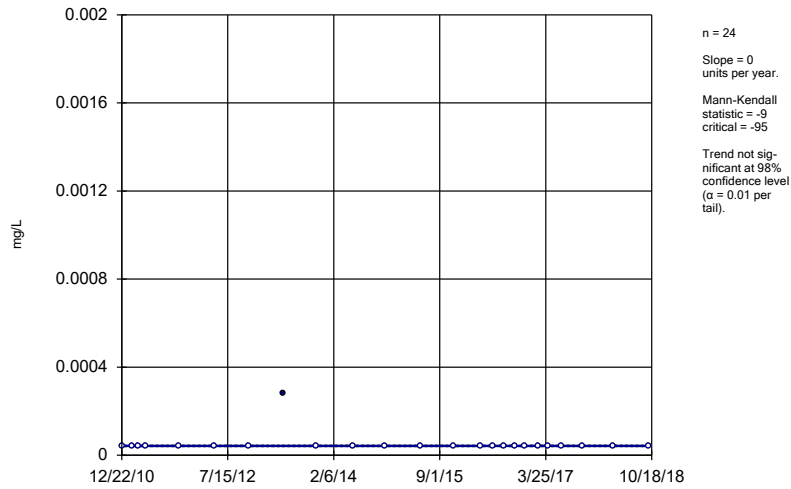
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-29



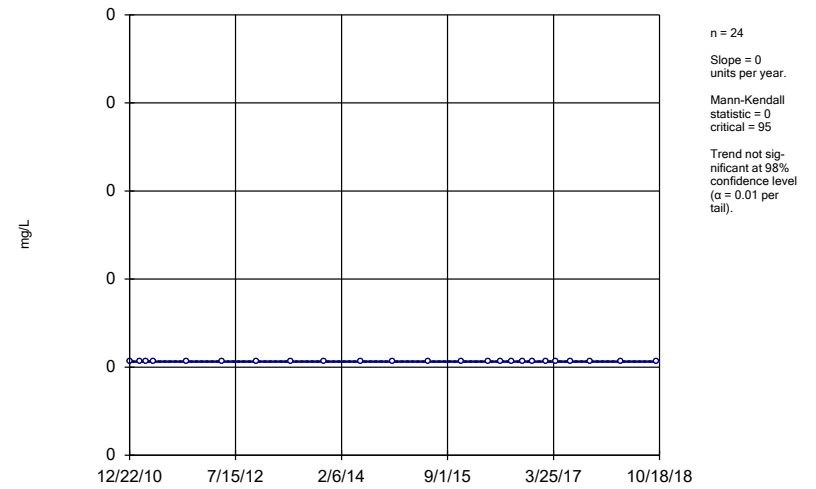
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-50



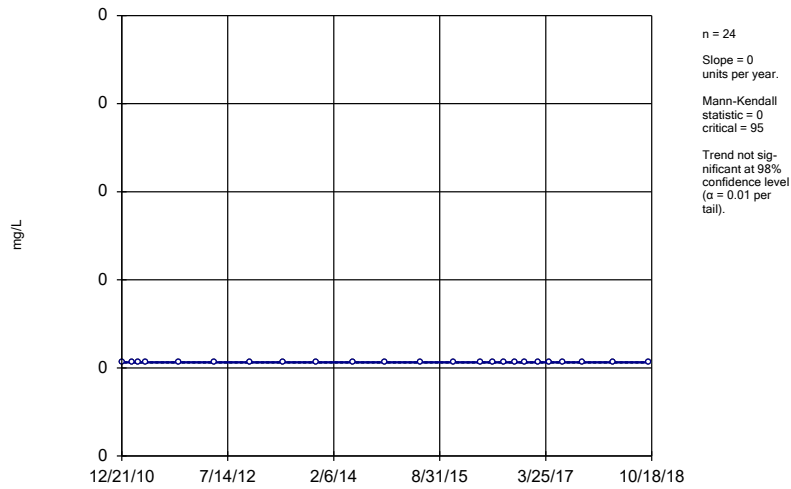
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-51



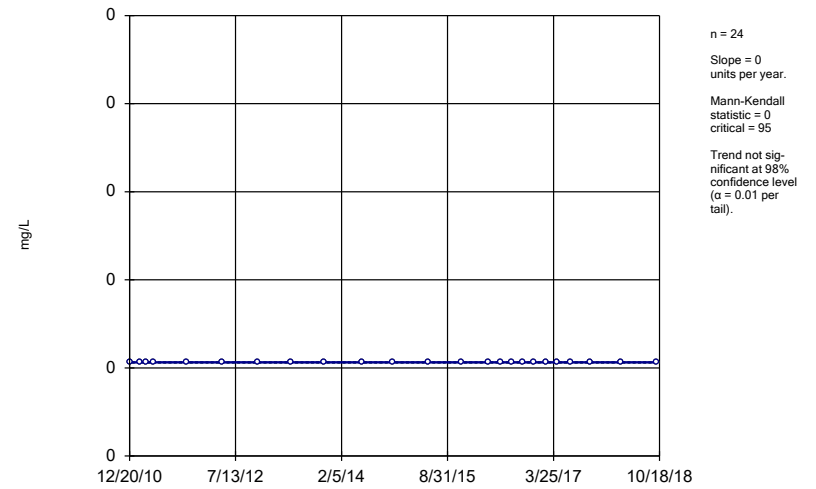
Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWC-52



Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

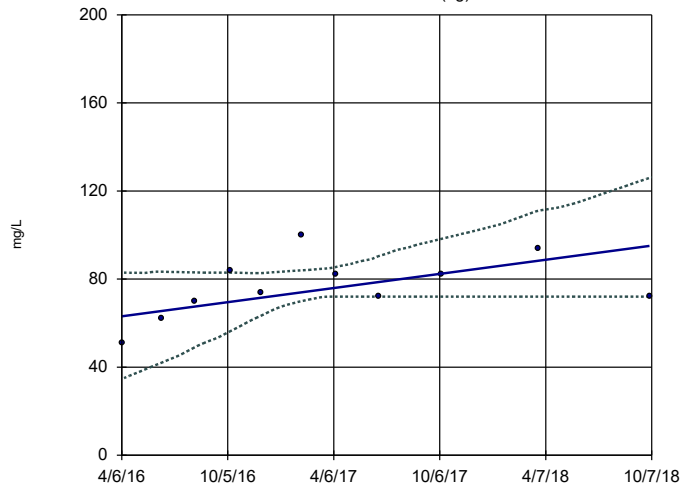
Sen's Slope and 95% Confidence Band  
GWC-53



Constituent: Thallium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-21 (bg)

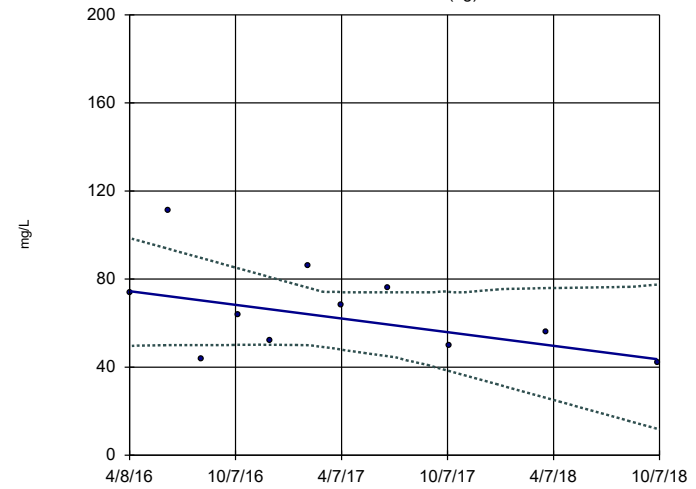


n = 11  
 Slope = 12.81  
 units per year.  
 Mann-Kendall  
 statistic = 21  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-22 (bg)

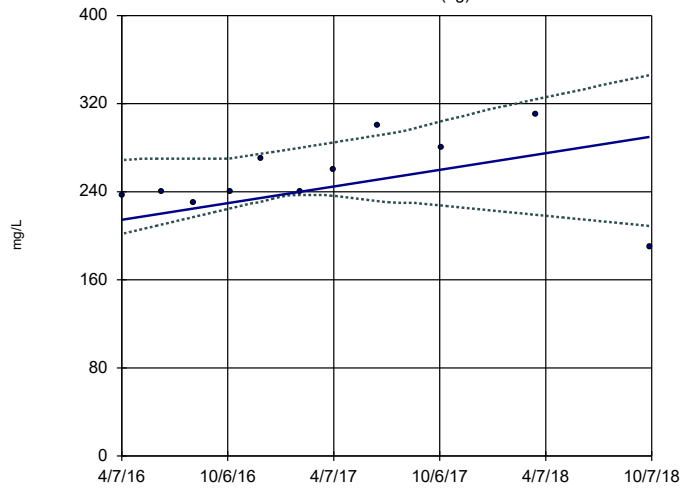


n = 11  
 Slope = -12.41  
 units per year.  
 Mann-Kendall  
 statistic = -17  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWA-45 (bg)



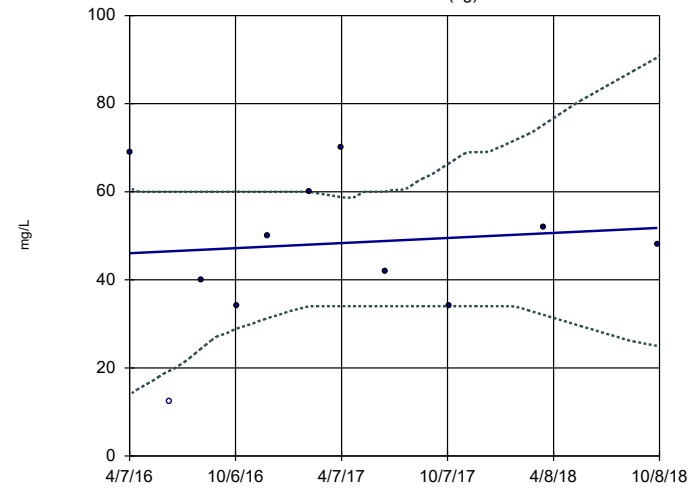
n = 11  
 Slope = 30.23  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GWA-46 (bg)

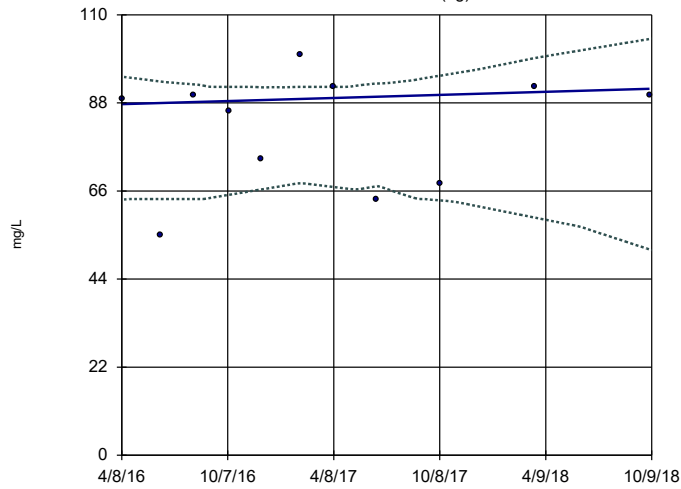


n = 11  
 Slope = 2.296  
 units per year.  
 Mann-Kendall  
 statistic = 6  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 ( $\alpha = 0.01$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-47 (bg)

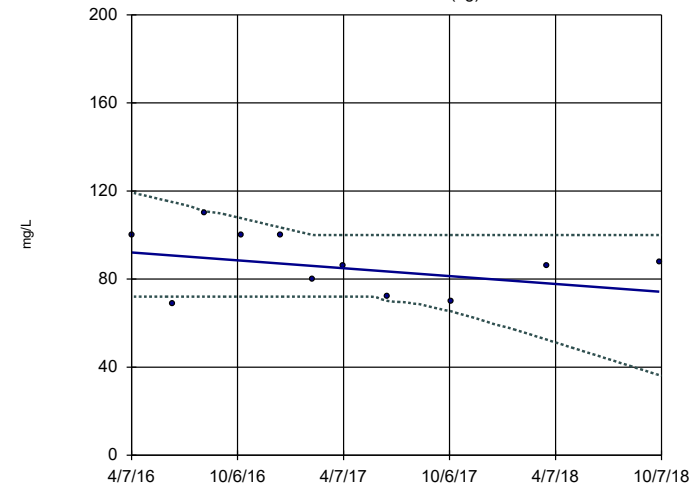


n = 11  
 Slope = 1.536  
 units per year.  
 Mann-Kendall  
 statistic = 7  
 critical = 31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-48 (bg)

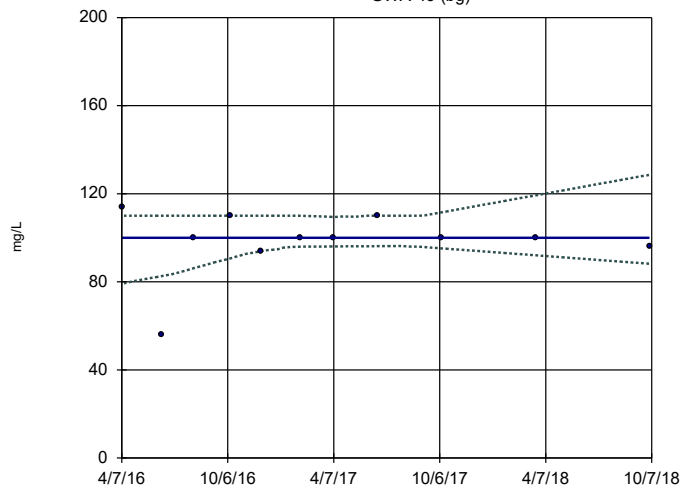


n = 11  
 Slope = -7.147  
 units per year.  
 Mann-Kendall  
 statistic = -13  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWA-49 (bg)

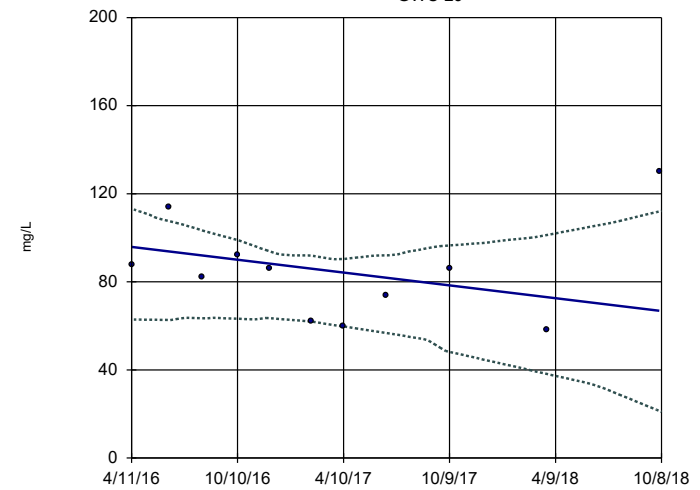


n = 11  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -6  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-29

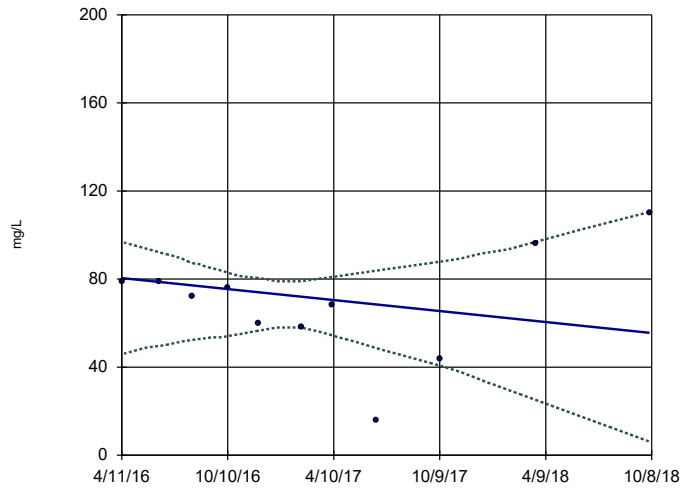


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 Slope = -11.67  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -31  
 Trend not sig-  
 nificant at 98%  
 confidence level  
 (α = 0.01 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-50

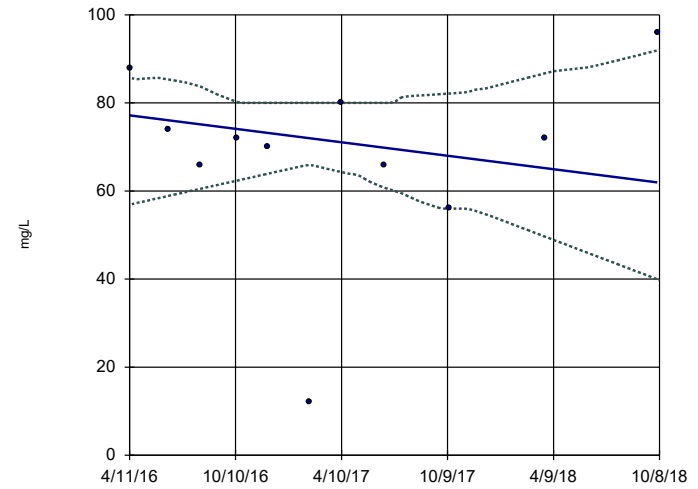


n = 11  
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 Mann-Kendall statistic = -8  
 critical = -31  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
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Sen's Slope and 95% Confidence Band

GWC-51

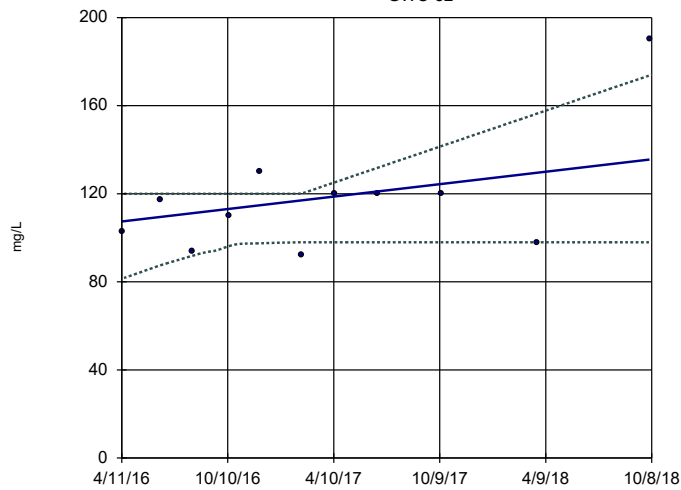


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 Slope = -6.134 units per year.  
 Mann-Kendall statistic = -5  
 critical = -31  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLS  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-52

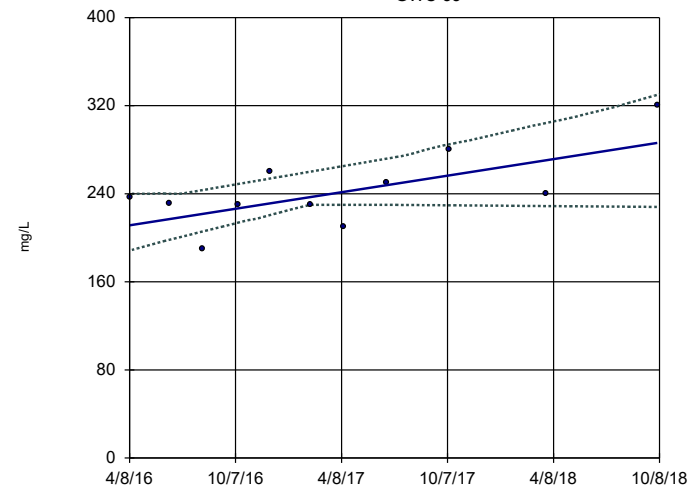


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 Mann-Kendall statistic = 16  
 critical = 31  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

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Sen's Slope and 95% Confidence Band

GWC-53

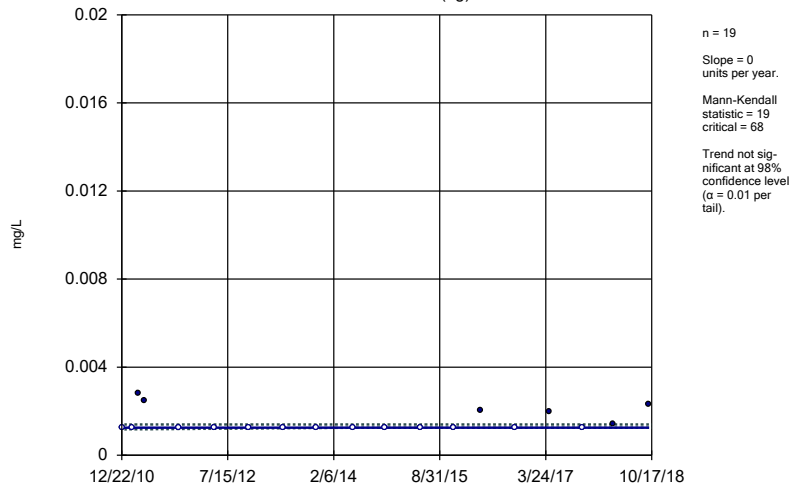


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 Slope = 30.04 units per year.  
 Mann-Kendall statistic = 20  
 critical = 31  
 Trend not significant at 98% confidence level (α = 0.01 per tail).

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 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

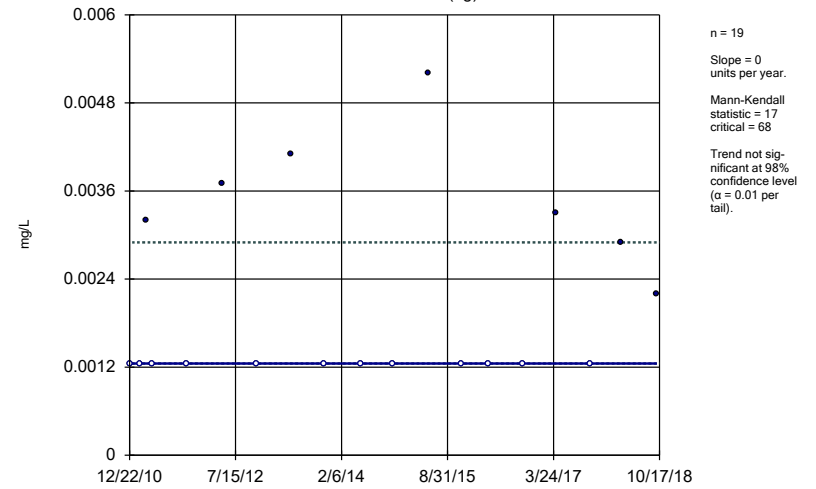


Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



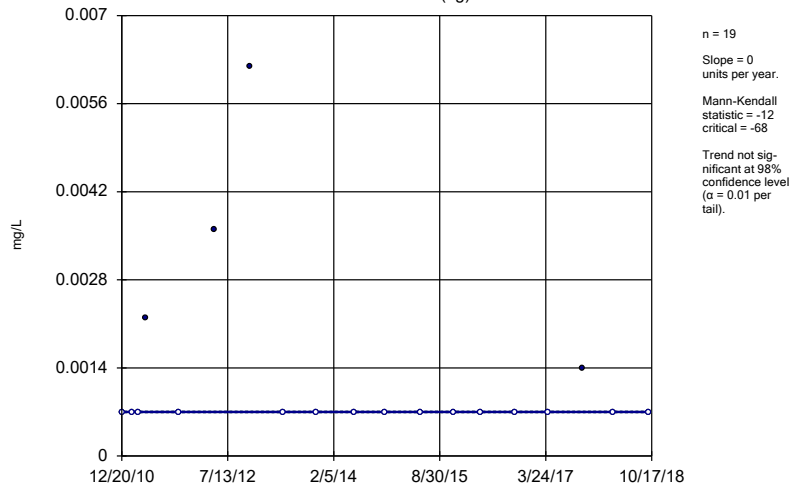
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Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



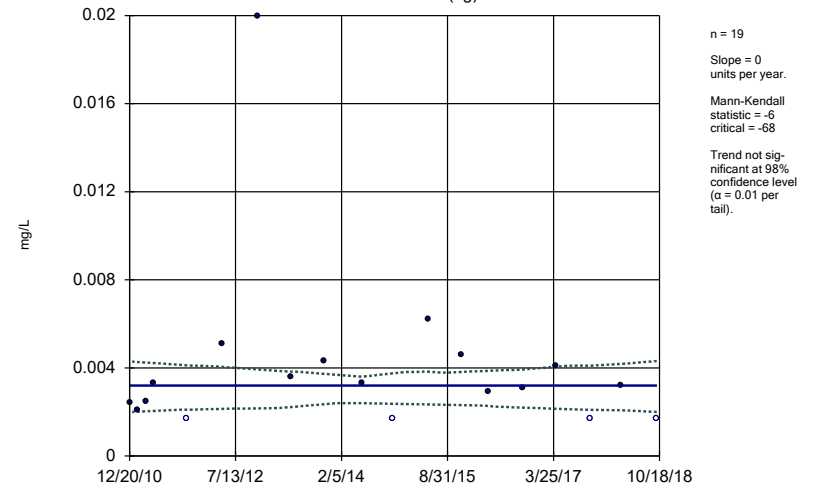
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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



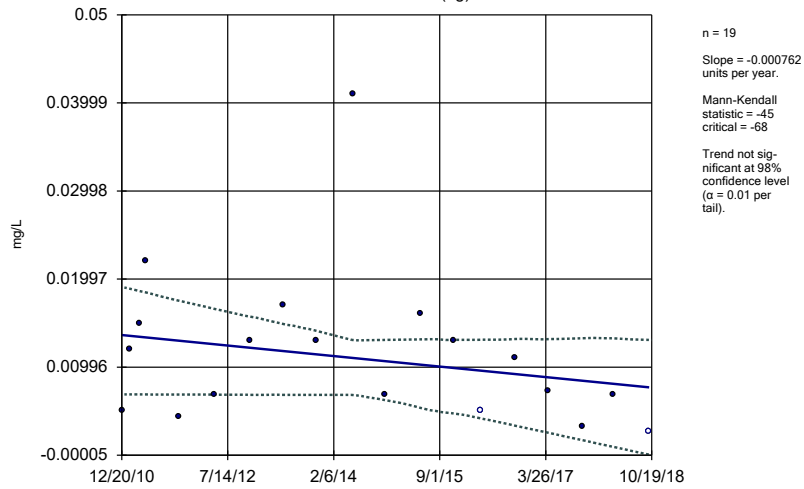
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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



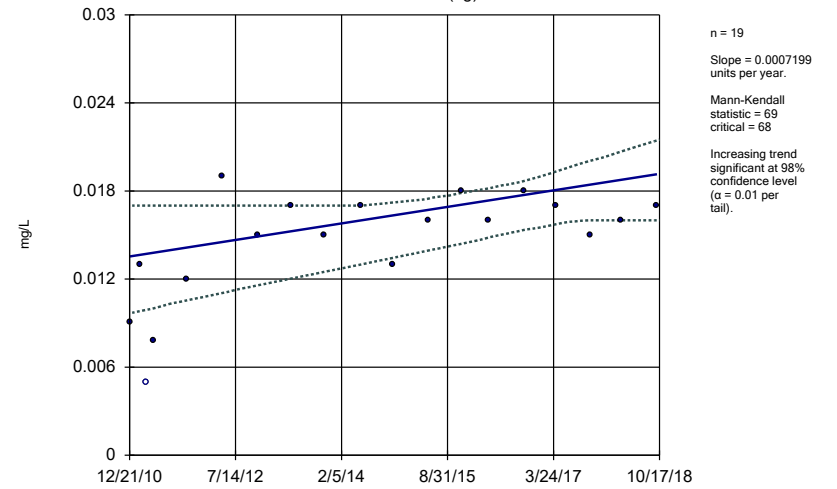
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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
 GWA-47 (bg)



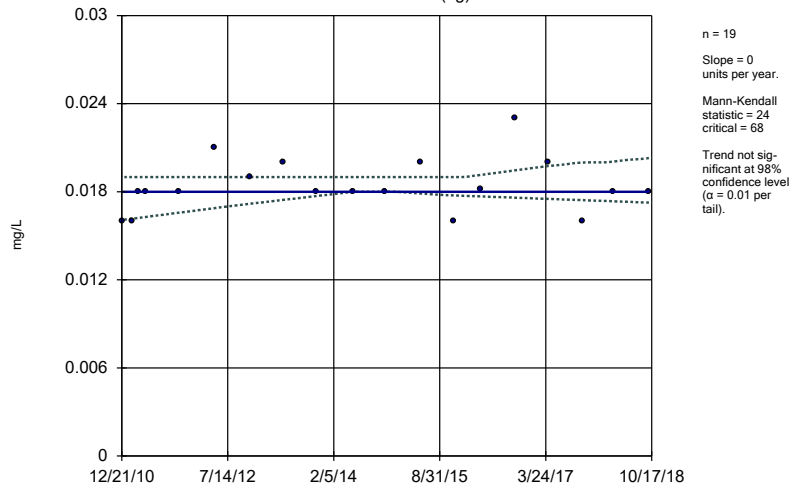
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 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
 GWA-48 (bg)



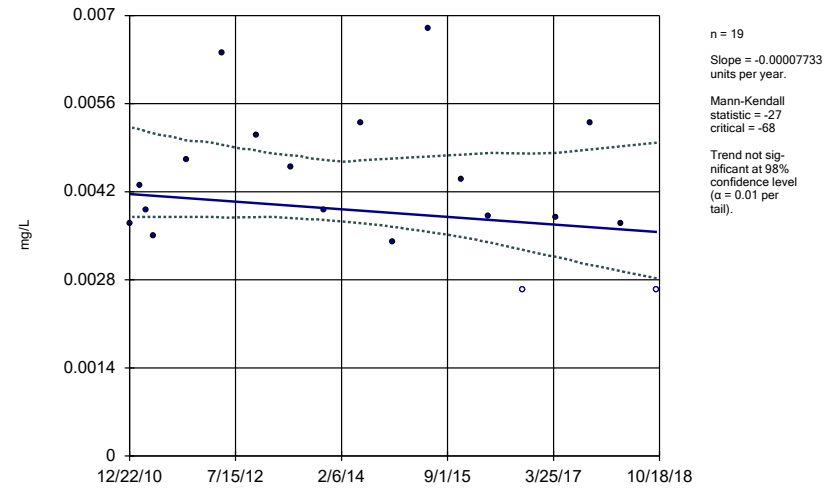
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Sen's Slope and 95% Confidence Band  
 GWA-49 (bg)



Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

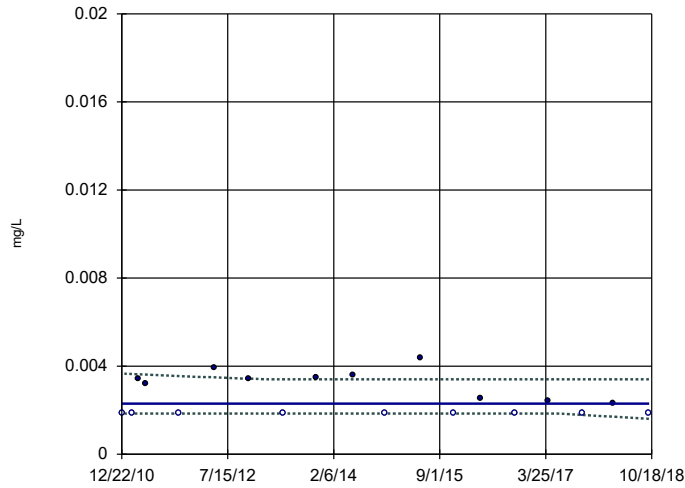
Sen's Slope and 95% Confidence Band  
 GWC-29



Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
 Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-50

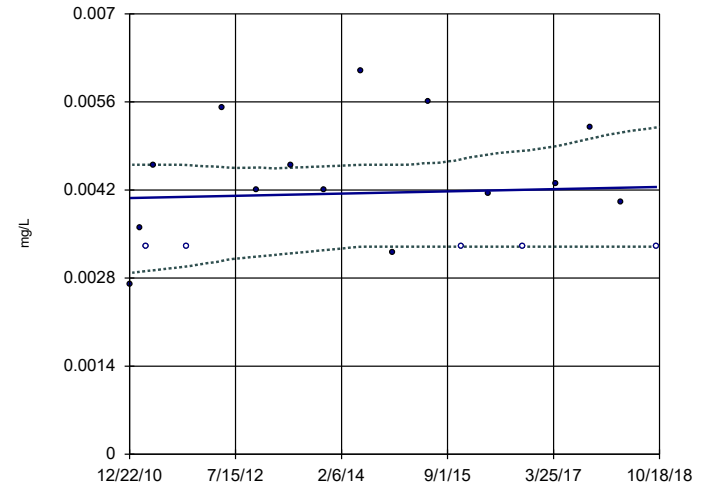


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Slope = 0  
units per year.  
Mann-Kendall  
statistic = -14  
critical = -68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-51

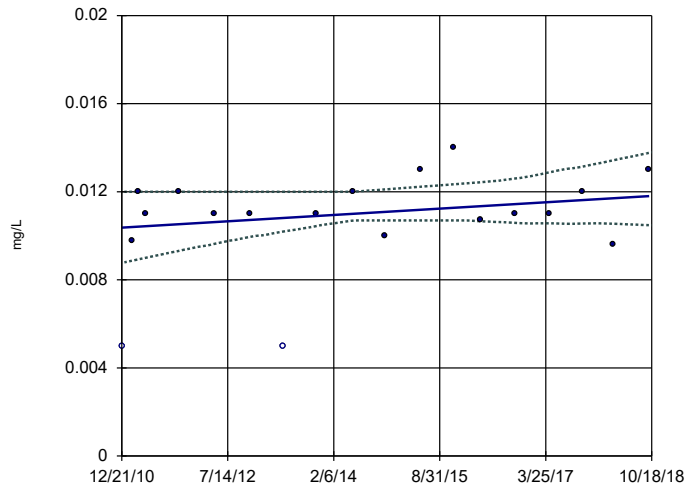


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Slope = 0.00002261  
units per year.  
Mann-Kendall  
statistic = 13  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

GWC-52

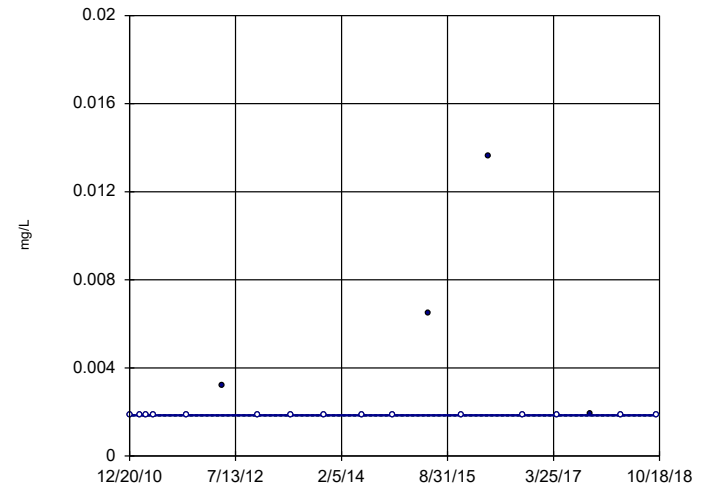


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units per year.  
Mann-Kendall  
statistic = 34  
critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band

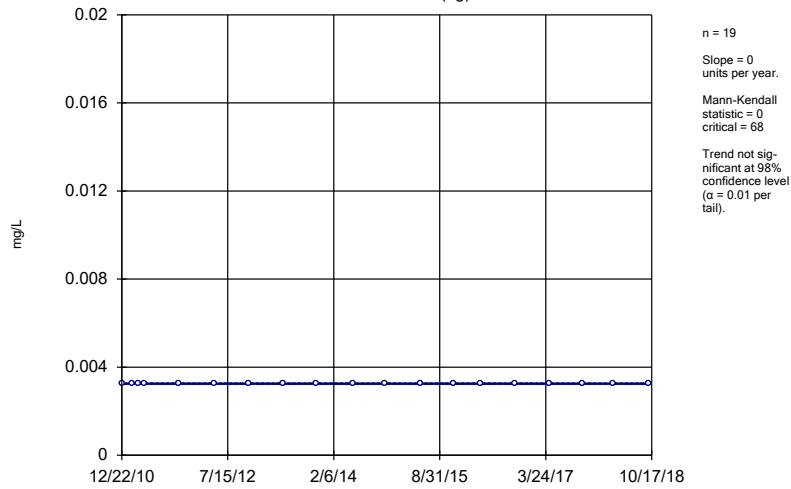
GWC-53



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units per year.  
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critical = 68  
Trend not sig-  
nificant at 98%  
confidence level  
( $\alpha = 0.01$  per  
tail).

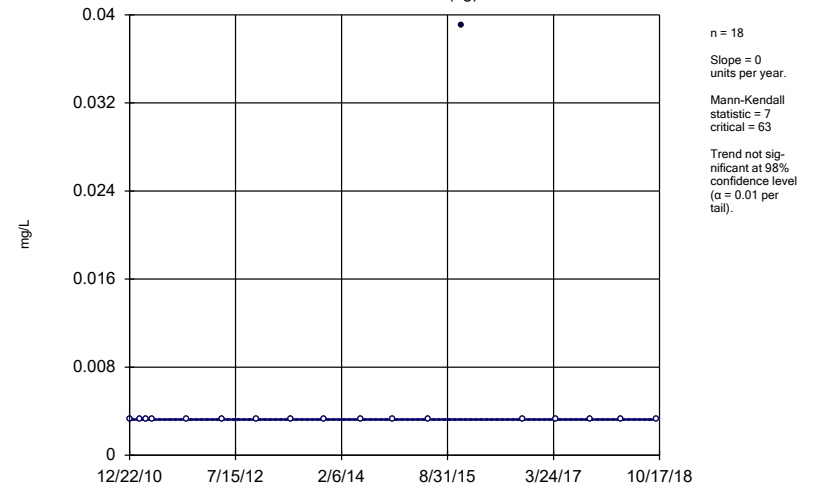
Constituent: Vanadium, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-21 (bg)



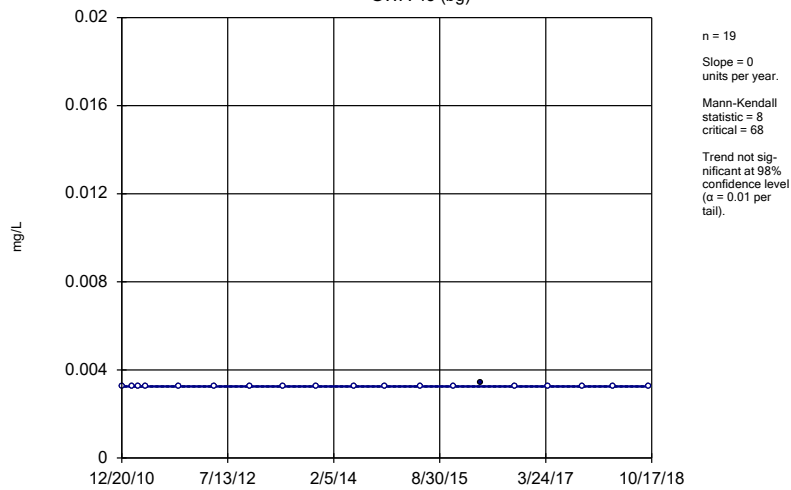
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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-22 (bg)



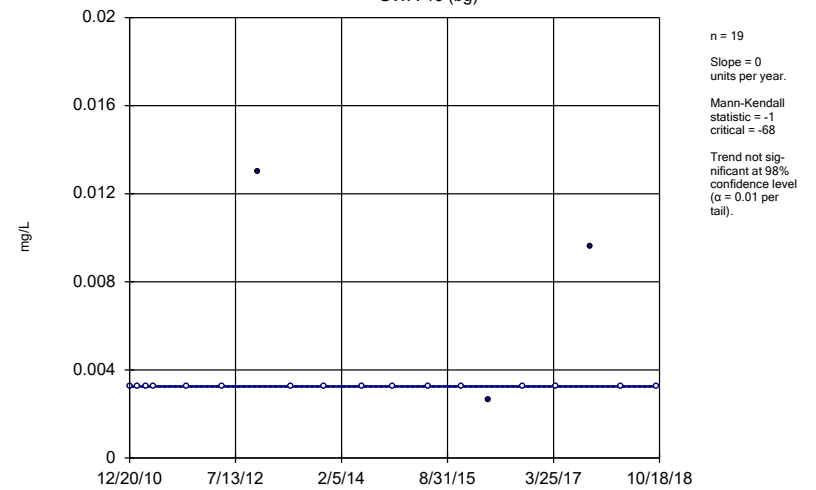
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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-45 (bg)



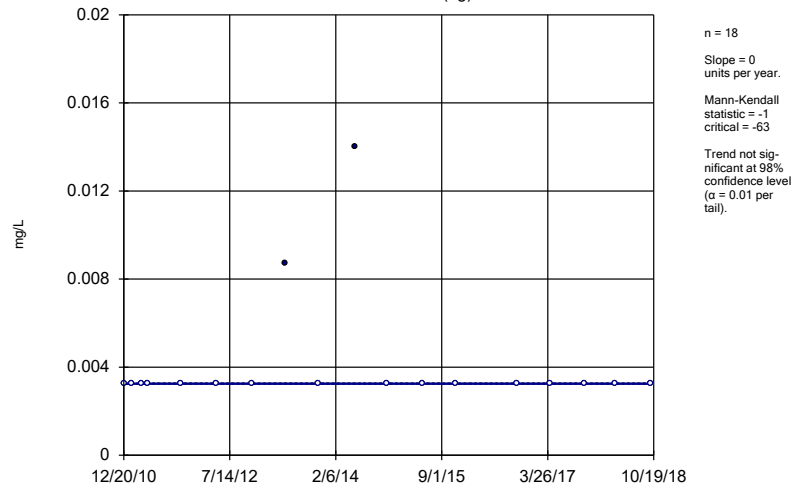
Constituent: Zinc, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-46 (bg)



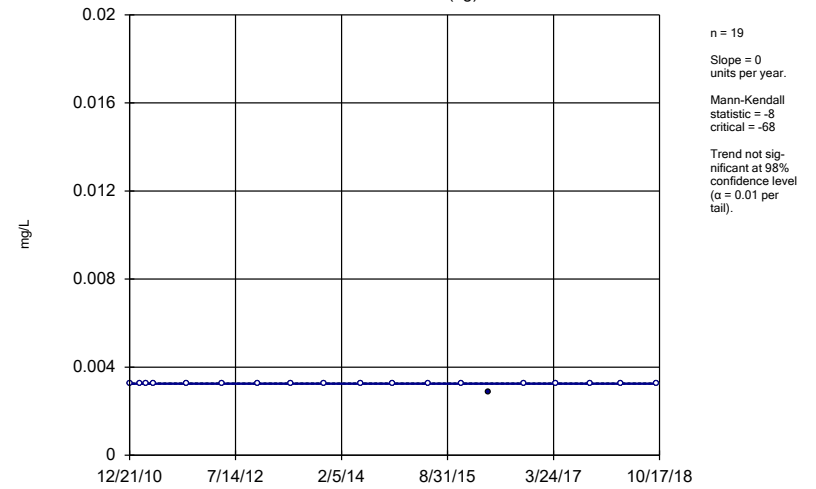
Constituent: Zinc, Total Analysis Run 4/26/2019 2:54 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-47 (bg)



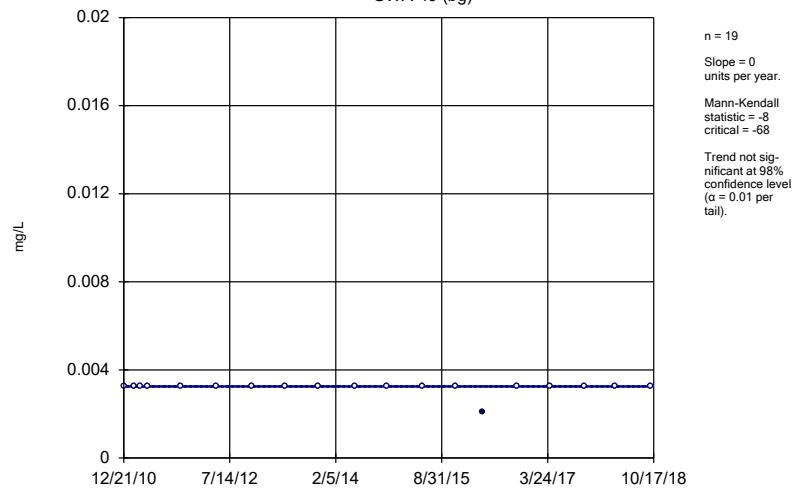
Constituent: Zinc, Total Analysis Run 4/26/2019 2:55 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-48 (bg)



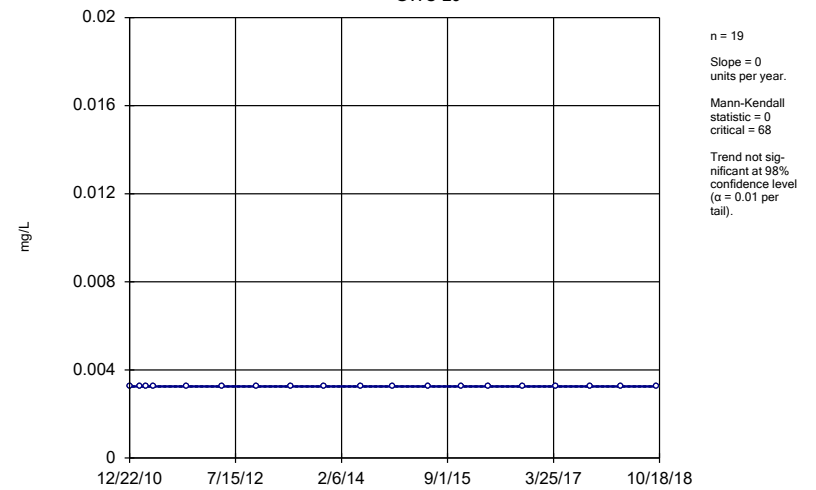
Constituent: Zinc, Total Analysis Run 4/26/2019 2:55 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

Sen's Slope and 95% Confidence Band  
GWA-49 (bg)



Constituent: Zinc, Total Analysis Run 4/26/2019 2:55 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

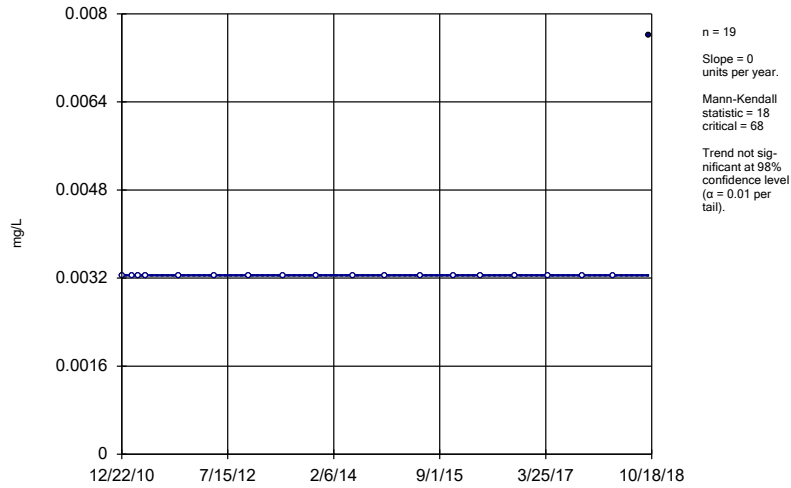
Sen's Slope and 95% Confidence Band  
GWC-29



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### Sen's Slope and 95% Confidence Band

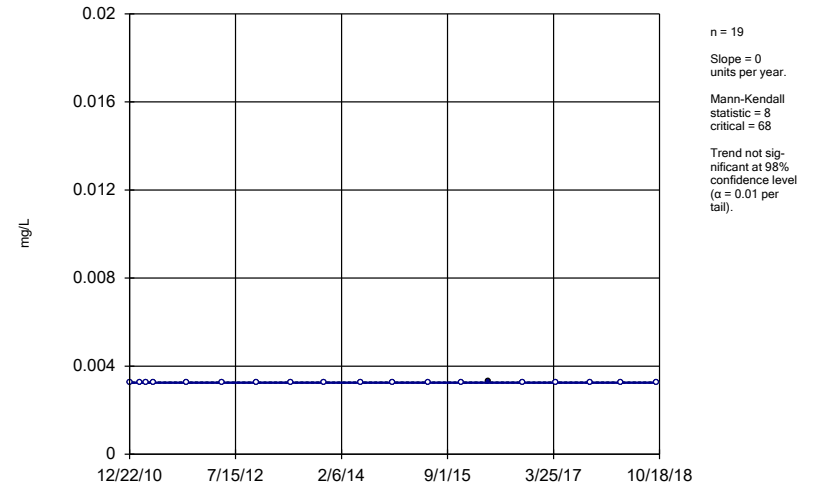
GWC-50



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### Sen's Slope and 95% Confidence Band

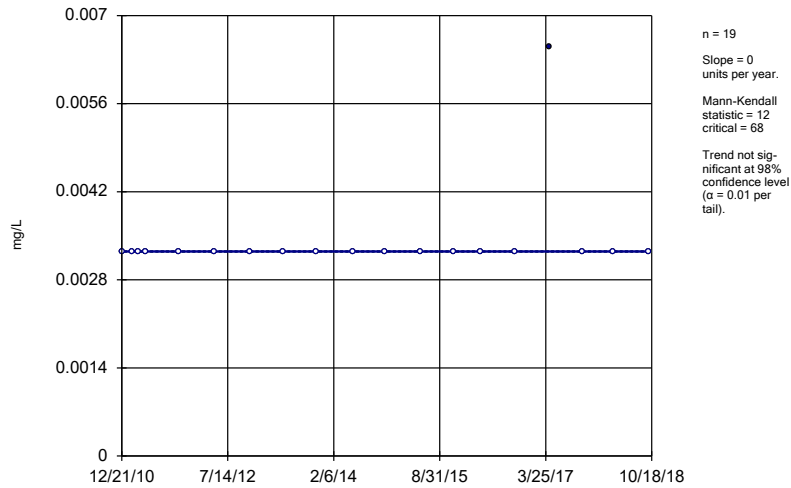
GWC-51



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### Sen's Slope and 95% Confidence Band

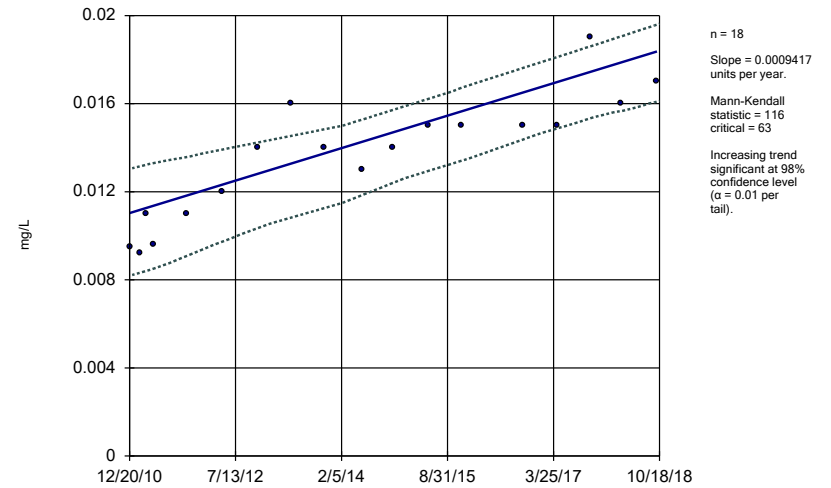
GWC-52



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Scherer Client: Golder Associates Data: Scherer PAC\_CCR

### Sen's Slope and 95% Confidence Band

GWC-53



Constituent: Zinc, Total Analysis Run 4/26/2019 2:55 PM View: State LF IntraWell PLs  
Scherer Client: Golder Associates Data: Scherer PAC\_CCR

# Trend Test

Scherer Client: Golder Associates Data: Scherer PAC\_CCR Printed 4/26/2019, 2:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium, Total (mg/L)	GWA-22 (bg)	-0.00...	-104	-95	Yes	24	0	n/a	n/a	0.02	NP
Barium, Total (mg/L)	GWA-45 (bg)	0.003816	175	95	Yes	24	0	n/a	n/a	0.02	NP
Barium, Total (mg/L)	GWA-47 (bg)	-0.00...	-110	-95	Yes	24	0	n/a	n/a	0.02	NP
Barium, Total (mg/L)	GWA-48 (bg)	-0.00...	-114	-95	Yes	24	0	n/a	n/a	0.02	NP
Barium, Total (mg/L)	GWC-52	0.000...	174	95	Yes	24	0	n/a	n/a	0.02	NP
Barium, Total (mg/L)	GWC-53	-0.00729	-153	-95	Yes	24	8.333	n/a	n/a	0.02	NP
Boron (mg/L)	GWA-45 (bg)	0.3115	37	31	Yes	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-21 (bg)	0.4309	32	31	Yes	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-47 (bg)	-0.1337	-38	-31	Yes	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-48 (bg)	-0.1237	-36	-31	Yes	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-49 (bg)	-0.1502	-35	-31	Yes	11	0	n/a	n/a	0.02	NP
Chromium, Total (mg/L)	GWA-21 (bg)	-0.00...	-201	-95	Yes	24	16.67	n/a	n/a	0.02	NP
Chromium, Total (mg/L)	GWA-22 (bg)	0.000...	178	95	Yes	24	8.333	n/a	n/a	0.02	NP
Chromium, Total (mg/L)	GWC-29	-0.00...	-132	-95	Yes	24	41.67	n/a	n/a	0.02	NP
Chromium, Total (mg/L)	GWC-52	0.000...	96	95	Yes	24	4.167	n/a	n/a	0.02	NP
Cobalt, Total (mg/L)	GWA-45 (bg)	-0.00...	-181	-95	Yes	24	29.17	n/a	n/a	0.02	NP
Cobalt, Total (mg/L)	GWC-53	0.001035	119	95	Yes	24	8.333	n/a	n/a	0.02	NP
Copper, Total (mg/L)	GWA-47 (bg)	-0.00...	-78	-68	Yes	19	26.32	n/a	n/a	0.02	NP
Nickel, Total (mg/L)	GWC-29	0	72	68	Yes	19	68.42	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-21 (bg)	0.9392	46	31	Yes	11	9.091	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-52	5.703	41	31	Yes	11	9.091	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-53	15.15	33	31	Yes	11	0	n/a	n/a	0.02	NP
Vanadium, Total (mg/L)	GWA-48 (bg)	0.000...	69	68	Yes	19	5.263	n/a	n/a	0.02	NP
Zinc, Total (mg/L)	GWC-53	0.000...	116	63	Yes	18	0	n/a	n/a	0.02	NP



**[golder.com](http://golder.com)**





**REPORT**

## Alternate Source Demonstration

*Georgia Power Company - Plant Scherer Cell 1 and PAC Ash Cell  
Permit No. 102.009D(LI)  
2019 First Semi-Annual Monitoring Event*

Submitted to:



**Georgia Power Company**

241 Ralph McGill Boulevard NE, Atlanta, Georgia 30308

Submitted by:

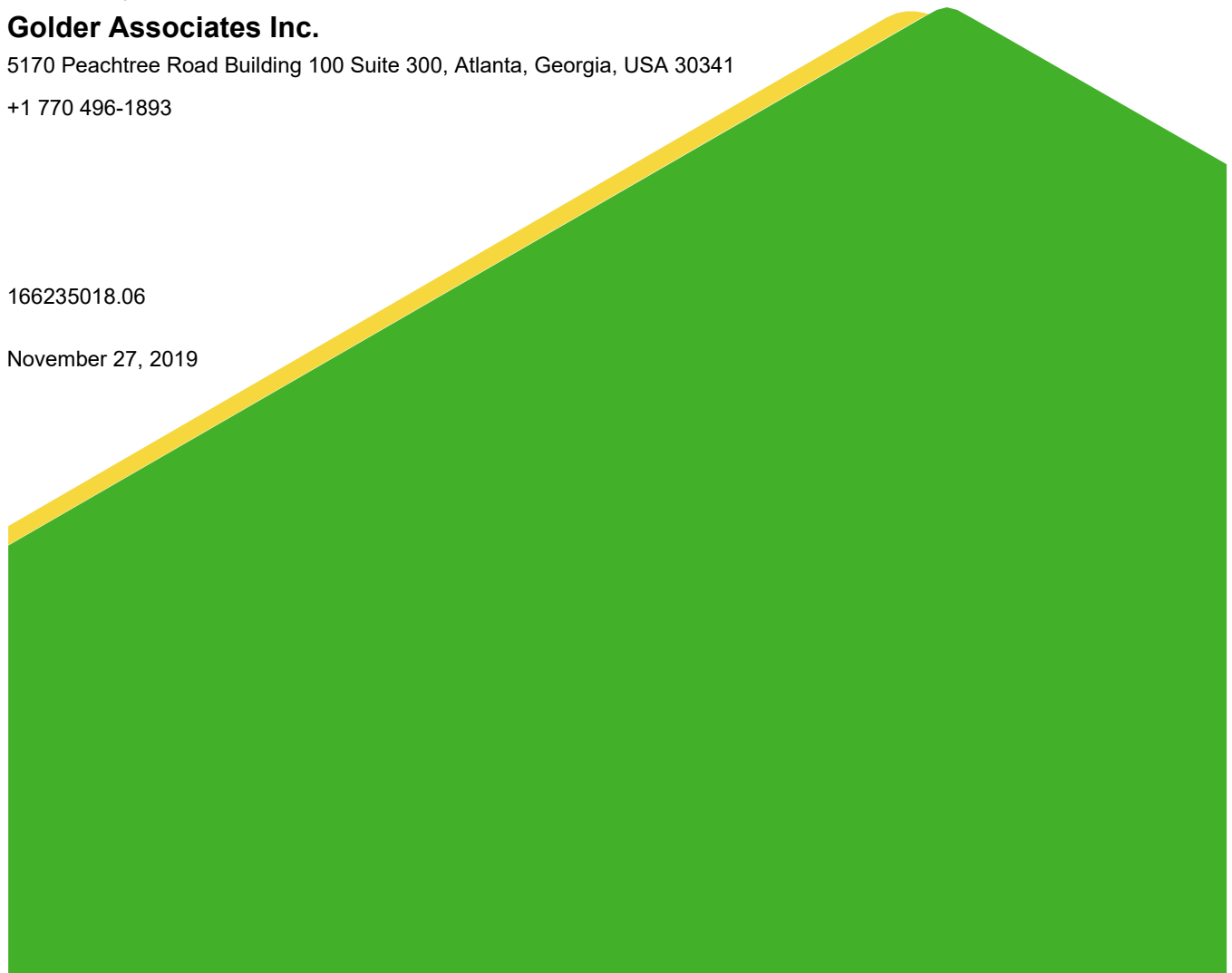
**Golder Associates Inc.**

5170 Peachtree Road Building 100 Suite 300, Atlanta, Georgia, USA 30341

+1 770 496-1893

166235018.06

November 27, 2019



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## FIGURES

Figure 1 Site Location Map

Figure 2 Site Plan and Well Location Map

## APPENDIX

Analytical Data Reports

## Certification

This *Alternate Source Demonstration, Georgia Power Company Plant Scherer Cell 1 and PAC Ash Cell, 2019 First Semi-Annual Monitoring Event*, has been prepared in compliance with applicable 40 CFR § 257.94(e)(2) of the Federal Coal Combustion Residuals (CCR) Rule and §391-3-4-.14(23)(c) Georgia Solid Waste Management Rule by a qualified groundwater scientist or engineer with Golder Associates Inc. References to the appropriate 391-3-4 Rules are incorporated throughout this document.

### Golder Associates Inc.



Rachel P. Kirkman, PG  
Registered Professional Geologist No. 1756

I hereby certify that this 2019 Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company Plant Scherer-Ash Pond (AP-1) located at 10986 Georgia 87, Juliette, Georgia 31046, has been prepared to meet the requirements of 40 CFR §257.90(e).



W. Randall Sullivan, PE  
Georgia Registered Professional Engineer No. 13030

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[https://golderassociates.sharepoint.com/sites/24912g/project/files/200 reports/alternate source demonstrations/11. 2019 1sa asd\\_landfill\\_draft rev0/revised final/11.2019 asd\\_state permit 1sa-2019\\_revised final 11.27.2019.docx](https://golderassociates.sharepoint.com/sites/24912g/project/files/200%20reports/alternate%20source%20demonstrations/11.2019%201sa%20asd_landfill_draft%20rev0/revised%20final/11.2019%20asd_state%20permit%201sa-2019_revised%20final%2011.27.2019.docx)

## 1.0 INTRODUCTION

This alternate source demonstration (ASD) report has been prepared by Golder Associates Inc. (Golder) in accordance with 40 CFR § 257.94(e)(2) of the Federal Coal Combustion Residuals (CCR) Rule and §391-3-4-.14(23)(c) of the Georgia Solid Waste Management Rules to address the statistically significant increases (SSIs) over background presented in the *2019 First Semi-Annual Groundwater Monitoring Report*, dated August 27, 2019 for the first semi-annual groundwater sampling event at Georgia Power's Plant Scherer (Scherer) Cell 1 and Powered Activated Carbon (PAC) Ash cell.

Semi-annual water quality monitoring and reporting for Plant Scherer is performed in accordance with the monitoring program requirements of the Georgia (GA) Department of Natural Resources Environmental Protection Division (EPD) Chapter 391-3-4 Solid Waste Management; Solid Waste Permit 102-009D(LI); and the *Groundwater Monitoring Plan Narrative of the Design & Operations Plan for Georgia Power Company's, Plant Scherer CCB Disposal Facility*, prepared by Southern Company Generation Engineering and Construction Services, February 26, 2010, including a minor modification for the addition of CCR Rule Appendix III and Appendix IV monitoring parameters approved by EPD on August 9, 2017 as well as a minor modification for revised statistical analysis approved by EPD on August 20, 2019. The following sections address the apparent SSIs noted following the March/April 2019 semi-annual monitoring event and verification sampling conducted in September 2019.

## 2.0 SITE DESCRIPTION

Plant Scherer is located in northeast Monroe County, Georgia, approximately 5 miles south of Juliette, GA. The property occupies approximately 12,000 acres and is bounded on the south by Lake Juliette. The plant is primarily surrounded by agricultural and residential use. Figure 1, Site Location Map, depicts the location of Plant Scherer relative to the surrounding area.

The Plant Scherer Landfill consists of a two active cells, namely, Cell 1 and PAC Ash Cell, and future Cells 2 and 3. The two active cells have been utilized since 2011 for the disposal of CCR. The total disposal area occupies approximately 325 acres along the northern portion of the property. Figure 2, Site Plan and Monitoring Well Location Map, depicts the general configuration of the landfill units and site monitoring wells.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south towards Lake Juliette and east toward the Ocmulgee River (Figure 1). The landfill is situated east/southeast of the ash pond which is in a topographically high area on the property. The landfill cells have a geosynthetic clay liner and a geomembrane, and a leachate collection and removal system in place.

## 3.0 EVALUATION OF ANALYTICAL RESULTS & STATISTICAL ANALYSES

As presented in the *2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report*, dated August 27, 2019, analytical results show that concentrations of target constituents are below the established prediction limits (PLs) in groundwater samples collected during the March/April 2019 sampling event with exceptions noted in the report. Initial, apparent statistical exceedances for barium, calcium, sulfate, total dissolved solids (TDS) and vanadium, are noted for select monitoring wells at Cell 1, and initial apparent statistical exceedances of barium, chromium, sulfate and vanadium as well as a verifice exceedance of chromium are noted for select monitoring wells at the PAC Ash unit.

Many of the of the statistical exceedances identified following the March/April 2019 sampling event were not verified through resampling because they are addressed by previously submitted ASDs prepared for the site and are applicable to each of the initial statistical exceedances. This ASD addresses each of the statistical exceedances that have been verified through resampling conducted in September 2019.

### 3.1 Statistical Analysis Method

The selected statistical method for Cell 1 and PAC Ash Cell was developed using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (Unified Guidance). 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 USEPA Unified Guidance (2009) document.

In detection monitoring, groundwater quality data are evaluated using a combination of both interwell and intrawell PLs combined with a resample plan for comparison of compliance data. Interwell statistical analyses pools upgradient data to calculate a PL for which downgradient data is compared, while the intrawell PLs utilize historical data from within a given well to establish a statistical limit for comparison of compliance data at the same well. The selected statistical method(s) uses an optional 1-of-2 verification resample plan. An ‘initial exceedance’ occurs when any downgradient well data exceed the PL.

### 3.2 Statistically Significant Increases

Statistical analyses were performed on data collected in March/April 2019. Table 1, March 2019 Statistically Significant Increase Summary, provides a summary of apparent statistical exceedences noted in the 2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report. Appendix III constituents were evaluated along with the State compliance Design & Operations Plan parameters including barium, chromium and vanadium. As noted below, bold values indicate apparent exceedences that were subsequently verified as SSIs through resampling. Non-bolded values were not verified by resampling and are not considered SSIs.

**Table 1: March 2019 Statistically Significant Increase Summary**

Appendix III Constituents	Cell 1 & PAC Ash Cell Monitoring Wells
Calcium	GWC-8A
Sulfate	GWA-15, <b>GWC-10</b> , GWC-13 <b>GWC-29</b> , GWC-51, <b>GWC-52</b>
Total Dissolved Solids	GWC-8A
State Monitoring Parameters	
Barium	GWC-4, <b>GWA-45</b>
Chromium	<b>GWC-52</b>
Vanadium	<b>GWC-6</b> , GWA-46, GWA-48, GWC-29, GWC-50, GWC-51

Notes:

mg/L = milligrams per liter

Bolded well/constituent pairs represent SSIs that were verified following resampling conducted in September 2019. Non-bold indicates that the initial apparent statistical exceedance reported following the March/April 2019 event was not verified through resampling and is not an SSI.

### 3.3 Verification Sampling

Verification sampling for the statistical exceedances identified following the March/April 2019 monitoring event was conducted in September 2019. Table 2, Summary of Verification Sampling Results, provides the results of the March/April 2019 event along with results from the verification event conducted in September 2019 as well as the upper PL. Review of Table 2 and the analytical results from the September 2019 monitoring event indicates that six (6) SSIs identified in March/April 2019 were verified through resampling and are highlighted in Table 2 below.

**Table 2: Summary of Verification Sampling Results**

Well	Parameter	Concentration (March 2019) mg/L	Resample Result (September 2019) mg/L	Upper Prediction Limit mg/L	SSI (Verified / NotVerified)
<b>Cell 1</b>					
GWC-4	Barium	53	39	50	Not Verified
GWC-6	Vanadium	0.012	0.012	0.011	<b>Verified</b>
GWC-8A	Calcium	47	37	45	Not Verified
	Total Dissolved Solids	300	210	240	Not Verified
GWC-10	Sulfate	1.6	1.8	1.2	<b>Verified</b>
GWC-13	Sulfate	1.3	0.81 J	1.2	Not Verified
GWA-15	Sulfate	2.1	0.65	1.2	Not Verified
<b>Pac Ash Cell</b>					
GWA-45	Barium	0.057	0.10	0.0563	<b>Verified</b>
GWA-46	Vanadium	0.0072	0.0033	0.005981	Not Verified
GWA-48	Vanadium	0.022	0.019	0.02102	Not Verified
GWC-29	Sulfate	3.2	3.2	3.181	<b>Verified</b>
	Vanadium	0.0079	0.0054	0.006698	Not Verified
GWC-50	Vanadium	0.0053	0.0028	0.004554	Not Verified
GWC-51	Sulfate	2.7	0.65 J	1.2	Not Verified
	Vanadium	0.0087	0.0047	0.006449	Not Verified
GWC-52	Chromium	0.019	0.027	0.01517	<b>Verified</b>
	Sulfate	29	34	25.5	<b>Verified</b>

Notes:

GWA = upgradient well

mg/L = milligrams per liter

"J" Result is estimated.

Bolded well/constituent pairs represent SSIs that were verified following September 2019 sampling event.

## 4.0 ALTERNATE SOURCE DEMONSTRATION

As presented in analytical data reports (Appendix) and summarized in Table 1 and Table 2, SSIs of groundwater quality data was noted for sulfate, barium, chromium and vanadium at select Cell 1 and PAC ash monitoring wells. The following discussion is provided regarding these SSIs.

### 4.1 Sulfate (GWC-10, GWC-29, GWC-52)

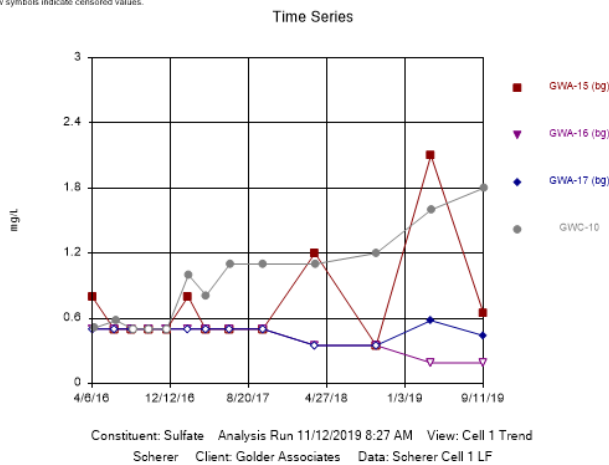
SSIs of sulfate were identified at monitoring wells GWC-10, GWC-29 and GWC-52 following the March/April 2019 sampling event and were confirmed during the September 2019 event. The observed concentration of sulfate at GWC-10 (1.6 and 1.8 mg/L) is slightly above the PL (1.2 mg/L) and is below the observed concentration at

upgradient monitoring well GWA-15 (2.1 mg/L). The concentration observed at GWC-29 (3.2 mg/L for both events) is reported slightly above the PL (3.181 mg/L). The SSI of sulfate at GWC-29 would not have triggered if the PL was calculated at the same significant figures as the observation. Therefore, this SSI can be considered the result of error in statistical evaluation. The reported concentration of sulfate observed at GWC-52 (29 and 34 mg/L) is reported slightly above the PL (25.5 mg/L). Although an increasing trend is observed at GWC-52, the reported concentrations remain below that of upgradient monitoring well GWA-45 which have been observed in the range of 150 mg/L.

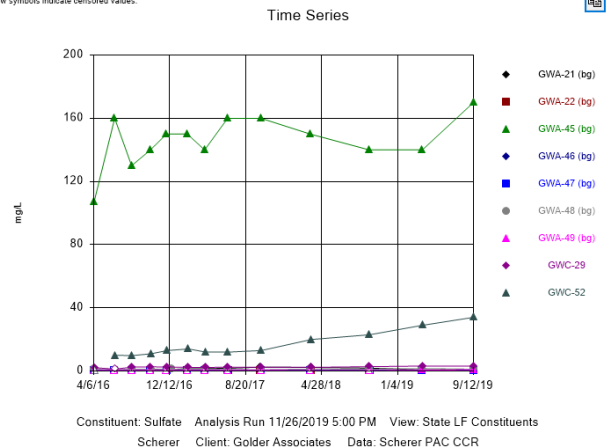
Other indicator parameter concentrations (e.g., boron and chloride) are below statistical limits at these three wells. A release from the unit would result in multiple SSIs of indicator parameters; this has not occurred. The concentrations of sulfate observed at these wells are also within the range of concentrations expected in the regolith – fractured bedrock aquifers in the Piedmont of southeastern U.S<sup>1</sup>.(USGS, 2013).

Based on these points, the statistical exceedances of sulfate at GWC-10, GWC-29 and GWC-52 are interpreted to be the result of natural variability in groundwater chemistry. GPC will continue to monitor the variability of sulfate concentrations at these wells during future sampling events.

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 Hollow symbols indicate censored values.



Santitas™ v 9.6.23 For the statistical analyses of ground water by Golder Associates only. USG  
 Hollow symbols indicate censored values.



## 4.2 Barium (GWA-45)

Well GWA-45 is part of the upgradient monitoring network and is located hydraulically upgradient of the unit as shown on the potentiometric surface map included in the *2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report*. The barium SSI is likely the result of natural variability in groundwater migrating towards the unit and not accommodated by the background data for the site. Review of groundwater elevations and groundwater elevation contour maps for the site indicates that the groundwater flow direction has not changed at the site and GWA-45 is located hydraulically upgradient of the unit. The concentrations of barium observed at these wells are also within the range of concentrations expected in the regolith – fractured bedrock aquifers in the Piedmont of southeastern U.S.(USGS, 2013).

<sup>1</sup> USGS 2013, Scientific Investigation Report, Melinda J. Chapman, Charles A. Cravotta III, Zontan Szabo, and Bruce D. Linidsey, *Naturally Occurring Contaminants in the Piedmons and Blue Ridge Crystalline-Rock Aquifers and Piedmont Early Mesozoic Basin Siliciclastic-Rock Aquifers, Eastern United States, 1994-2008*.

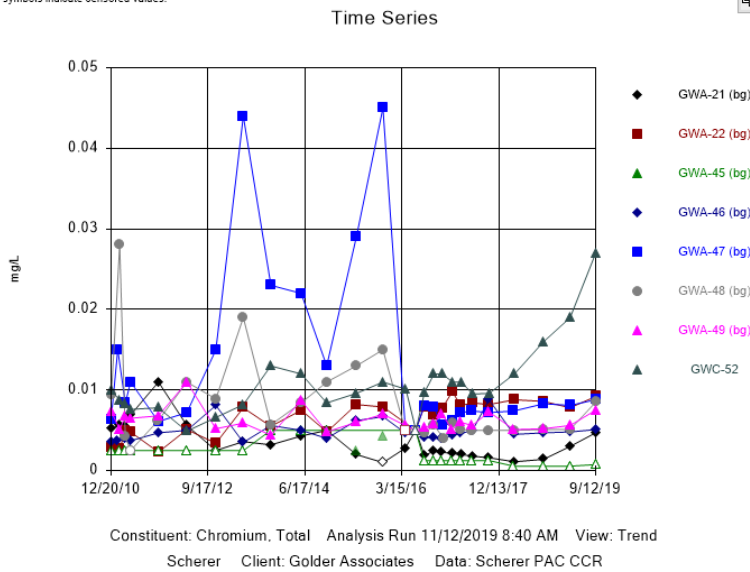
Based on these facts, the statistical exceedance for barium is interpreted to be the result of natural variability in groundwater chemistry. GPC will continue to monitor the occurrence of barium at GWA-45 during future sampling events.

### 4.3 Chromium (GWC-52)

A chromium SSI was identified at monitoring well GWC-52. Review of the time series plot (below) shows that although a slight increasing trend is observed at GWC-52, the reported concentration is well within the range and variability of concentrations historically observed at upgradient monitoring wells GWA-47 and GWA-48. The reported concentration of chromium at GWC-52 (0.019 mg/L) is slightly above the PL (0.01517 mg/L). The concentrations of chromium observed at this well are also within the range of concentrations expected in the regolith – fractured bedrock aquifers in the Piedmont of southeastern U.S.(USGS, 2013).

The statistical exceedance of chromium at GWC-52 is interpreted to be the result of natural variability in groundwater chemistry. GPC will continue to monitor the occurrence of chromium at GWC-52 during future sampling events.

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Hollow symbols indicate censored values.



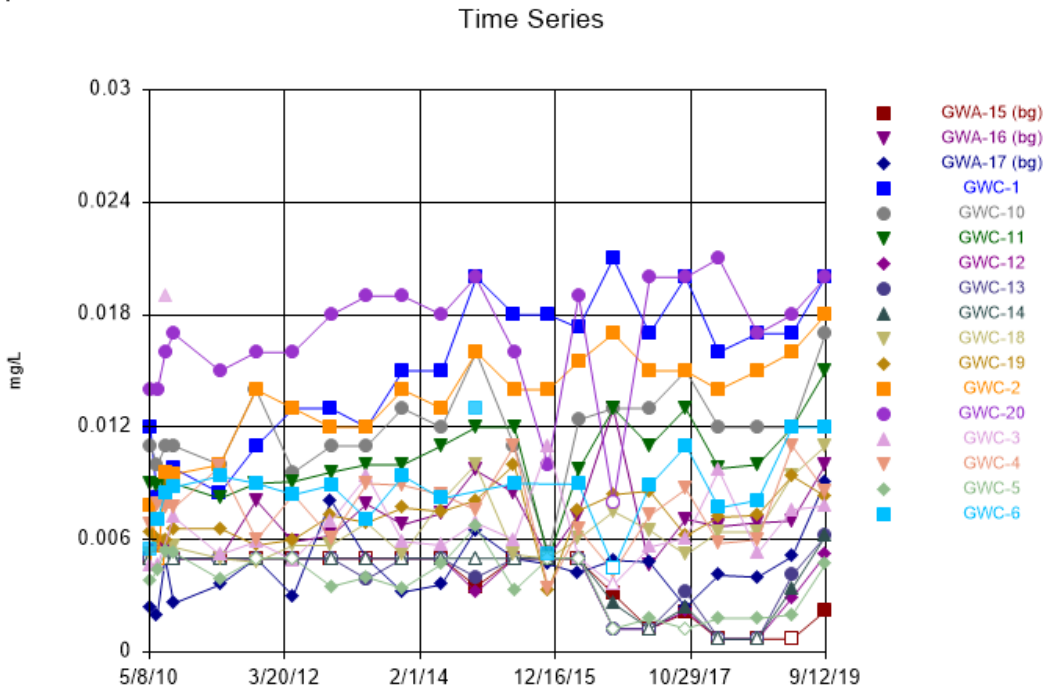
### 4.4 Vanadium (GWC-6)

A vanadium SSI was identified at monitoring well GWC-6. Review of the time series plot (below) shows that although a SSI was identified at GWC-6, the reported concentration (0.012 mg/L), slightly above the PL (0.011 mg/L), is not part of any trend and is within the range of concentrations of vanadium observed across the site. No other indicators have exceeded statistical limits at this well. A release from the unit would result in multiple SSIs of indicator parameters, which is not seen in sample results from this well. The concentrations of vanadium observed at these wells are also within the range of concentrations expected in the regolith – fractured bedrock aquifers in the Piedmont of southeastern U.S.(USGS, 2013).

Based on these facts, the statistical exceedance of vanadium at GWC-6 is interpreted to be the result of natural variability in groundwater chemistry. GPC will continue to monitor the occurrence of vanadium at GWC-6 during future sampling events.



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Hollow symbols indicate censored values.



## 5.0 CONCLUSIONS

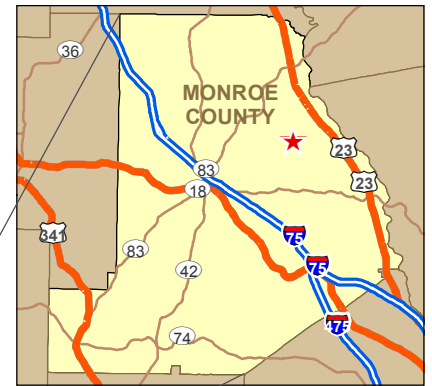
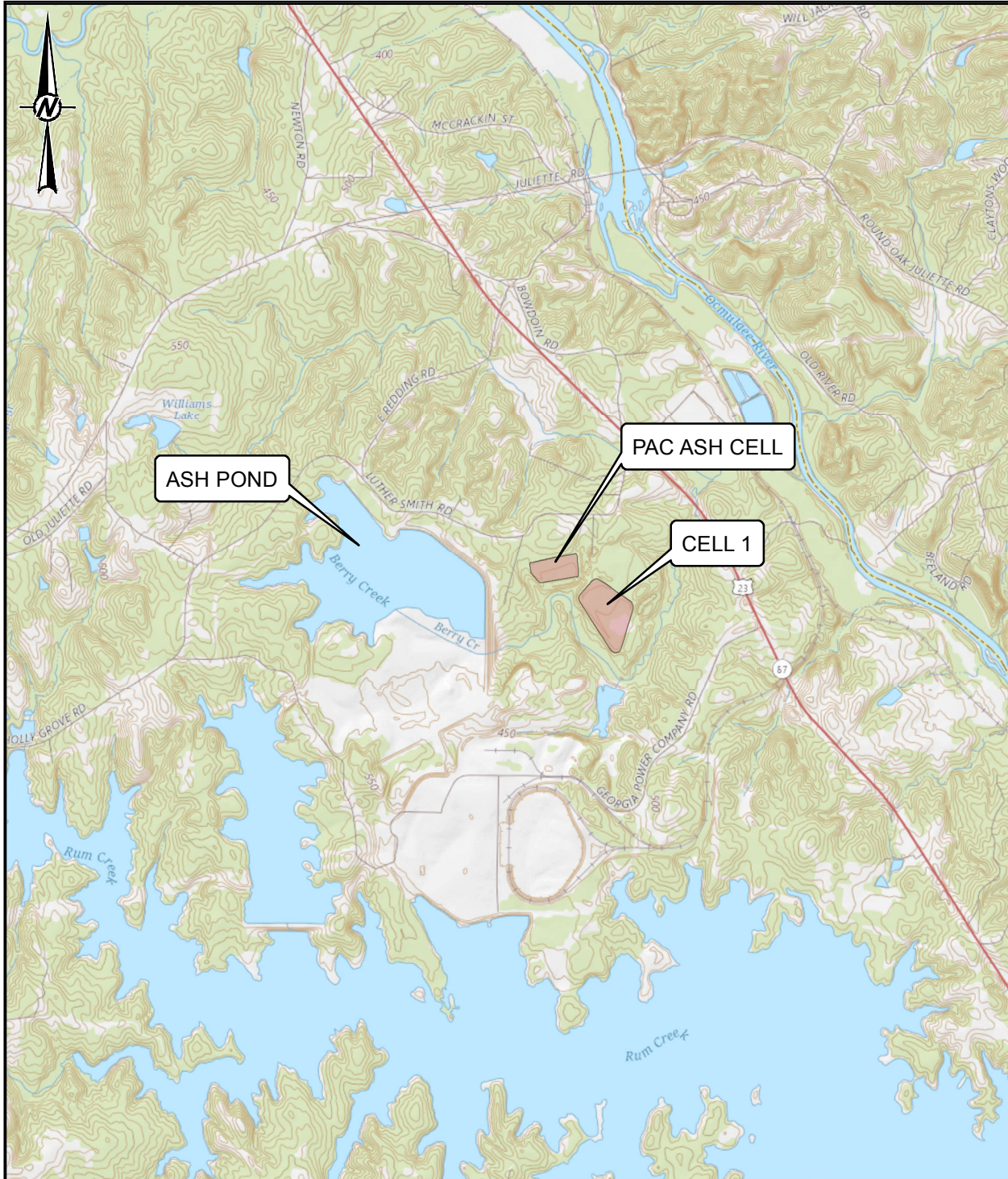
This ASD has been prepared in response to apparent statistical exceedances presented in the *2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Plant Scherer Cell 1 and PAC Ash Cell*, dated August 27, 2019. In accordance with 40 CFR § 257.94(e)(2) and §391-3-4-.14.(23)(c) of the GA Solid Waste Management Rules, this ASD along with previously presented ASDs addresses each of the SSIs confirmed following the September 2019 verification sampling event.

Confirmed SSIs from the March/April 2019 monitoring event are not the result of a release from either of the landfill units, but rather natural variability in groundwater chemistry or statistical error. The concentrations of barium, chromium, sulfate, and vanadium that show SSIs are within the range of concentrations expected in the regolith – fractured bedrock aquifers in the Piedmont of southeastern U.S. (USGS, 2013). The monitoring well network continues to effectively monitor the water bearing unit beneath the Cell 1 and PAC Ash units. Based on the findings presented herein, GPC will continue with detection groundwater monitoring at Cell 1 and PAC Ash Cell.

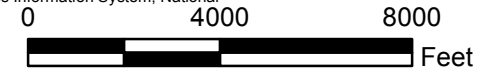
# FIGURES

**Figure 1: Site Location Map**

**Figure 2: Site Plan and Well Location Map**



Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National



CLIENT  
**GEORGIA POWER COMPANY**  
**PLANT SCHERER**



PROJECT  
**2018 1ST SEMI-ANNUAL GROUNDWATER MONITORING**  
**PLANT SCHERER**

TITLE  
**SITE LOCATION MAP**

CONSULTANT



YYYY-MM-DD	2018-01-31
PREPARED	DJC
DESIGN	DLP
REVIEW	<i>djp</i>
APPROVED	<i>rpk</i>

PROJECT No.  
**1662350**

CONTROL  
**1662350\000-GIS.mxd**

Rev.  
**0**

FIGURE  
**1**





**LEGEND**

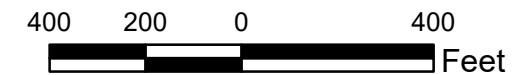
- EXISTING TOPOGRAPHY
- PROPERTY BOUNDARY
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- SURFACE WATER SAMPLE LOCATION

**NOTES**

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

**REFERENCE**

1. SERVICE LAYER CREDITS: ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY  
SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



CLIENT  
**GEORGIA POWER COMPANY**  
 PLANT SCHERER



PROJECT  
**LANDFILL REPORT**

TITLE  
**SITE PLAN AND MONITORING WELL LOCATION MAP**

	CONSULTANT	YYYY-MM-DD	2016-12-08
		PREPARED	DJC
		DESIGN	DLP
		REVIEW	DLP
		APPROVED	RPK

PROJECT No. 1662350 CONTROL 1662350A001-GIS.mxd Rev. 0 FIGURE 2

Path: H:\166k-Projects\1662350-Southern Company Services\figureA-GW CONTOUR MAPS\1662350A001-GIS.mxd

Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community  
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSB



**APPENDIX**

# Analytical Data Reports

**ATTACHMENT**

# 1st SEMI-ANNUAL 2019 ANALYTICAL RESULTS

**ANALYTICAL RESULTS**

**CELL 1**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88203-1  
Laboratory Sample Delivery Group: Cell1 LF  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/15/2019 4:47:10 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

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results through  
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[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416





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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

---

**Job ID: 180-88203-1**

---

**Laboratory: Eurofins TestAmerica, Pittsburgh**

---

## Narrative

---

### Job Narrative 180-88203-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/28/2019 8:45 AM and 3/29/2019 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 3.4° C, 3.7° C and 4.0° C.

#### Anions

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435790 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The laboratory control sample (LCS) for preparation batch 400-435839 and analytical batch 400-436341 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88203-1	GWA-15	Water	03/26/19 10:45	03/28/19 08:45
180-88203-2	GWA-16	Water	03/26/19 11:20	03/28/19 08:45
180-88203-3	GWA-17	Water	03/26/19 10:25	03/28/19 08:45
180-88203-4	GWC-1	Water	03/26/19 12:10	03/28/19 08:45
180-88203-5	GWC-2	Water	03/26/19 13:05	03/28/19 08:45
180-88203-6	GWC-3	Water	03/26/19 16:40	03/28/19 08:45
180-88203-7	GWC-4	Water	03/26/19 14:30	03/28/19 08:45
180-88203-8	GWC-6	Water	03/26/19 15:05	03/28/19 08:45
180-88203-9	GWC-12	Water	03/26/19 15:50	03/28/19 08:45
180-88203-10	GWC-13	Water	03/26/19 15:00	03/28/19 08:45
180-88203-11	GWC-14	Water	03/26/19 13:55	03/28/19 08:45
180-88203-12	GWC-18	Water	03/26/19 11:50	03/28/19 08:45
180-88203-13	GWC-19	Water	03/26/19 10:00	03/28/19 08:45
180-88203-14	GWC-20	Water	03/26/19 15:30	03/28/19 08:45
180-88203-15	EB-1 (LF)	Water	03/26/19 15:45	03/28/19 08:45
180-88203-16	EB-2 (LF)	Water	03/26/19 16:45	03/28/19 08:45
180-88203-17	FD-1 (LF)	Water	03/26/19 00:00	03/28/19 08:45
180-88203-18	FB-1 (LF)	Water	03/26/19 11:15	03/28/19 08:45
180-88290-1	GWC-5	Water	03/27/19 09:49	03/29/19 08:50
180-88290-2	GWC-7	Water	03/27/19 11:05	03/29/19 08:50
180-88290-3	GWC-8A	Water	03/27/19 10:20	03/29/19 08:50
180-88290-4	GWC-9	Water	03/27/19 12:29	03/29/19 08:50
180-88290-5	GWC-10	Water	03/27/19 11:42	03/29/19 08:50
180-88290-6	GWC-11	Water	03/27/19 10:50	03/29/19 08:50
180-88290-7	FB-2 (LF)	Water	03/27/19 10:55	03/29/19 08:50
180-88290-8	FD-2 (LF)	Water	03/27/19 00:00	03/29/19 08:50

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-15**

**Date Collected: 03/26/19 10:45**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 10:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:32	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWA-16**

**Date Collected: 03/26/19 11:20**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 07:33	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:36	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWA-17**

**Date Collected: 03/26/19 10:25**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:20	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:39	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-1**  
**Date Collected: 03/26/19 12:10**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-2**  
**Date Collected: 03/26/19 13:05**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 11:49	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-3**  
**Date Collected: 03/26/19 16:40**  
**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-4**

**Date Collected: 03/26/19 14:30**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:05	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-6**

**Date Collected: 03/26/19 15:05**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-8**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:21	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-12**

**Date Collected: 03/26/19 15:50**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:21	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-13**

**Date Collected: 03/26/19 15:00**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:25	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-14**

**Date Collected: 03/26/19 13:55**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-11**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:30	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

**Client Sample ID: GWC-18**

**Date Collected: 03/26/19 11:50**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-12**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 10:11	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:33	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-19**

**Date Collected: 03/26/19 10:00**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-13**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:37	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: GWC-20**

**Date Collected: 03/26/19 15:30**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-14**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:00	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: EB-1 (LF)**

**Date Collected: 03/26/19 15:45**

**Date Received: 03/28/19 08:45**

**Lab Sample ID: 180-88203-15**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 06:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:04	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:37	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: EB-2 (LF)**

**Lab Sample ID: 180-88203-16**

**Date Collected: 03/26/19 16:45**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 06:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:08	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:39	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

**Date Collected: 03/26/19 00:00**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:12	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

**Date Collected: 03/26/19 11:15**

**Matrix: Water**

**Date Received: 03/28/19 08:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 07:10	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:16	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-5**  
**Date Collected: 03/27/19 09:49**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:27	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:06	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-7**  
**Date Collected: 03/27/19 11:05**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:59	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:46	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:08	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-8A**  
**Date Collected: 03/27/19 10:20**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 11:15	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:50	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:10	JAP	TAL PEN
Instrument ID: HYDRA AA2										

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-88290-4**

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 21:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-88290-5**

Date Collected: 03/27/19 11:42

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-88290-6**

Date Collected: 03/27/19 10:50

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 11:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:21	DRE	TAL PEN



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-11**  
**Date Collected: 03/27/19 10:50**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:25	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FB-2 (LF)**  
**Date Collected: 03/27/19 10:55**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 13:21	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:27	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: FD-2 (LF)**  
**Date Collected: 03/27/19 00:00**  
**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88290-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 12:18	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:30	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:29	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001  
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-15**  
Date Collected: 03/26/19 10:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-1**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>5.5</b>		1.0	0.71	mg/L			04/01/19 10:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 10:30	1
<b>Sulfate</b>	<b>2.1</b>		1.0	0.38	mg/L			04/01/19 10:30	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Barium</b>	<b>0.0099</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:32	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Calcium</b>	<b>4.0</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
<b>Cobalt</b>	<b>0.0019</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:32	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:32	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:32	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:32	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:32	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:32	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>45</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWA-16**  
Date Collected: 03/26/19 11:20  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-2**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			04/01/19 07:33	1
<b>Fluoride</b>	<b>0.041</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 07:33	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:33	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:36	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Calcium</b>	<b>11</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:36	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-16**  
Date Collected: 03/26/19 11:20  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0046</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:36	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:36	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:36	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:36	5
<b>Vanadium</b>	<b>0.0070</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:36	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:36	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWA-17**  
Date Collected: 03/26/19 10:25  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.3</b>		1.0	0.71	mg/L			04/01/19 08:20	1
<b>Fluoride</b>	<b>0.042</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 08:20	1
<b>Sulfate</b>	<b>0.58</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 08:20	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Barium</b>	<b>0.031</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:39	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Calcium</b>	<b>6.7</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Chromium</b>	<b>0.0065</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:39	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:39	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:39	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:39	5
<b>Vanadium</b>	<b>0.0051</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:39	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:39	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWA-17**  
Date Collected: 03/26/19 10:25  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-3**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-1**  
Date Collected: 03/26/19 12:10  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			04/01/19 08:36	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 08:36	1
Sulfate	0.53	J	1.0	0.38	mg/L			04/01/19 08:36	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:02	5
Barium	0.044		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:02	5
Chromium	0.013		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:02	5
Vanadium	0.017		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:02	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-2**  
Date Collected: 03/26/19 13:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 11:49	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-2**  
Date Collected: 03/26/19 13:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 11:49	1
Sulfate	0.99	J	1.0	0.38	mg/L			04/01/19 11:49	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:06	5
Barium	0.045		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Calcium	17		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:06	5
Chromium	0.0096		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:06	5
Vanadium	0.016		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:06	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-3**  
Date Collected: 03/26/19 16:40  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			04/01/19 08:52	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 08:52	1
Sulfate	0.47	J	1.0	0.38	mg/L			04/01/19 08:52	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:10	5
Barium	0.015		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Calcium	7.3		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:10	5
Chromium	0.0075		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:10	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-3**  
Date Collected: 03/26/19 16:40  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:10	5
<b>Vanadium</b>	<b>0.0076</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:10	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>86</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-4**  
Date Collected: 03/26/19 14:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.2</b>		1.0	0.71	mg/L			04/01/19 12:05	1
<b>Fluoride</b>	<b>0.087</b>	J	0.20	0.026	mg/L			04/01/19 12:05	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			04/01/19 12:05	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Barium</b>	<b>0.053</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Calcium</b>	<b>13</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Cobalt</b>	<b>0.00096</b>	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Chromium</b>	<b>0.0084</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Copper</b>	<b>0.0039</b>		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Nickel</b>	<b>0.0036</b>		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:14	5
<b>Vanadium</b>	<b>0.011</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:13	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-4**  
Date Collected: 03/26/19 14:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-6**  
Date Collected: 03/26/19 15:05  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			04/01/19 12:21	1
Fluoride	0.058	J	0.20	0.026	mg/L			04/01/19 12:21	1
Sulfate	6.3		1.0	0.38	mg/L			04/01/19 12:21	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:18	5
Barium	0.052		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:18	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-12**  
Date Collected: 03/26/19 15:50  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 12:36	1
Fluoride	0.026	J	0.20	0.026	mg/L			04/01/19 12:36	1
Sulfate	0.49	J	1.0	0.38	mg/L			04/01/19 12:36	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-12**  
Date Collected: 03/26/19 15:50  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-9**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Barium</b>	<b>0.017</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:21	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Calcium</b>	<b>1.1</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Chromium</b>	<b>0.0013 J</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:21	5
<b>Vanadium</b>	<b>0.0029</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:21	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:21	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>29</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-13**  
Date Collected: 03/26/19 15:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-10**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.71	mg/L			04/01/19 12:52	1
<b>Fluoride</b>	<b>0.040 J</b>		0.20	0.026	mg/L			04/01/19 12:52	1
<b>Sulfate</b>	<b>1.3</b>		1.0	0.38	mg/L			04/01/19 12:52	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Barium</b>	<b>0.035</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:25	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Calcium</b>	<b>6.3</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Chromium</b>	<b>0.0048</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:25	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:25	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:25	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:25	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-13**  
Date Collected: 03/26/19 15:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-10**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:25	5
<b>Vanadium</b>	<b>0.0041</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:25	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:25	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>59</b>		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-14**  
Date Collected: 03/26/19 13:55  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-11**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			04/01/19 13:08	1
<b>Fluoride</b>	<b>0.034</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:08	1
<b>Sulfate</b>	<b>0.64</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 13:08	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Barium</b>	<b>0.0092</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:30	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Calcium</b>	<b>6.4</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:30	5
<b>Vanadium</b>	<b>0.0034</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:30	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:30	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>60</b>		10	10	mg/L			03/29/19 13:08	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-18**  
Date Collected: 03/26/19 11:50  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-12**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/01/19 10:11	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 10:11	1
Sulfate	0.39	J	1.0	0.38	mg/L			04/01/19 10:11	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:33	5
Barium	0.033		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:33	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Calcium	9.6		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:33	5
Chromium	0.014		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:33	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:33	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:33	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:33	5
Vanadium	0.0094		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:33	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:33	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			03/29/19 13:08	1

**Client Sample ID: GWC-19**  
Date Collected: 03/26/19 10:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-13**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/01/19 09:08	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 09:08	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 09:08	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:37	5
Barium	0.018		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:37	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:37	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-19**  
Date Collected: 03/26/19 10:00  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-13**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0091</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:37	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:37	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:37	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:37	5
<b>Vanadium</b>	<b>0.0094</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:37	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:37	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: GWC-20**  
Date Collected: 03/26/19 15:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-14**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.71	mg/L			04/01/19 09:24	1
<b>Fluoride</b>	<b>0.045</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 09:24	1
<b>Sulfate</b>	<b>0.45</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 09:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Barium</b>	<b>0.030</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:00	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Chromium</b>	<b>0.0092</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:00	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:00	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:00	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:00	5
<b>Vanadium</b>	<b>0.018</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:00	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:00	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-20**  
Date Collected: 03/26/19 15:30  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-14**  
Matrix: Water

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: EB-1 (LF)**  
Date Collected: 03/26/19 15:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-15**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:39	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:39	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:39	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:04	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:04	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:04	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:04	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:04	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:04	5
Vanadium	0.0025		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:04	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:04	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: EB-2 (LF)**  
Date Collected: 03/26/19 16:45  
Date Received: 03/28/19 08:45

**Lab Sample ID: 180-88203-16**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: EB-2 (LF)**

**Lab Sample ID: 180-88203-16**

Date Collected: 03/26/19 16:45

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:55	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:55	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:08	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:08	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:08	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:08	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:08	5
<b>Vanadium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:08	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:08	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>12</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.0</b>		1.0	0.71	mg/L			04/01/19 13:24	1
<b>Fluoride</b>	<b>0.089</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:24	1
<b>Sulfate</b>	<b>3.0</b>		1.0	0.38	mg/L			04/01/19 13:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Barium</b>	<b>0.048</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:12	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Cobalt</b>	<b>0.00055</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Chromium</b>	<b>0.0069</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:12	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: FD-1 (LF)**

**Lab Sample ID: 180-88203-17**

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:12	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:12	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Copper</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Nickel</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:12	5
<b>Vanadium</b>	<b>0.010</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:12	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:12	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:12	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>130</b>		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 07:10	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 07:10	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:10	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:16	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:16	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:16	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:16	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:16	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:16	5
<b>Vanadium</b>	<b>0.0026</b>		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:16	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:16	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:42	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: FB-1 (LF)**

**Lab Sample ID: 180-88203-18**

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-88290-1**

Date Collected: 03/27/19 09:49

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			04/01/19 10:27	1
Fluoride	0.038	J	0.20	0.026	mg/L			04/01/19 10:27	1
Sulfate	260		5.0	1.9	mg/L			04/01/19 10:43	5

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:26	5
Barium	0.038		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:26	5
Boron	0.33	F1	0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Calcium	75		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:26	5
Chromium	0.0039		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:26	5
Selenium	0.023		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:26	5
Vanadium	0.0020	J	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:26	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10	10	mg/L			04/01/19 14:05	1

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-88290-2**

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 10:59	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 10:59	1
Sulfate	0.51	J	1.0	0.38	mg/L			04/01/19 10:59	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-88290-2**

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Barium</b>	<b>0.033</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:46	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Chromium</b>	<b>0.0088</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:46	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:46	5
<b>Vanadium</b>	<b>0.013</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:46	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:46	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			04/01/19 14:05	1

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>6.6</b>		1.0	0.71	mg/L			04/01/19 11:15	1
<b>Fluoride</b>	<b>0.071</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 11:15	1
<b>Sulfate</b>	<b>18</b>		1.0	0.38	mg/L			04/01/19 11:15	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.0012</b>	<b>J</b>	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Barium</b>	<b>0.025</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Boron</b>	<b>0.16</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Calcium</b>	<b>47</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
<b>Cobalt</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:50	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:50	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-88290-3**

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Vanadium</b>	<b>0.0030</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:50	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:50	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>300</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-88290-4**

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.0</b>		1.0	0.71	mg/L			04/01/19 13:40	1
<b>Fluoride</b>	<b>0.066</b>	J	0.20	0.026	mg/L			04/01/19 13:40	1
<b>Sulfate</b>	<b>6.8</b>		1.0	0.38	mg/L			04/01/19 13:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>0.00062</b>	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Barium</b>	<b>0.018</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Boron</b>	<b>0.067</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Calcium</b>	<b>16</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Chromium</b>	<b>0.0064</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:54	5
<b>Vanadium</b>	<b>0.019</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:54	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:54	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>140</b>		10	10	mg/L			04/01/19 14:55	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-10**  
Date Collected: 03/27/19 11:42  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/01/19 13:55	1
Fluoride	0.077	J	0.20	0.026	mg/L			04/01/19 13:55	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 13:55	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:18	5
Barium	0.027		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Calcium	16		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:18	5
Chromium	0.017		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:18	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:18	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-11**  
Date Collected: 03/27/19 10:50  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 11:30	1
Fluoride	0.048	J	0.20	0.026	mg/L			04/01/19 11:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 11:30	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:21	5
Barium	0.015		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:21	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Calcium	12		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:21	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

**Client Sample ID: GWC-11**  
Date Collected: 03/27/19 10:50  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0070</b>		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:21	5
<b>Vanadium</b>	<b>0.012</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:21	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:21	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FB-2 (LF)**

Date Collected: 03/27/19 10:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88290-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 13:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 13:21	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 13:21	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:26	5
<b>Vanadium</b>	<b>0.0033</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:26	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:26	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Client Sample ID: FB-2 (LF)

Date Collected: 03/27/19 10:55

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88290-7

Matrix: Water

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:27	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

## Client Sample ID: FD-2 (LF)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88290-8

Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.2		1.0	0.71	mg/L			04/01/19 12:18	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 12:18	1
Sulfate	17		1.0	0.38	mg/L			04/01/19 12:18	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00083	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:30	5
Barium	0.026		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:30	5
Boron	0.15		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Calcium	47		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:30	5
Vanadium	0.0035		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:30	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:30	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/01/19 14:55	1

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-274458/6**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 05:41	1

**Lab Sample ID: LCS 180-274458/5**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110
Fluoride	1.25	1.34		mg/L		108	90 - 110
Sulfate	25.0	27.1		mg/L		108	90 - 110

**Lab Sample ID: 180-88203-1 MS**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		25.0	30.5		mg/L		100	80 - 120
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120
Sulfate	2.1		25.0	25.7		mg/L		95	80 - 120

**Lab Sample ID: 180-88203-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.5		25.0	30.4		mg/L		100	80 - 120	0	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	1	20
Sulfate	2.1		25.0	25.7		mg/L		94	80 - 120	0	20

**Lab Sample ID: MB 180-274459/6**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

**Lab Sample ID: LCS 180-274459/5**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-88203-2 MS**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWA-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120
Fluoride	0.041	J	1.25	1.32		mg/L		102	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

**Lab Sample ID: 180-88203-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWA-16**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	28.2		mg/L		107	80 - 120	2	20
Fluoride	0.041	J	1.25	1.34		mg/L		104	80 - 120	2	20
Sulfate	<0.38		25.0	26.8		mg/L		107	80 - 120	2	20

**Lab Sample ID: 180-88290-6 MS**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWC-11**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.8		mg/L		105	80 - 120
Fluoride	0.048	J	1.25	1.34		mg/L		104	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

**Lab Sample ID: 180-88290-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: GWC-11**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120	0	20
Fluoride	0.048	J	1.25	1.33		mg/L		103	80 - 120	1	20
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120	0	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-435790/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:02	5

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435790/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:02	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:02	5

**Lab Sample ID: LCS 400-435790/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435790**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0492		mg/L		98	80 - 120
Barium	0.0500	0.0476		mg/L		95	80 - 120
Boron	0.100	0.104		mg/L		104	80 - 120
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	5.00	4.81		mg/L		96	80 - 120
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Cobalt	0.0500	0.0484		mg/L		97	80 - 120
Chromium	0.0500	0.0470		mg/L		94	80 - 120
Lead	0.0500	0.0477		mg/L		95	80 - 120
Antimony	0.0500	0.0432		mg/L		86	80 - 120
Selenium	0.0500	0.0486		mg/L		97	80 - 120
Thallium	0.0100	0.00975		mg/L		97	80 - 120
Copper	0.0500	0.0489		mg/L		98	80 - 120
Nickel	0.0500	0.0489		mg/L		98	80 - 120
Vanadium	0.0500	0.0481		mg/L		96	80 - 120
Silver	0.0500	0.0459		mg/L		92	80 - 120
Zinc	0.0500	0.0497		mg/L		99	80 - 120

**Lab Sample ID: MB 400-435839/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:14	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:14	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:14	5

Eurofins TestAmerica, Pittsburgh



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435839/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:14	5

**Lab Sample ID: LCS 400-435839/2-A**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0508		mg/L		102	80 - 120
Barium	0.0500	0.0484		mg/L		97	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Calcium	5.00	4.79		mg/L		96	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Cobalt	0.0500	0.0492		mg/L		98	80 - 120
Chromium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.0500	0.0521		mg/L		104	80 - 120
Antimony	0.0500	0.0490		mg/L		98	80 - 120
Selenium	0.0500	0.0470		mg/L		94	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120
Copper	0.0500	0.0503		mg/L		101	80 - 120
Nickel	0.0500	0.0494		mg/L		99	80 - 120
Vanadium	0.0500	0.0484		mg/L		97	80 - 120
Silver	0.0500	0.0612	*	mg/L		122	80 - 120
Zinc	0.0500	0.0487		mg/L		97	80 - 120

**Lab Sample ID: 180-88290-1 MS**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: GWC-5**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435839**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00046		0.0500	0.0515		mg/L		103	75 - 125
Barium	0.038		0.0500	0.0867		mg/L		98	75 - 125
Boron	0.33	F1	0.100	0.465	F1	mg/L		134	75 - 125
Beryllium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125
Calcium	75		5.00	81.3	4	mg/L		116	75 - 125
Cadmium	<0.00034		0.0500	0.0498		mg/L		100	75 - 125
Cobalt	<0.00040		0.0500	0.0489		mg/L		98	75 - 125
Chromium	0.0039		0.0500	0.0525		mg/L		97	75 - 125
Lead	<0.00035		0.0500	0.0528		mg/L		106	75 - 125
Antimony	<0.0010		0.0500	0.0510		mg/L		102	75 - 125
Selenium	0.023		0.0500	0.0673		mg/L		88	75 - 125
Thallium	<0.000085		0.0100	0.0100		mg/L		100	75 - 125
Copper	<0.0021		0.0500	0.0500		mg/L		100	75 - 125
Nickel	<0.0018		0.0500	0.0509		mg/L		102	75 - 125
Vanadium	0.0020	J	0.0500	0.0504		mg/L		97	75 - 125
Silver	<0.00011	*	0.0500	0.0559		mg/L		112	75 - 125
Zinc	<0.0065		0.0500	0.0540		mg/L		108	75 - 125

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-88290-1 MSD  
Matrix: Water  
Analysis Batch: 436341

Client Sample ID: GWC-5  
Prep Type: Total Recoverable  
Prep Batch: 435839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00046		0.0500	0.0561		mg/L		112	75 - 125	9	20
Barium	0.038		0.0500	0.0992		mg/L		123	75 - 125	14	20
Boron	0.33	F1	0.100	0.456		mg/L		125	75 - 125	2	20
Beryllium	<0.00034		0.0500	0.0488		mg/L		98	75 - 125	2	20
Calcium	75		5.00	94.0	4	mg/L		370	75 - 125	14	20
Cadmium	<0.00034		0.0500	0.0578		mg/L		116	75 - 125	15	20
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125	8	20
Chromium	0.0039		0.0500	0.0581		mg/L		108	75 - 125	10	20
Lead	<0.00035		0.0500	0.0523		mg/L		105	75 - 125	1	20
Antimony	<0.0010		0.0500	0.0576		mg/L		115	75 - 125	12	20
Selenium	0.023		0.0500	0.0668		mg/L		87	75 - 125	1	20
Thallium	<0.000085		0.0100	0.0101		mg/L		101	75 - 125	1	20
Copper	<0.0021		0.0500	0.0549		mg/L		110	75 - 125	9	20
Nickel	<0.0018		0.0500	0.0543		mg/L		109	75 - 125	6	20
Vanadium	0.0020	J	0.0500	0.0555		mg/L		107	75 - 125	10	20
Silver	<0.00011	*	0.0500	0.0603		mg/L		121	75 - 125	7	20
Zinc	<0.0065		0.0500	0.0583		mg/L		117	75 - 125	8	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435577/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 13:33	04/03/19 12:27	1

Lab Sample ID: LCS 400-435577/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00105		mg/L		104	80 - 120

Lab Sample ID: MB 400-435593/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:30	1

Lab Sample ID: LCS 400-435593/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00106		mg/L		105	80 - 120

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-88203-1 MS**  
**Matrix: Water**  
**Analysis Batch: 435757**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**  
**Prep Batch: 435593**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00214		mg/L		106	80 - 120

**Lab Sample ID: 180-88203-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 435757**

**Client Sample ID: GWA-15**  
**Prep Type: Total/NA**  
**Prep Batch: 435593**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00215		mg/L		107	80 - 120	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-274370/2**  
**Matrix: Water**  
**Analysis Batch: 274370**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 13:08	1

**Lab Sample ID: LCS 180-274370/1**  
**Matrix: Water**  
**Analysis Batch: 274370**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	288		mg/L		95	80 - 120

**Lab Sample ID: MB 180-274388/2**  
**Matrix: Water**  
**Analysis Batch: 274388**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

**Lab Sample ID: LCS 180-274388/1**  
**Matrix: Water**  
**Analysis Batch: 274388**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	252		mg/L		83	80 - 120

**Lab Sample ID: MB 180-274515/2**  
**Matrix: Water**  
**Analysis Batch: 274515**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:05	1

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-274515/1**  
**Matrix: Water**  
**Analysis Batch: 274515**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	318		mg/L	-	105	80 - 120

**Lab Sample ID: MB 180-274516/2**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L	-		04/01/19 14:55	1

**Lab Sample ID: LCS 180-274516/1**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L	-	104	80 - 120

**Lab Sample ID: 180-88290-8 DU**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: FD-2 (LF)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		302		mg/L	-	2	10

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## HPLC/IC

### Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-5	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-88203-7	GWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88203-8	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-88203-9	GWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-88203-10	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-88203-11	GWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-88203-15	EB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-16	EB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-17	FD-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-18	FB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-4	GWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-88290-5	GWC-10	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MS	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MSD	GWA-15	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-2	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-3	GWA-17	Total/NA	Water	EPA 300.0 R2.1	
180-88203-4	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-88203-6	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-88203-12	GWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-88203-13	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-88203-14	GWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-2	GWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-88290-3	GWC-8A	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-7	FB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-8	FD-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MS	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MSD	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MS	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MSD	GWC-11	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 435577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	7470A	
180-88290-2	GWC-7	Total/NA	Water	7470A	
180-88290-3	GWC-8A	Total/NA	Water	7470A	
180-88290-4	GWC-9	Total/NA	Water	7470A	
180-88290-5	GWC-10	Total/NA	Water	7470A	
180-88290-6	GWC-11	Total/NA	Water	7470A	

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# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Metals (Continued)

### Prep Batch: 435577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 435593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	
180-88203-2	GWA-16	Total/NA	Water	7470A	
180-88203-3	GWA-17	Total/NA	Water	7470A	
180-88203-4	GWC-1	Total/NA	Water	7470A	
180-88203-5	GWC-2	Total/NA	Water	7470A	
180-88203-6	GWC-3	Total/NA	Water	7470A	
180-88203-7	GWC-4	Total/NA	Water	7470A	
180-88203-8	GWC-6	Total/NA	Water	7470A	
180-88203-9	GWC-12	Total/NA	Water	7470A	
180-88203-10	GWC-13	Total/NA	Water	7470A	
180-88203-11	GWC-14	Total/NA	Water	7470A	
180-88203-12	GWC-18	Total/NA	Water	7470A	
180-88203-13	GWC-19	Total/NA	Water	7470A	
180-88203-14	GWC-20	Total/NA	Water	7470A	
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	

### Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	435593
180-88203-2	GWA-16	Total/NA	Water	7470A	435593
180-88203-3	GWA-17	Total/NA	Water	7470A	435593
180-88203-4	GWC-1	Total/NA	Water	7470A	435593
180-88203-5	GWC-2	Total/NA	Water	7470A	435593
180-88203-6	GWC-3	Total/NA	Water	7470A	435593
180-88203-7	GWC-4	Total/NA	Water	7470A	435593
180-88203-8	GWC-6	Total/NA	Water	7470A	435593
180-88203-9	GWC-12	Total/NA	Water	7470A	435593
180-88203-10	GWC-13	Total/NA	Water	7470A	435593
180-88203-11	GWC-14	Total/NA	Water	7470A	435593
180-88203-12	GWC-18	Total/NA	Water	7470A	435593
180-88203-13	GWC-19	Total/NA	Water	7470A	435593
180-88203-14	GWC-20	Total/NA	Water	7470A	435593
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	435593
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	435593
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	435593
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	435593
180-88290-1	GWC-5	Total/NA	Water	7470A	435577

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
 SDG: Cell1 LF

## Metals (Continued)

### Analysis Batch: 435757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-2	GWC-7	Total/NA	Water	7470A	435577
180-88290-3	GWC-8A	Total/NA	Water	7470A	435577
180-88290-4	GWC-9	Total/NA	Water	7470A	435577
180-88290-5	GWC-10	Total/NA	Water	7470A	435577
180-88290-6	GWC-11	Total/NA	Water	7470A	435577
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	435577
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	435577
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	435577
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	435593
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	435577
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	435593
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	435593
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	435593

### Prep Batch: 435790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	3005A	
180-88203-2	GWA-16	Total Recoverable	Water	3005A	
180-88203-3	GWA-17	Total Recoverable	Water	3005A	
180-88203-4	GWC-1	Total Recoverable	Water	3005A	
180-88203-5	GWC-2	Total Recoverable	Water	3005A	
180-88203-6	GWC-3	Total Recoverable	Water	3005A	
180-88203-7	GWC-4	Total Recoverable	Water	3005A	
180-88203-8	GWC-6	Total Recoverable	Water	3005A	
180-88203-9	GWC-12	Total Recoverable	Water	3005A	
180-88203-10	GWC-13	Total Recoverable	Water	3005A	
180-88203-11	GWC-14	Total Recoverable	Water	3005A	
180-88203-12	GWC-18	Total Recoverable	Water	3005A	
180-88203-13	GWC-19	Total Recoverable	Water	3005A	
180-88203-14	GWC-20	Total Recoverable	Water	3005A	
180-88203-15	EB-1 (LF)	Total Recoverable	Water	3005A	
180-88203-16	EB-2 (LF)	Total Recoverable	Water	3005A	
180-88203-17	FD-1 (LF)	Total Recoverable	Water	3005A	
180-88203-18	FB-1 (LF)	Total Recoverable	Water	3005A	
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 435839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	3005A	
180-88290-2	GWC-7	Total Recoverable	Water	3005A	
180-88290-3	GWC-8A	Total Recoverable	Water	3005A	
180-88290-4	GWC-9	Total Recoverable	Water	3005A	
180-88290-5	GWC-10	Total Recoverable	Water	3005A	
180-88290-6	GWC-11	Total Recoverable	Water	3005A	
180-88290-7	FB-2 (LF)	Total Recoverable	Water	3005A	
180-88290-8	FD-2 (LF)	Total Recoverable	Water	3005A	
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-88290-1 MS	GWC-5	Total Recoverable	Water	3005A	
180-88290-1 MSD	GWC-5	Total Recoverable	Water	3005A	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## Metals

### Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	6020	435790
180-88203-2	GWA-16	Total Recoverable	Water	6020	435790
180-88203-3	GWA-17	Total Recoverable	Water	6020	435790
180-88203-4	GWC-1	Total Recoverable	Water	6020	435790
180-88203-5	GWC-2	Total Recoverable	Water	6020	435790
180-88203-6	GWC-3	Total Recoverable	Water	6020	435790
180-88203-7	GWC-4	Total Recoverable	Water	6020	435790
180-88203-8	GWC-6	Total Recoverable	Water	6020	435790
180-88203-9	GWC-12	Total Recoverable	Water	6020	435790
180-88203-10	GWC-13	Total Recoverable	Water	6020	435790
180-88203-11	GWC-14	Total Recoverable	Water	6020	435790
180-88203-12	GWC-18	Total Recoverable	Water	6020	435790
180-88203-13	GWC-19	Total Recoverable	Water	6020	435790
180-88203-14	GWC-20	Total Recoverable	Water	6020	435790
180-88203-15	EB-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-16	EB-2 (LF)	Total Recoverable	Water	6020	435790
180-88203-17	FD-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-18	FB-1 (LF)	Total Recoverable	Water	6020	435790
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	6020	435790
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	6020	435790

### Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	6020	435839
180-88290-2	GWC-7	Total Recoverable	Water	6020	435839
180-88290-3	GWC-8A	Total Recoverable	Water	6020	435839
180-88290-4	GWC-9	Total Recoverable	Water	6020	435839
180-88290-5	GWC-10	Total Recoverable	Water	6020	435839
180-88290-6	GWC-11	Total Recoverable	Water	6020	435839
180-88290-7	FB-2 (LF)	Total Recoverable	Water	6020	435839
180-88290-8	FD-2 (LF)	Total Recoverable	Water	6020	435839
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	6020	435839
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	6020	435839
180-88290-1 MS	GWC-5	Total Recoverable	Water	6020	435839
180-88290-1 MSD	GWC-5	Total Recoverable	Water	6020	435839

## General Chemistry

### Analysis Batch: 274370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	SM 2540C	
180-88203-2	GWA-16	Total/NA	Water	SM 2540C	
180-88203-3	GWA-17	Total/NA	Water	SM 2540C	
180-88203-4	GWC-1	Total/NA	Water	SM 2540C	
180-88203-5	GWC-2	Total/NA	Water	SM 2540C	
180-88203-6	GWC-3	Total/NA	Water	SM 2540C	
180-88203-7	GWC-4	Total/NA	Water	SM 2540C	
180-88203-8	GWC-6	Total/NA	Water	SM 2540C	
180-88203-9	GWC-12	Total/NA	Water	SM 2540C	
180-88203-10	GWC-13	Total/NA	Water	SM 2540C	
180-88203-11	GWC-14	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1  
SDG: Cell1 LF

## General Chemistry (Continued)

### Analysis Batch: 274370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-12	GWC-18	Total/NA	Water	SM 2540C	
MB 180-274370/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274370/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-13	GWC-19	Total/NA	Water	SM 2540C	
180-88203-14	GWC-20	Total/NA	Water	SM 2540C	
180-88203-15	EB-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-16	EB-2 (LF)	Total/NA	Water	SM 2540C	
180-88203-17	FD-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-18	FB-1 (LF)	Total/NA	Water	SM 2540C	
MB 180-274388/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274388/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	SM 2540C	
180-88290-2	GWC-7	Total/NA	Water	SM 2540C	
MB 180-274515/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274515/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-3	GWC-8A	Total/NA	Water	SM 2540C	
180-88290-4	GWC-9	Total/NA	Water	SM 2540C	
180-88290-5	GWC-10	Total/NA	Water	SM 2540C	
180-88290-6	GWC-11	Total/NA	Water	SM 2540C	
180-88290-7	FB-2 (LF)	Total/NA	Water	SM 2540C	
180-88290-8	FD-2 (LF)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-88290-8 DU	FD-2 (LF)	Total/NA	Water	SM 2540C	



**TestAmerica Pittsburgh**

301 Alpha Drive  
 RIDC Park  
 Pittsburgh, PA 15238-2907  
 phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>	<b>Project Manager: Dawn Prell</b>	<b>Site Contact: Karim Minkara</b>	<b>Date: 3/27/19</b>	<b>COC No:</b>
Joju Abraham	<b>Tel/Fax: 248-536-5445</b>	<b>Lab Contact: Veronica Bortot</b>	<b>Carrier:</b>	1 of 2 COCs
Southern Company	<b>Analysis Turnaround Time</b>			<b>Sampler:</b>
241 Ralph McGill Blvd SE B10185	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS			<b>For Lab Use Only:</b>
Atlanta, GA 30308	TAT if different from Below ___ 3-5 days ___			Walk-in Client:
JAbraham@southernco.com	<input type="checkbox"/> 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Cell 1	<input type="checkbox"/> 1 week			Job / SDG No.:
Site: Georgia	<input type="checkbox"/> 2 days			
P O # 18019884	<input type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zn: 50	Cl, F, SO4, TDS	Notes:
GWA-15	3/26/2019	1045	G	Water	2		X	X		
GWA-16	3/26/2019	1120	G	Water	2		X	X		
GWA-17	3/26/2019	1025	G	Water	2		X	X		
GWC-1	3/26/2019	1210	G	Water	2		X	X		
GWC-2	3/26/2019	1305	G	Water	2		X	X		
GWC-3	3/26/2019	1640	G	Water	2		X	X		
GWC-4	3/26/2019	1430	G	Water	2		X	X		
GWC-6	3/26/2019	1505	G	Water	2		X	X		
GWC-12	3/26/2019	1550	G	Water	2		X	X		
GWC-13	3/26/2019	1500	G	Water	2		X	X		
GWC-14	3/26/2019	1355	G	Water	2		X	X		
GWC-18	3/26/2019	1150	G	Water	2		X	X		

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**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Kary Miller</i>	Company: <i>Golden</i>	Date/Time: <i>3-27-2019</i>	Received by: <i>Elaine Cook</i>	Company: <i>Courier Now</i>
Relinquished by: <i>Rich</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19</i>	Received by: <i>Elaine Cook</i>	Company: <i>Golden</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19</i>	Received in Laboratory by: <i>Dedrick Watson</i>	Company: <i>TAPIH</i>

4/5/2019

895



**TestAmerica Pittsburgh**

301 Alpha Drive  
 RIDC Park  
 Pittsburgh, PA 15238-2907  
 phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>	<b>Project Manager: Dawn Prell</b>	<b>Site Contact: Karim Minkara</b>	<b>Date: 3/27/19</b>	<b>COC No:</b>
Joju Abraham	<b>Tel/Fax: 248-536-5445</b>	<b>Lab Contact: Veronica Bortot</b>	<b>Carrier:</b>	<u>2</u> of <u>2</u> COCs
<b>Southern Company</b>	<b>Analysis Turnaround Time</b>			<b>Sampler:</b>
241 Ralph McGill Blvd SE B10185	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS			<b>For Lab Use Only:</b>
Atlanta, GA 30308	TAT if different from Below <u>3-5</u> days			Walk-in Client: <input type="checkbox"/>
JAbraham@southernco.com	<input type="checkbox"/> 2 weeks			Lab Sampling: <input type="checkbox"/>
Project Name: CCR - Plant Scherer	<input type="checkbox"/> 1 week			Job / SDG No.:
Site: Cell 1	<input type="checkbox"/> 2 days			
P O # 18019884	<input type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD, P / N	6020, 7470A, As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zr, Sb	Cl, F, SO4, TDS	Sample Specific Notes:
GWC-19	3/26/2019	1000	G	Water	2		X	X		
GWC-20	3/26/2019	1530	G	Water	2		X	X		
EB-1 (LF)	3/26/2019	1545	G	Water	2		X	X		
EB-2 (LF)	3/26/2019	1645	G	Water	2		X	X		
FD-1 (LF)	3/26/2019	--	G	Water	2		X	X		
FB-1 (LF)	3/26/2019	1115	G	Water	2		X	X		

**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact:  Yes  No

Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <i>[Signature]</i>	Company: <i>Goldor</i>	Date/Time: <i>3/27/19 8:00</i>	Received by: <i>Plaine Cook</i>	Company: <i>Courier Now</i>	Date/Time: <i>3/27/19 8:00</i>
Relinquished by: <i>Plaine Cook</i>	Company: <i>[Signature]</i>	Date/Time: <i>3/27/19 10:00</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>	Date/Time: <i>3/27/19 10:00</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 16:10</i>	Received in Laboratory by: <i>Deanne Watson</i>	Company: <i>TA</i>	Date/Time: <i>3-28-19</i>

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4/15/2019

8:45





**TestAmerica Pittsburgh**

301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238-2907  
phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com Project Name: CCR - Plant Scherer Cell 1 Site: Georgia P O # 18019884	<b>Project Manager: Dawn Prell</b> Tel/Fax: 248-536-5445	<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot	Date: 3/28/19 Carrier:	COC No: 1 of 2 COCs Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:
<b>Analysis Turnaround Time</b> <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below ___ 3-5 days ___ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Filtered Sample (Y/N)</b> Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn Cl, F, SO4, TDS		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWC-5	3/27/2019	949	G	Water	2		X	X	
GWC-7	3/27/2019	1105	G	Water	2		X	X	
GWC-8A	3/27/2019	1020	G	Water	2		X	X	
GWC-9	3/27/2019	1229	G	Water	2		X	X	
GWC-10	3/27/2019	1142	G	Water	2		X	X	
GWC-11	3/27/2019	1050	G	Water	2		X	X	
FB-2 (LF)	3/27/2019	1055	G	Water	2		X	X	
FD-2 (LF)	3/27/2019	-	G	Water	2		X	X	



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**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other  
4 1

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact:  Yes  No  
Custody Seal No.: \_\_\_\_\_ Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Corr'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <i>Chris Tizwell</i>	Company: <i>Colder</i>	Date/Time: <i>7-28-11 7:58</i>	Received by: <i>Etaine Cook</i>	Company: <i>Courier Now</i>	Date/Time: <i>3/28/19 8:00</i>
Relinquished by: <i>Etaine Cook</i>	Company: <i>Colder</i>	Date/Time: <i>3/28/19 10:20</i>	Received by: <i>TA</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 10:10</i>
Relinquished by: <i>TA</i>	Company: <i>TA</i>	Date/Time: <i>16:10 3/28/19</i>	Received in Laboratory by: <i>Donna Watson</i>	Company: <i>TA</i>	Date/Time: <i>3-28-19 8:50</i>

3/28/2019





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 2/16/19  
ACTING: SU  
CAD: 859116 P-FF 12

ORIGIN ID: MULA (678) 966-9981  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

BILL RECIPIENT

10 **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: SOUTHERN CO.



2 of 2  
MPS# 4651 0080 9905  
Mstr# 4651 0080 9890  
THU - 28 MAR 3:00P  
STANDARD OVERNIGHT  
15238  
PA-US PIT



21K=0 #10

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ORIGIN ID: MULA  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

180-88203 Waybill  
**SAMPLE RECEIVING**  
**PITTSBURGH**  
**1 ALPHA DRIVE**  
**RIDC PARK**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: SOUTHERN CO.



1 of 2  
MPS# 4651 0080 9890  
Mstr# 4651 0080 9890  
THU - 28 MAR 3:00P  
STANDARD OVERNIGHT  
15238  
PA-US PIT



Unrecorded temp  
Thermometer ID  
Initials  
CF

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



edEx Express Package US Airbill

FedEx Tracking Number 8116 7091 8535

Form No. 0200

4 Express Package Servi

Next Business Day

- FedEx First Overnight
- FedEx Priority Overnight
- FedEx Standard Overnight

5 Packaging

- FedEx Envelope\*

6 Special Handling and Deli

- Saturday Delivery
- No Signature Required

Does this shipment contain hazardous materials?

- No
- Yes

7 Payment Bill to:

- Sender
- Recipient

Total Packages Total Weight

Our liability is limited to USD\$100 per package.

Item: Dims 3x5 - Part #187002 - FedEx - Per...

ENVIRONMENTAL TESTING 592545

RT-97 1 16:00 A 8535 03:29

FedEx 2Day A.M. Second business morning. Saturday Delivery NOT available.

FedEx 2Day Second business afternoon. Third business day. Saturday Delivery NOT available.

Direct Signature Indirect Signature

Dry Ice Cargo Aircraft Only

Third Party Credit Card Cash/Check

Sample Central  
TA Pittsburgh  
301 Alpha Dr.  
RIDC Park  
Pittsburgh PA



FRI - 29 MAR AA  
STANDARD OVERNIGHT

GCA

15238  
PA-US  
PIT

corrected temp thermometer ID 7.9 °C

Initials TD

WI-SR-001 effective 11/8/18

MGEA 553C1/46D3/8C6A

Barcode with number 180-88290 06298-081

644



1  
2  
3  
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10  
11  
12  
13

# FedEx Package Express

## US Airbill

FedEx Tracking Number **8116 7091 8524**

1 From [Redacted] Date [Redacted]

Sender's Name [Redacted] Phone [Redacted]

Company [Redacted]

Address [Redacted]

City [Redacted] State [Redacted] ZIP [Redacted]

### 2 Your Internal Billing Reference

3 To Recipient's Name **Sample Control** Phone **412-963-7258**

Company **TH Pittsburg**

Address **301 Alpha Dr.**

Address **RIDE Park**

City **Pittsburg** State **PA** ZIP **15238**

From ID No. **0200**

4 Express Package Service  Next Business Day

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

5 Packaging  FedEx P

6 Special Handling and Delivery Signature  Saturday Delivery

Signature Required

Does this shipment contain dangerous goods?  No  Yes

7 Payment Bill to:  Sender  Recipient

Total Packages **25** Total Weight **1.0**

FedEx TRK# **8116 7091 8524**

**FRI - 29 MAR AA**  
**STANDARD OVERNIGHT**

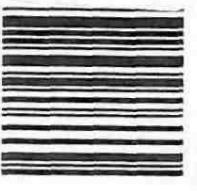
**15238**  
PA-US  
PIT

# NA AGCA

Uncorrected temp  
Thermometer ID

CF 0 Initials TS

PT-VI-SR-001 effective 11/8/18



F1D 429154 28MAR19 MCEA 553CI/4503/0C8A

Your liability is limited to US\$100 unless you declare a higher value. See the cover Rev. 01/15 • Part # 109002 • ©2012-2015 FedEx • PRINTED IN U.S.A. 890



**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>			Sampler:	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 180-358762.1
Client Contact: Shipping/Receiving			Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.			Accreditations Required (See note):			Job #: 180-88203-1
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:		Due Date Requested: 4/3/2019	<b>Analysis Requested</b>			Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer		TAT Requested (days):				
PO #:		WO #:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_Prep 6020/3005A (MOD) Appendix III & IV			Total Number of containers
Project #: 18019884 SSOW#:						

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A_Prep	6020/3005A (MOD) Appendix III & IV	Total Number of containers	Special Instructions/Note:
Preservation Code:										
GWA-15 (180-88203-1)	3/26/19	10:45 Eastern		Water	X	X			1	
GWA-16 (180-88203-2)	3/26/19	11:20 Eastern		Water	X	X			1	
GWA-17 (180-88203-3)	3/26/19	10:25 Eastern		Water	X	X			1	
GWC-1 (180-88203-4)	3/26/19	12:10 Eastern		Water	X	X			1	
GWC-2 (180-88203-5)	3/26/19	13:05 Eastern		Water	X	X			1	
GWC-3 (180-88203-6)	3/26/19	16:40 Eastern		Water	X	X			1	
GWC-4 (180-88203-7)	3/26/19	14:30 Eastern		Water	X	X			1	
GWC-6 (180-88203-8)	3/26/19	15:05 Eastern		Water	X	X			1	
GWC-12 (180-88203-9)	3/26/19	15:50 Eastern		Water	X	X			1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

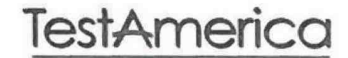
<b>Possible Hazard Identification</b> Unconfirmed			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: 4/1/19 1700	Company: TAPEN	Received by: <i>[Signature]</i>		Date/Time: 4.2.19 0859 Company: TAPEN
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°, 13.5°, 13.2°   R7		



**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
 Pittsburgh, PA 15238  
 Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving				Phone:	Bortot, Veronica	180-358762.2	
Company: TestAmerica Laboratories, Inc.				E-Mail:	veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 2 of 2
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/3/2019 TAT Requested (days):	<b>Analysis Requested</b>		Job #: 180-88203-1 Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer				PO #: WO #:	Accreditations Required (See note):		
Project #: 18019884 SSOW#:				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_Prep 6020/3005A (MOD) Appendix III & IV		Total Number of containers	
<b>Sample Identification - Client ID (Lab ID)</b>				<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>
				<b>Preservation Code:</b>			
GWC-13 (180-88203-10)				3/26/19	15:00 Eastern		Water
GWC-14 (180-88203-11)				3/26/19	13:55 Eastern		Water
GWC-18 (180-88203-12)				3/26/19	11:50 Eastern		Water
GWC-19 (180-88203-13)				3/26/19	10:00 Eastern		Water
GWC-20 (180-88203-14)				3/26/19	15:30 Eastern		Water
EB-1 (LF) (180-88203-15)				3/26/19	15:45 Eastern		Water
EB-2 (LF) (180-88203-16)				3/26/19	16:45 Eastern		Water
FD-1 (LF) (180-88203-17)				3/26/19	Eastern		Water
FB-1 (LF) (180-88203-18)				3/26/19	11:15 Eastern		Water
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I							
<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Empty Kit Relinquished by:				Special Instructions/QC Requirements:			
Relinquished by:				Date: 4/11/19 17:00		Time: 17:00	
Relinquished by:				Date/Time: 4-2-19 0859		Company: TAPEN	
Relinquished by:				Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c 127	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88203**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88203**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 01:03 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88290**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

**Login Number: 88290**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 01:13 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**ANALYTICAL RESULTS**

# PAC ASH CELL

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-88291-1  
Laboratory Sample Delivery Group: PAC Ash  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
4/15/2019 10:15:26 PM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Job ID: 180-88291-1**

**Laboratory: Eurofins TestAmerica, Pittsburgh**

## Narrative

### Job Narrative 180-88291-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/29/2019 8:50 AM and 3/30/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.1° C, 3.5° C, 3.9° C, 4.0° C and 4.8° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-48 (180-88291-4). The container labels list a sample collection time of 13:50, while the COC lists 13:55. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-46 (180-88291-7). The container labels lists a sample collection time of 15:00, while the COC lists 14:55. The time on the COC was used.

#### Anions

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 6020: The post digestion spike % recovery associated with batch 400-435940 was outside of control limits. The following sample is impacted: (180-88200-C-1-B PDS ^5).

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435792 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
 SDG: PAC Ash

## Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88291-1	GWA-45	Water	03/27/19 11:30	03/29/19 08:50
180-88291-2	GWA-49	Water	03/27/19 12:35	03/29/19 08:50
180-88291-3	GWA-21	Water	03/27/19 13:33	03/29/19 08:50
180-88291-4	GWA-48	Water	03/27/19 13:55	03/29/19 08:50
180-88291-5	GWA-47	Water	03/27/19 14:05	03/29/19 08:50
180-88291-6	GWA-22	Water	03/27/19 14:29	03/29/19 08:50
180-88291-7	GWA-46	Water	03/27/19 14:55	03/29/19 08:50
180-88291-8	GWC-51	Water	03/27/19 15:29	03/29/19 08:50
180-88291-9	FB-1 (PA)	Water	03/27/19 13:30	03/29/19 08:50
180-88291-10	FD-1 (PA)	Water	03/27/19 00:00	03/29/19 08:50
180-88291-11	EB-1 (PA)	Water	03/27/19 15:15	03/29/19 08:50
180-88348-1	GWC-50	Water	03/28/19 09:40	03/30/19 10:00
180-88348-2	GWC-53	Water	03/28/19 09:48	03/30/19 10:00
180-88348-3	GWC-29	Water	03/28/19 10:30	03/30/19 10:00
180-88348-4	GWC-52	Water	03/28/19 10:43	03/30/19 10:00
180-88348-5	FB-2 (PA)	Water	03/28/19 09:45	03/30/19 10:00
180-88348-6	FD-2 (PA)	Water	03/28/19 00:00	03/30/19 10:00
180-88348-7	EB-2 (PA)	Water	03/28/19 11:00	03/30/19 10:00

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-88291-1**

**Date Collected: 03/27/19 11:30**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 12:34	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:51	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-88291-2**

**Date Collected: 03/27/19 12:35**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:37	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-21**

**Lab Sample ID: 180-88291-3**

**Date Collected: 03/27/19 13:33**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:53	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:58	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-48**

**Date Collected: 03/27/19 13:55**

**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88291-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:09	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-47**

**Date Collected: 03/27/19 14:05**

**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88291-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWA-22**

**Date Collected: 03/27/19 14:29**

**Date Received: 03/29/19 08:50**

**Lab Sample ID: 180-88291-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-46**

**Lab Sample ID: 180-88291-7**

**Date Collected: 03/27/19 14:55**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:56	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: GWC-51**

**Lab Sample ID: 180-88291-8**

**Date Collected: 03/27/19 15:29**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:46	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

**Client Sample ID: FB-1 (PA)**

**Lab Sample ID: 180-88291-9**

**Date Collected: 03/27/19 13:30**

**Matrix: Water**

**Date Received: 03/29/19 08:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:14	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Client Sample ID: FD-1 (PA)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 16:31	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

## Client Sample ID: EB-1 (PA)

Date Collected: 03/27/19 15:15

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:31	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

## Client Sample ID: GWC-50

Date Collected: 03/28/19 09:40

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:28	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:42	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

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# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-53**  
**Date Collected: 03/28/19 09:48**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 06:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:46	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

**Client Sample ID: GWC-29**  
**Date Collected: 03/28/19 10:30**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:44	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:50	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

**Client Sample ID: GWC-52**  
**Date Collected: 03/28/19 10:43**  
**Date Received: 03/30/19 10:00**

**Lab Sample ID: 180-88348-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:51	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Client Sample ID: FB-2 (PA)

Date Collected: 03/28/19 09:45

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

## Client Sample ID: FD-2 (PA)

Date Collected: 03/28/19 00:00

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 10:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

## Client Sample ID: EB-2 (PA)

Date Collected: 03/28/19 11:00

Date Received: 03/30/19 10:00

## Lab Sample ID: 180-88348-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:35	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274732	04/03/19 12:07	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-88291-1**

Date Collected: 03/27/19 11:30

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>9.6</b>		1.0	0.71	mg/L			04/01/19 12:34	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 12:34	1
<b>Sulfate</b>	<b>140</b>		1.0	0.38	mg/L			04/01/19 12:34	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:51	5
<b>Barium</b>	<b>0.057</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:51	5
<b>Boron</b>	<b>0.74</b>		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
<b>Calcium</b>	<b>39</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
<b>Cobalt</b>	<b>0.00083</b>	<b>J</b>	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:51	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:51	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:51	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:51	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:51	5
<b>Vanadium</b>	<b>0.0023</b>	<b>J B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:51	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:51	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>290</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-88291-2**

Date Collected: 03/27/19 12:35

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.9</b>		1.0	0.71	mg/L			04/01/19 13:37	1
<b>Fluoride</b>	<b>0.037</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:37	1
<b>Sulfate</b>	<b>0.56</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 13:37	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:54	5
<b>Barium</b>	<b>0.019</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:54	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
<b>Calcium</b>	<b>15</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:54	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-49**  
Date Collected: 03/27/19 12:35  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.0056</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:54	5
<b>Vanadium</b>	<b>0.021</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:54	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:54	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-21**  
Date Collected: 03/27/19 13:33  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.9</b>		1.0	0.71	mg/L			04/01/19 13:53	1
<b>Fluoride</b>	<b>0.035</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 13:53	1
<b>Sulfate</b>	<b>0.81</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 13:53	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:58	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Calcium</b>	<b>9.5</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Chromium</b>	<b>0.0030</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:58	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:58	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:58	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:58	5
<b>Vanadium</b>	<b>0.0072</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:58	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:58	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-21**

**Lab Sample ID: 180-88291-3**

Date Collected: 03/27/19 13:33

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-88291-4**

Date Collected: 03/27/19 13:55

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 14:09	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 14:09	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 14:09	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:02	5
Barium	0.013		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Calcium	13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:02	5
Chromium	0.0051		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:02	5
Vanadium	0.022	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:02	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-47**

**Lab Sample ID: 180-88291-5**

Date Collected: 03/27/19 14:05

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			04/01/19 14:24	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-47**  
Date Collected: 03/27/19 14:05  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.041	J	0.20	0.026	mg/L			04/01/19 14:24	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:24	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:06	5
Barium	0.026		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:06	5
Chromium	0.0081		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:06	5
Vanadium	0.012	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:06	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-22**  
Date Collected: 03/27/19 14:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			04/01/19 14:40	1
Fluoride	0.036	J	0.20	0.026	mg/L			04/01/19 14:40	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:10	5
Barium	0.022		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
Calcium	7.1		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:10	5
Chromium	0.0078		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:10	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-22**  
Date Collected: 03/27/19 14:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-6**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:10	5
<b>Vanadium</b>	<b>0.0071</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:10	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>76</b>		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWA-46**  
Date Collected: 03/27/19 14:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.7</b>		1.0	0.71	mg/L			04/01/19 14:56	1
<b>Fluoride</b>	<b>0.033</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 14:56	1
<b>Sulfate</b>	<b>0.52</b>	<b>J</b>	1.0	0.38	mg/L			04/01/19 14:56	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Barium</b>	<b>0.021</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Calcium</b>	<b>6.1</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Chromium</b>	<b>0.0048</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:14	5
<b>Vanadium</b>	<b>0.0072</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:09	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWA-46**  
Date Collected: 03/27/19 14:55  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: GWC-51**  
Date Collected: 03/27/19 15:29  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.71	mg/L			04/01/19 15:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:46	1
Sulfate	2.7		1.0	0.38	mg/L			04/01/19 15:46	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:18	5
Barium	0.011		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Calcium	7.0		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:18	5
Nickel	0.0024	J	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:18	5
Vanadium	0.0087	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:18	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:10	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FB-1 (PA)**  
Date Collected: 03/27/19 13:30  
Date Received: 03/29/19 08:50

**Lab Sample ID: 180-88291-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 15:14	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:14	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 15:14	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FB-1 (PA)**

**Lab Sample ID: 180-88291-9**

Date Collected: 03/27/19 13:30

Matrix: Water

Date Received: 03/29/19 08:50

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:22	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:22	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:22	5
<b>Vanadium</b>	<b>0.0036</b>	<b>B</b>	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:22	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

**Client Sample ID: FD-1 (PA)**

**Lab Sample ID: 180-88291-10**

Date Collected: 03/27/19 00:00

Matrix: Water

Date Received: 03/29/19 08:50

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.9</b>		1.0	0.71	mg/L			04/01/19 16:31	1
<b>Fluoride</b>	<b>0.050</b>	<b>J</b>	0.20	0.026	mg/L			04/01/19 16:31	1
<b>Sulfate</b>	<b>1.1</b>		1.0	0.38	mg/L			04/01/19 16:31	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Barium</b>	<b>0.024</b>		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:26	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Calcium</b>	<b>9.6</b>		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:26	5
<b>Chromium</b>	<b>0.0028</b>		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:26	5

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Client Sample ID: FD-1 (PA)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-10

Matrix: Water

### Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0066	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:26	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:18	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L			04/01/19 14:55	1

## Client Sample ID: EB-1 (PA)

Date Collected: 03/27/19 15:15

Date Received: 03/29/19 08:50

## Lab Sample ID: 180-88291-11

Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 15:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 15:30	1

### Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:31	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:31	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:31	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:31	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:31	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:31	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:31	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:31	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:31	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:31	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:31	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:31	5

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:20	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-50**  
Date Collected: 03/28/19 09:40  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/02/19 07:28	1
Fluoride	0.042	J	0.20	0.026	mg/L			04/02/19 07:28	1
Sulfate	0.38	J	1.0	0.38	mg/L			04/02/19 07:28	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:42	5
Barium	0.012		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:42	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Calcium	7.2		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:42	5
Chromium	0.0043		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:42	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:42	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:42	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:42	5
Vanadium	0.0053		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:42	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:42	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-53**  
Date Collected: 03/28/19 09:48  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/02/19 06:40	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 06:40	1
Sulfate	170		1.0	0.38	mg/L			04/02/19 06:40	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:46	5
Barium	0.045		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:46	5
Boron	0.97		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Calcium	18		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cobalt	0.011		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:46	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-53**  
Date Collected: 03/28/19 09:48  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-2**  
Matrix: Water

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Nickel</b>	<b>0.0069</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Vanadium</b>	<b>0.0041</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:46	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:46	5
<b>Zinc</b>	<b>0.013</b>	<b>J</b>	0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:46	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>280</b>		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-29**  
Date Collected: 03/28/19 10:30  
Date Received: 03/30/19 10:00

**Lab Sample ID: 180-88348-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.8</b>		1.0	0.71	mg/L			04/02/19 07:44	1
<b>Fluoride</b>	<b>0.033</b>	<b>J</b>	0.20	0.026	mg/L			04/02/19 07:44	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			04/02/19 07:44	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Barium</b>	<b>0.017</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:50	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Calcium</b>	<b>11</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Chromium</b>	<b>0.0012</b>	<b>J</b>	0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Nickel</b>	<b>0.0038</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:50	5
<b>Vanadium</b>	<b>0.0079</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:50	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:50	5

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-88348-3**

Date Collected: 03/28/19 10:30

Matrix: Water

Date Received: 03/30/19 10:00

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-88348-4**

Date Collected: 03/28/19 10:43

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.71	mg/L			04/02/19 09:51	1
Fluoride	0.039	J	0.20	0.026	mg/L			04/02/19 09:51	1
Sulfate	29		1.0	0.38	mg/L			04/02/19 09:51	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:14	5
Barium	0.014		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Calcium	15		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:14	5
Chromium	0.019		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:14	5
Vanadium	0.010		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:14	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: FB-2 (PA)**

**Lab Sample ID: 180-88348-5**

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/02/19 09:19	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FB-2 (PA)**

**Lab Sample ID: 180-88348-5**

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:19	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:19	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:18	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:18	5
<b>Vanadium</b>	<b>0.0024</b>	<b>J</b>	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:18	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: FD-2 (PA)**

**Lab Sample ID: 180-88348-6**

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11</b>		1.0	0.71	mg/L			04/02/19 10:07	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 10:07	1
<b>Sulfate</b>	<b>160</b>		1.0	0.38	mg/L			04/02/19 10:07	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Barium</b>	<b>0.050</b>		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Boron</b>	<b>0.99</b>		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Calcium</b>	<b>20</b>		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
<b>Cobalt</b>	<b>0.012</b>		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:22	5

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: FD-2 (PA)**

**Lab Sample ID: 180-88348-6**

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:22	5
Nickel	<b>0.0074</b>		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:22	5
Vanadium	<b>0.0029</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Zinc	<b>0.014 J</b>		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:22	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<b>280</b>		10	10	mg/L			04/03/19 11:13	1

**Client Sample ID: EB-2 (PA)**

**Lab Sample ID: 180-88348-7**

Date Collected: 03/28/19 11:00

Matrix: Water

Date Received: 03/30/19 10:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 09:35	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:35	1

**Method: 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:26	5
Vanadium	<b>0.0034</b>		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:26	5

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:16	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

**Client Sample ID: EB-2 (PA)**

**Lab Sample ID: 180-88348-7**

**Date Collected: 03/28/19 11:00**

**Matrix: Water**

**Date Received: 03/30/19 10:00**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-274458/41**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 14:59	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:59	1

**Lab Sample ID: LCS 180-274458/38**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

**Lab Sample ID: 180-88291-8 MS**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWC-51**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.0		25.0	31.2		mg/L		97	80 - 120
Fluoride	<0.026		1.25	1.21		mg/L		97	80 - 120
Sulfate	2.7		25.0	24.3		mg/L		86	80 - 120

**Lab Sample ID: 180-88291-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 274458**

**Client Sample ID: GWC-51**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.0		25.0	31.0		mg/L		96	80 - 120	0	20
Fluoride	<0.026		1.25	1.18		mg/L		94	80 - 120	3	20
Sulfate	2.7		25.0	24.2		mg/L		86	80 - 120	0	20

**Lab Sample ID: MB 180-274459/6**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

**Lab Sample ID: LCS 180-274459/5**  
**Matrix: Water**  
**Analysis Batch: 274459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 180-274532/6**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 05:41	1

**Lab Sample ID: LCS 180-274532/5**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	25.2		mg/L		101	90 - 110

**Lab Sample ID: 180-88348-2 MS**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		25.0	38.1		mg/L		106	80 - 120
Fluoride	<0.026		1.25	1.30		mg/L		104	80 - 120
Sulfate	170		25.0	193	4	mg/L		94	80 - 120

**Lab Sample ID: 180-88348-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 274532**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		25.0	35.5		mg/L		96	80 - 120	7	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	7	20
Sulfate	170		25.0	178	4	mg/L		35	80 - 120	8	20

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:19	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:19	5

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:19	5
Vanadium	0.00311		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:19	5

**Lab Sample ID: MB 400-435792/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 17:15	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 17:15	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 17:15	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 17:15	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 17:15	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 17:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 17:15	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 17:15	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 17:15	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 17:15	5

**Lab Sample ID: LCS 400-435792/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	0.0500	0.0521		mg/L		104	80 - 120
Barium	0.0500	0.0508		mg/L		102	80 - 120
Boron	0.100	0.105		mg/L		105	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	5.00	4.89		mg/L		98	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120
Cobalt	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0478		mg/L		96	80 - 120
Antimony	0.0500	0.0445		mg/L		89	80 - 120
Selenium	0.0500	0.0491		mg/L		98	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120
Nickel	0.0500	0.0504		mg/L		101	80 - 120
Vanadium	0.0500	0.0496		mg/L		99	80 - 120
Silver	0.0500	0.0507		mg/L		101	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 400-435792/2-A**  
**Matrix: Water**  
**Analysis Batch: 435940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435792**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0500	0.0510		mg/L		102	80 - 120
Zinc	0.0500	0.0516		mg/L		103	80 - 120

**Lab Sample ID: MB 400-435838/1-A ^5**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435838**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 17:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 17:19	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 17:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 17:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 17:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 17:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 17:19	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 17:19	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 17:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 17:19	5

**Lab Sample ID: LCS 400-435838/2-A**  
**Matrix: Water**  
**Analysis Batch: 436341**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 435838**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0506		mg/L		101	80 - 120
Barium	0.0500	0.0482		mg/L		96	80 - 120
Boron	0.100	0.0983		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	5.00	4.77		mg/L		95	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Cobalt	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0532		mg/L		106	80 - 120
Antimony	0.0500	0.0516		mg/L		103	80 - 120
Selenium	0.0500	0.0466		mg/L		93	80 - 120
Thallium	0.0100	0.00992		mg/L		99	80 - 120
Nickel	0.0500	0.0498		mg/L		100	80 - 120
Vanadium	0.0500	0.0491		mg/L		98	80 - 120
Silver	0.0500	0.0544		mg/L		109	80 - 120
Copper	0.0500	0.0497		mg/L		99	80 - 120
Zinc	0.0500	0.0475		mg/L		95	80 - 120

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435616/14-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:44	1

Lab Sample ID: LCS 400-435616/15-A  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 180-88291-1 MS  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: GWA-45  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00218		mg/L		108	80 - 120

Lab Sample ID: 180-88291-1 MSD  
Matrix: Water  
Analysis Batch: 435757

Client Sample ID: GWA-45  
Prep Type: Total/NA  
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00213		mg/L		106	80 - 120	2	20

Lab Sample ID: MB 400-435663/14-A  
Matrix: Water  
Analysis Batch: 436068

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 435663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:18	04/05/19 12:58	1

Lab Sample ID: LCS 400-435663/15-A  
Matrix: Water  
Analysis Batch: 436068

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 435663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274516/2  
Matrix: Water  
Analysis Batch: 274516

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
 SDG: PAC Ash

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-274516/1**  
**Matrix: Water**  
**Analysis Batch: 274516**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L		104	80 - 120

**Lab Sample ID: MB 180-274717/2**  
**Matrix: Water**  
**Analysis Batch: 274717**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

**Lab Sample ID: LCS 180-274717/1**  
**Matrix: Water**  
**Analysis Batch: 274717**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	246		mg/L		81	80 - 120

**Lab Sample ID: MB 180-274732/2**  
**Matrix: Water**  
**Analysis Batch: 274732**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

**Lab Sample ID: LCS 180-274732/1**  
**Matrix: Water**  
**Analysis Batch: 274732**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	278		mg/L		91	80 - 120



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## HPLC/IC

### Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-8	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-9	FB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-10	FD-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-11	EB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/38	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MS	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MSD	GWC-51	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-88291-2	GWA-49	Total/NA	Water	EPA 300.0 R2.1	
180-88291-3	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-88291-4	GWA-48	Total/NA	Water	EPA 300.0 R2.1	
180-88291-5	GWA-47	Total/NA	Water	EPA 300.0 R2.1	
180-88291-6	GWA-22	Total/NA	Water	EPA 300.0 R2.1	
180-88291-7	GWA-46	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 274532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-3	GWC-29	Total/NA	Water	EPA 300.0 R2.1	
180-88348-4	GWC-52	Total/NA	Water	EPA 300.0 R2.1	
180-88348-5	FB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-6	FD-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-7	EB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274532/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274532/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MS	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MSD	GWC-53	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 435616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	
180-88291-2	GWA-49	Total/NA	Water	7470A	
180-88291-3	GWA-21	Total/NA	Water	7470A	
180-88291-4	GWA-48	Total/NA	Water	7470A	
180-88291-5	GWA-47	Total/NA	Water	7470A	
180-88291-6	GWA-22	Total/NA	Water	7470A	
180-88291-7	GWA-46	Total/NA	Water	7470A	
180-88291-8	GWC-51	Total/NA	Water	7470A	
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
 SDG: PAC Ash

## Metals (Continued)

### Prep Batch: 435616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	

### Prep Batch: 435663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	
180-88348-2	GWC-53	Total/NA	Water	7470A	
180-88348-3	GWC-29	Total/NA	Water	7470A	
180-88348-4	GWC-52	Total/NA	Water	7470A	
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	435616
180-88291-2	GWA-49	Total/NA	Water	7470A	435616
180-88291-3	GWA-21	Total/NA	Water	7470A	435616
180-88291-4	GWA-48	Total/NA	Water	7470A	435616
180-88291-5	GWA-47	Total/NA	Water	7470A	435616
180-88291-6	GWA-22	Total/NA	Water	7470A	435616
180-88291-7	GWA-46	Total/NA	Water	7470A	435616
180-88291-8	GWC-51	Total/NA	Water	7470A	435616
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	435616
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	435616
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	435616
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	435616
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	435616
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	435616
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	435616

### Prep Batch: 435792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	3005A	
180-88291-2	GWA-49	Total Recoverable	Water	3005A	
180-88291-3	GWA-21	Total Recoverable	Water	3005A	
180-88291-4	GWA-48	Total Recoverable	Water	3005A	
180-88291-5	GWA-47	Total Recoverable	Water	3005A	
180-88291-6	GWA-22	Total Recoverable	Water	3005A	
180-88291-7	GWA-46	Total Recoverable	Water	3005A	
180-88291-8	GWC-51	Total Recoverable	Water	3005A	
180-88291-9	FB-1 (PA)	Total Recoverable	Water	3005A	
180-88291-10	FD-1 (PA)	Total Recoverable	Water	3005A	
180-88291-11	EB-1 (PA)	Total Recoverable	Water	3005A	
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## Metals

### Prep Batch: 435838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	3005A	
180-88348-2	GWC-53	Total Recoverable	Water	3005A	
180-88348-3	GWC-29	Total Recoverable	Water	3005A	
180-88348-4	GWC-52	Total Recoverable	Water	3005A	
180-88348-5	FB-2 (PA)	Total Recoverable	Water	3005A	
180-88348-6	FD-2 (PA)	Total Recoverable	Water	3005A	
180-88348-7	EB-2 (PA)	Total Recoverable	Water	3005A	
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	6020	435792
180-88291-2	GWA-49	Total Recoverable	Water	6020	435792
180-88291-3	GWA-21	Total Recoverable	Water	6020	435792
180-88291-4	GWA-48	Total Recoverable	Water	6020	435792
180-88291-5	GWA-47	Total Recoverable	Water	6020	435792
180-88291-6	GWA-22	Total Recoverable	Water	6020	435792
180-88291-7	GWA-46	Total Recoverable	Water	6020	435792
180-88291-8	GWC-51	Total Recoverable	Water	6020	435792
180-88291-9	FB-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-10	FD-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-11	EB-1 (PA)	Total Recoverable	Water	6020	435792
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	6020	435792

### Analysis Batch: 436068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	435663
180-88348-2	GWC-53	Total/NA	Water	7470A	435663
180-88348-3	GWC-29	Total/NA	Water	7470A	435663
180-88348-4	GWC-52	Total/NA	Water	7470A	435663
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	435663
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	435663
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	435663
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	435663
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	435663

### Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	6020	435838
180-88348-2	GWC-53	Total Recoverable	Water	6020	435838
180-88348-3	GWC-29	Total Recoverable	Water	6020	435838
180-88348-4	GWC-52	Total Recoverable	Water	6020	435838
180-88348-5	FB-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-6	FD-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-7	EB-2 (PA)	Total Recoverable	Water	6020	435838
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	6020	435838
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	6020	435838

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1  
SDG: PAC Ash

## General Chemistry

### Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	SM 2540C	
180-88291-2	GWA-49	Total/NA	Water	SM 2540C	
180-88291-3	GWA-21	Total/NA	Water	SM 2540C	
180-88291-4	GWA-48	Total/NA	Water	SM 2540C	
180-88291-5	GWA-47	Total/NA	Water	SM 2540C	
180-88291-6	GWA-22	Total/NA	Water	SM 2540C	
180-88291-7	GWA-46	Total/NA	Water	SM 2540C	
180-88291-8	GWC-51	Total/NA	Water	SM 2540C	
180-88291-9	FB-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-10	FD-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-11	EB-1 (PA)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	SM 2540C	
180-88348-2	GWC-53	Total/NA	Water	SM 2540C	
180-88348-3	GWC-29	Total/NA	Water	SM 2540C	
180-88348-4	GWC-52	Total/NA	Water	SM 2540C	
180-88348-5	FB-2 (PA)	Total/NA	Water	SM 2540C	
180-88348-6	FD-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274717/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274717/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 274732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-7	EB-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274732/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274732/1	Lab Control Sample	Total/NA	Water	SM 2540C	



**TestAmerica Pittsburgh**

301 Alpha Drive  
 RIDC Park  
 Pittsburgh, PA 15238-2907  
 phone 412.963.7058 fax 412.963.2468

**Chain of Custody Record**

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program:  DW  NPDES  RCRA  Other:

TestAmerica Laboratories, Inc.

<b>Client Contact</b>		<b>Project Manager: Dawn Prell</b>		<b>Site Contact: Karim Minkara</b>		<b>Date: 3/28/19</b>		<b>COC No:</b>	
Joju Abraham		Tel/Fax: 248-536-5445		Lab Contact: Veronica Bortot		Carrier:		2 of 2 COCs	
Southern Company		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn Cl, F, SO4, TDS				Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
241 Ralph McGill Blvd SE B10185		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS							
Atlanta, GA 30308		TAT if different from Below 3-5 days							
JAbraham@southernco.com		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: CCR - Plant Scherer PAC Ash Cell									
Site: Georgia									
P O # 18019884									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWA-45	3/27/2019	11:30	G	Water	2			X	X
GWA-49	3/27/2019	12:35	G	Water	2			X	X
GWA-21	3/27/2019	13:33	G	Water	2			X	X
GWA-48	3/27/2019	13:55	G	Water	2			X	X
GWA-47	3/27/2019	14:05	G	Water	2			X	X
GWA-22	3/27/2019	14:29	G	Water	2			X	X
GWA-46	3/27/2019	14:55	G	Water	2			X	X
GWC-51	3/27/2019	15:49	G	Water	2			X	X
FB-1 (PA)	3/27/2019	13:30	G	Water	2			X	X
FD-1 (PA)	3/27/2019	--	G	Water	2			X	X
EB-1 (PA)	3/27/2019	15:15	G	Water	2			X	X

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Chris Towell	Company: Calder	Date/Time: 3-28-19 7:59	Received by: Elaine Cook	Company: COBALT
Relinquished by: Elaine Cook	Company: Calder	Date/Time: 3/28/19 10:00	Received by: [Signature]	Company: PA
Relinquished by: [Signature]	Company: TA 16110	Date/Time:	Received in Laboratory by: [Signature]	Company: JADITH



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4/15/2019





TestAmerica Pittsburgh

301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238-2907  
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b> Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com	<b>Project Manager: Dawn Prell</b> Tel/Fax: 248-536-5445	<b>Site Contact: Karim Minkara</b> Lab Contact: Veronica Bortot	<b>Date: 3/29/19</b> Carrier:	<b>COC No:</b> 1 of 1 COCs
<b>Analysis Turnaround Time</b> <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below 3-5 days <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>For Lab Use Only:</b> Walk-in Client: Lab Sampling: Job / SDG No.:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS	Sample Specific Notes:
GWC-50	3/28/2019	9:40	G	Water	2		X	X		
GWC-53	3/28/2019	9:48	G	Water	2		X	X		
GWC-29	3/28/2019	10:30	G	Water	2		X	X		
GWC-52	3/28/2019	10:43	G	Water	2		X	X		
FB-2(PA)	3/28/2019	09:45	G	Water	2		X	X		
FD-2 (PA)	3/28/2019	--	G	Water	2		X	X		
EB-2 (PA)	3/28/2019	11:00	G	Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		



**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Chris Tidwell</i>	Company: <i>Coalder</i>	Date/Time: <i>3-29-19 @H10</i>	Received by: <i>[Signature]</i>	Company: <i>TGA</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/29/19</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____

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4/15/2019





Package  
US Airbill

Tracking Number 8116 7091 8535

Q200

Express Package Servi

301 Alpha Dr  
RIDE Park  
Pittsburgh

FedEx First Overnight

FedEx Standard Overnight

Declared value limit

Special Handling and Deli

Signature Delivery

No Signature Required

One box must be opened

Payment Bill to

Sender

Total Packages Total Weight

Rate limited to US\$100

392645 TESTING

RT 97  
FZ  
15:00  
8535  
03-29

180-88291 Waybill

FRI - 29 MAR AA  
STANDARD OVERNIGHT

15238  
PA-US  
PIT

GCA

corrected temp  
ermometer ID

7.9 °C  
10  
Initials T

WI-SR-001 effective 11/8/18  
MGEA 553C1/45D3/0C8

644



**FedEx** Package  
Express US Airbill

FedEx Tracking Number  
8116 7091 8524

Form ID No. 0200

4 Express Package Service \* To net \*

Next Business Day

- FedEx First Overnight  
Business Day delivery. Delivery on Saturdays. Friday afternoon delivery is not available. Delivery is not available to Alaska, Hawaii, Puerto Rico, and U.S. territories.
- FedEx Priority Overnight  
Business Day delivery. Delivery on Saturdays. Delivery is not available to Alaska, Hawaii, Puerto Rico, and U.S. territories.
- FedEx Standard Overnight  
Business Day delivery. Delivery on Saturdays. Delivery is not available to Alaska, Hawaii, Puerto Rico, and U.S. territories.

5 Packaging  
 Fragile  
 Signature Required  
 Signature Required for Delivery

6 Special Handling and Delivery Signature  
 Saturday Delivery  
 Signature Required for Delivery

7 Payment Bill to:  
 Sender  
 Recipient  
 Third Party

Does this shipment contain dangerous goods?  
 No  
 Yes  
If yes, specify the hazard class, label, and quantity. See the current FedEx Service Guide for restrictions.

Total Packages: 1  
Total Weight: 25 lbs.

Your liability is limited to USD300 unless you declare a higher value. See the current FedEx Guide for details.  
Rev. Date: 2015 • Part #17002 • ©2015 FedEx • PRINTED IN U.S.A. R00

1 From  
Date: \_\_\_\_\_  
Sender's Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

2 Your Internal Billing Reference: \_\_\_\_\_

3 To  
Recipient's Name: Sample Control  
Company: TA Pittsburgh  
Address: 301 Alpha Dr.  
City: RIDE Park  
State: PA ZIP: 15238

FRI - 29 MAR AA  
STANDARD OVERNIGHT

15238  
PA-US  
PIT



Uncorrected temp Thermometer ID  
CF 0 Initials BS

NA AGCA

FedEx  
TRK# 8116 7091 8524

PT-WI-SR-001 effective 11/8/18  
429154 28MAR19 M5EA 553C1/4603/0C8A





merica

FR IN ENVIRONMENTAL TESTING



ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
3500 MCDONOUGH DRIVE  
MORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 29MAR19  
ACTWGT: 59.20 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

TO: **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**  
**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: **GOLDER**



1 of 3  
TRK# 0201 4651 0081 0450  
## MASTER ##

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**VO AGCA**

Uncorrected temp  
Thermometer ID

15238  
PA-US PIT

CF 0 Initials TS

PT-WL-SR-001 effective 11/8/18



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



RT 639  
5 12:00  
03:30 0460  
**TestAm**

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 29MAR19  
ACTWT: 53.20 LB  
CAD: 859116/CAFE3211

BILL RECEIPT

ORIGIN ID: MULA (578) 966-9991  
TAYLOR  
GEORGE WYCA ATLANTA  
TEST AMERICA DRIVE  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30054  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 15238**

(412) 983-7058  
REF: **GOLDER**



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

12 013  
MPS# 4651 0081 0460  
0263  
Mstr# 4651 0681 0450

**XO AGCA**

15238  
PIT  
PA-US

Uncorrected temp 3.1 °C  
Thermometer ID 10

CF 0 Initials B

PT-WI-SR-001 effective 11/8/18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: MULA (678) 966-9991  
GEORGE TAYLOR  
TEST AMERICA ATLANTA  
6500 MCDONOUGH DRIVE  
NORCROSS, GA 30093  
UNITED STATES US

SHIP DATE: 29MAR19  
ACTWGT: 53.20 LB  
CAD: 859116/CAFE3211

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TA PITTSBURGH**  
**301 ALPHA DRIVE**

**PITTSBURGH PA 15238**  
(412) 963-7068  
REF: **GOLDER**



3 of 3  
MPS# 4651 0081 0471  
0263  
Mstr# 4651 0081 0450

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

0201

# XO AGCA

15238  
PA-US PIT

Uncorrected temp 4.8 °C  
Thermometer ID 10  
CF 0 Initials JS



PT-JW-SR-001 effective 11/8/18





**TestAmerica Pittsburgh**

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

**Chain of Custody Record**



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:						
Client Contact: Shipping/Receiving				Phone:	Bortot, Veronica	180-358762.1							
Company: TestAmerica Laboratories, Inc.					E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 2						
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/4/2019	Accreditations Required (See note):		Job #: 180-88291-1						
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer				TAT Requested (days):	<b>Analysis Requested</b>		<b>Preservation Codes:</b>						
Project #: 18019884 SSOW#:				PO #:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_PreP 6020/3005A (MOD) Appendix III & IV		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA						
WO #:							M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
<b>Sample Identification - Client ID (Lab ID)</b>				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A_PreP	6020/3005A (MOD) Appendix III & IV	Total Number of containers	Special Instructions/Note:
GWA-45 (180-88291-1)				3/27/19	11:30 Eastern		Water		X	X		1	
GWA-49 (180-88291-2)				3/27/19	12:35 Eastern		Water		X	X		1	
GWA-21 (180-88291-3)				3/27/19	13:33 Eastern		Water		X	X		1	
GWA-48 (180-88291-4)				3/27/19	13:55 Eastern		Water		X	X		1	
GWA-47 (180-88291-5)				3/27/19	14:05 Eastern		Water		X	X		1	
GWA-22 (180-88291-6)				3/27/19	14:29 Eastern		Water		X	X		1	
GWA-46 (180-88291-7)				3/27/19	14:55 Eastern		Water		X	X		1	
GWC-51 (180-88291-8)				3/27/19	15:29 Eastern		Water		X	X		1	
FB-1 (PA) (180-88291-9)				3/27/19	13:30 Eastern		Water		X	X		1	
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.													
<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>									
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2				Special Instructions/QC Requirements:					
Empty Kit Relinquished by:				Date:	Time:	Method of Shipment:							
Relinquished by: <i>[Signature]</i>				Date/Time: 4/1/19 1700	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>		Date/Time: 4.2.19 0859	Company: <i>[Signature]</i>				
Relinquished by:				Date/Time:	Company:	Received by:		Date/Time:	Company:				
Relinquished by:				Date/Time:	Company:	Received by:		Date/Time:	Company:				
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c									

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4/15/2019



TestAmerica Pittsburgh

301 Alpha Drive RIDC Park  
Pittsburgh, PA 15238  
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>				Sampler:		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-358762.2		
Client Contact: Shipping/Receiving				Phone:		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 2 of 2		
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):				Job #: 180-88291-1				
Address: 3355 McLemore Drive,			Due Date Requested: 4/4/2019		<b>Analysis Requested</b>						<b>Preservation Codes:</b> A - HCL                    M - Hexane B - NaOH                 N - None C - Zn Acetate          O - AsNaO2 D - Nitric Acid          P - Na2O4S E - NaHSO4              Q - Na2SO3 F - MeOH                R - Na2S2O3 G - Amchlor            S - H2SO4 H - Ascorbic Acid      T - TSP Dodecahydrate I - Ice                     U - Acetone J - DI Water             V - MCAA K - EDTA                 W - pH 4-5 L - EDA                    Z - other (specify)  Other:	
City: Pensacola		TAT Requested (days):										
State, Zip: FL, 32514		PO #:										
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		WO #:										
Email:		Project #: 18019884										
Project Name: CCR - Plant Scherer				SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		
Site: CCR Plant Scherer			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)			Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers		Special Instructions/Note:	
FD-1 (PA) (180-88291-10)			3/27/19		Eastern		Water		1		Special Instructions/Note:	
EB-1 (PA) (180-88291-11)			3/27/19		15:15 Eastern		Water		1		Special Instructions/Note:	
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I</p>												
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>						
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:			Date:			Time:			Method of Shipment:			
			4/11/19 1700			TA						
Relinquished by:			Date/Time:			Company:			Date/Time:			
Relinquished by:			Date/Time:			Company:			Date/Time:			
Custody Seals Intact: △ Yes △ No			Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 12.5 <sup>°c</sup> , 13.5 <sup>°c</sup> , 13.2 <sup>°c</sup>						

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4/15/2019



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88291**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88291**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 12:51 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88348**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Say, Thomas C**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

**Login Number: 88348**

**List Number: 2**

**Creator: Brown, Nathan**

**List Source: Eurofins TestAmerica, Pensacola**

**List Creation: 04/02/19 12:57 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**ATTACHMENT**

# 2nd SEMI-ANNUAL 2019 ANALYTICAL RESULTS

**ANALYTICAL RESULTS**

**CELL 1**

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95563-1  
Laboratory Sample Delivery Group: Cell 1 LF  
Client Project/Site: CCR - Plant Scherer

For:  
Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 11:45:52 AM

Veronica Bortot, Senior Project Manager  
(412)963-2435  
[veronica.bortot@testamericainc.com](mailto:veronica.bortot@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

---

**Job ID: 180-95563-1**

---

**Laboratory: Eurofins TestAmerica, Pittsburgh**

---

## Narrative

### Job Narrative 180-95563-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/12/2019 9:00 AM, 9/13/2019 9:00 AM and 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.4° C, 1.9° C, 3.1° C and 3.4° C.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Methods 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-292548 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Methods 6020, 6020A: The continuing calibration verification (CCV) associated with batch 180-292548 recovered above the upper control limit for beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
 SDG: Cell 1 LF

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20



# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95563-1	GWC-1	Water	09/10/19 13:40	09/12/19 09:00	
180-95563-2	GWC-2	Water	09/10/19 15:00	09/12/19 09:00	
180-95563-3	GWC-3	Water	09/10/19 12:17	09/12/19 09:00	
180-95563-4	GWC-4	Water	09/10/19 15:45	09/12/19 09:00	
180-95563-5	GWA-15	Water	09/10/19 12:00	09/12/19 09:00	
180-95563-6	GWA-16	Water	09/10/19 14:23	09/12/19 09:00	
180-95563-7	GWA-17	Water	09/10/19 15:35	09/12/19 09:00	
180-95563-8	EB-1(LF)	Water	09/10/19 16:40	09/12/19 09:00	
180-95563-9	FB-1(LF)	Water	09/10/19 15:44	09/12/19 09:00	
180-95563-10	FD-1(LF)	Water	09/10/19 00:00	09/12/19 09:00	
180-95639-1	GWC-5	Water	09/11/19 09:35	09/13/19 09:00	
180-95639-2	GWC-6	Water	09/11/19 10:50	09/13/19 09:00	
180-95639-3	GWC-7	Water	09/11/19 11:53	09/13/19 09:00	
180-95639-4	GWC-8A	Water	09/11/19 10:55	09/13/19 09:00	
180-95639-5	GWC-9	Water	09/11/19 13:00	09/13/19 09:00	
180-95639-6	GWC-10	Water	09/11/19 15:50	09/13/19 09:00	
180-95639-7	GWC-11	Water	09/11/19 14:30	09/13/19 09:00	
180-95639-8	GWC-12	Water	09/11/19 13:00	09/13/19 09:00	
180-95639-9	GWC-13	Water	09/11/19 14:12	09/13/19 09:00	
180-95639-10	GWC-14	Water	09/11/19 14:35	09/13/19 09:00	
180-95639-11	GWC-18	Water	09/11/19 13:12	09/13/19 09:00	
180-95639-12	FD-2(LF)	Water	09/11/19 00:00	09/13/19 09:00	
180-95639-13	FB-2(LF)	Water	09/11/19 10:00	09/13/19 09:00	
180-95639-14	EB-2(LF)	Water	09/11/19 16:40	09/13/19 09:00	
180-95737-1	GWC-19	Water	09/12/19 09:45	09/14/19 09:45	
180-95737-2	GWC-20	Water	09/12/19 11:10	09/14/19 09:45	

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-1**  
**Date Collected: 09/10/19 13:40**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:18	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 21:58	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:33	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

**Client Sample ID: GWC-2**  
**Date Collected: 09/10/19 15:00**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:09	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:34	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

**Client Sample ID: GWC-3**  
**Date Collected: 09/10/19 12:17**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 21:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:12	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:35	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291269	09/13/19 12:59	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-4**  
**Date Collected: 09/10/19 15:45**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 22:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:15	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:36	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291320	09/14/19 09:05	AVS	TAL PIT

**Client Sample ID: GWA-15**  
**Date Collected: 09/10/19 12:00**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 22:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291656	09/17/19 15:26	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293231	09/29/19 22:19	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291320	09/14/19 09:05	AVS	TAL PIT

**Client Sample ID: GWA-16**  
**Date Collected: 09/10/19 14:23**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 23:33	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:05	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:41	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-17**  
**Date Collected: 09/10/19 15:35**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/16/19 23:48	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:08	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:17	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:42	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: EB-1(LF)**  
**Date Collected: 09/10/19 16:40**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:03	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:12	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:18	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: FB-1(LF)**  
**Date Collected: 09/10/19 15:44**  
**Date Received: 09/12/19 09:00**

**Lab Sample ID: 180-95563-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:17	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:15	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:18	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:44	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

**Date Collected: 09/10/19 00:00**

**Matrix: Water**

**Date Received: 09/12/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			291418	09/17/19 00:32	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291661	09/17/19 16:03	KAK	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292857	09/26/19 12:18	WTR	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	292677	09/25/19 16:19	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293023	09/27/19 14:45	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291355	09/14/19 10:15	AVS	TAL PIT

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95639-1**

**Date Collected: 09/11/19 09:35**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 09:57	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:17	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:07	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:31	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-6**

**Lab Sample ID: 180-95639-2**

**Date Collected: 09/11/19 10:50**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 10:13	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:20	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:10	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:38	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-6**  
**Date Collected: 09/11/19 10:50**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-7**  
**Date Collected: 09/11/19 11:53**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:00	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:24	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:13	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:40	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-8A**  
**Date Collected: 09/11/19 10:55**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:16	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:27	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:17	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:41	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-9**  
**Date Collected: 09/11/19 13:00**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:32	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:30	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:20	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:42	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291463	09/16/19 11:39	PM	TAL PIT

**Client Sample ID: GWC-10**  
**Date Collected: 09/11/19 15:50**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 11:48	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:34	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:23	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:43	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-11**  
**Date Collected: 09/11/19 14:30**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 12:04	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:37	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:27	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-11**  
**Date Collected: 09/11/19 14:30**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:44	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Client Sample ID: GWC-12**  
**Date Collected: 09/11/19 13:00**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			291680	09/18/19 12:19	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292548	09/24/19 16:41	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292716	09/25/19 15:30	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:46	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

**Client Sample ID: GWC-13**  
**Date Collected: 09/11/19 14:12**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			291680	09/18/19 12:35	MJH	TAL PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292548	09/24/19 16:44	RSK	TAL PIT
		Instrument ID: A								
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			292716	09/25/19 15:34	RSK	TAL PIT
		Instrument ID: A								
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293551	10/02/19 16:47	RJR	TAL PIT
		Instrument ID: HGY								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT
		Instrument ID: NOEQUIP								

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-14**  
**Date Collected: 09/11/19 14:35**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 13:23	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:48	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:44	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:48	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-18**  
**Date Collected: 09/11/19 13:12**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-11**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 14:10	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292548	09/24/19 16:58	RSK	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291943	09/19/19 12:41	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292716	09/25/19 15:47	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:53	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: FD-2(LF)**  
**Date Collected: 09/11/19 00:00**  
**Date Received: 09/13/19 09:00**

**Lab Sample ID: 180-95639-12**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			291680	09/18/19 14:26	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:30	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:54	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

**Date Collected: 09/11/19 00:00**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: FB-2(LF)**

**Lab Sample ID: 180-95639-13**

**Date Collected: 09/11/19 10:00**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			294038	10/08/19 05:49	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:33	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:55	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: EB-2(LF)**

**Lab Sample ID: 180-95639-14**

**Date Collected: 09/11/19 16:40**

**Matrix: Water**

**Date Received: 09/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292035	09/20/19 22:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	291941	09/19/19 12:36	MWW	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			292150	09/20/19 17:37	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293395	10/01/19 17:58	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGY		1			293551	10/02/19 16:56	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291605	09/17/19 11:51	AVS	TAL PIT

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

**Date Collected: 09/12/19 09:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2000		1			292203	09/22/19 17:37	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			293025	09/27/19 17:46	WTR	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

**Date Collected: 09/12/19 09:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:38	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: GWC-20**

**Lab Sample ID: 180-95737-2**

**Date Collected: 09/12/19 11:10**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			292203	09/22/19 18:22	CMR	TAL PIT
Instrument ID: CHICS2000										
Total Recoverable	Prep	3005A			50 mL	50 mL	292487	09/24/19 14:33	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			293025	09/27/19 17:49	WTR	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293530	10/02/19 15:35	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 13:39	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291934	09/19/19 12:24	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Laboratory References:**

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

**Analyst References:**

Lab: TAL PIT

Batch Type: Prep

- KAK = Kayla Kalamasz
- MWW = Margaret Wanyoike
- NAM = Nicole Marfisi

Batch Type: Analysis

- AVS = Abbey Smith
- CMR = Carl Reagle
- MJH = Matthew Hartman
- PM = Paloma Hoelzle
- RJR = Ron Rosenbaum
- RSK = Robert Kurtz
- WTR = Bill Reinheimer

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-1**  
Date Collected: 09/10/19 13:40  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-1**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			09/16/19 21:18	1
Fluoride	0.077	J	0.10	0.026	mg/L			09/16/19 21:18	1
Sulfate	0.69	J	1.0	0.38	mg/L			09/16/19 21:18	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 21:58	1
Arsenic	0.00033	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 21:58	1
Barium	0.046		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 21:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 21:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 21:58	1
Chromium	0.018		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 21:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 21:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 21:58	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 21:58	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 21:58	1
Nickel	0.00065	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 21:58	1
Vanadium	0.020		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 21:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 21:58	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 21:58	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 21:58	1
Calcium	17		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 21:58	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 21:58	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-2**  
Date Collected: 09/10/19 15:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			09/16/19 21:33	1
Fluoride	0.048	J	0.10	0.026	mg/L			09/16/19 21:33	1
Sulfate	0.63	J	1.0	0.38	mg/L			09/16/19 21:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00042	J	0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:09	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:09	1
Barium	0.047		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:09	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:09	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:09	1

Eurofins TestAmerica, Pittsburgh



# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-2**  
Date Collected: 09/10/19 15:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-2**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chromium</b>	<b>0.014</b>		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Cobalt</b>	<b>0.00015</b>	<b>J</b>	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:09	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:09	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:09	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:09	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:09	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Nickel</b>	<b>0.0022</b>		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Vanadium</b>	<b>0.018</b>		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:09	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:09	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Zinc</b>	<b>0.0040</b>	<b>J</b>	0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:09	1
<b>Calcium</b>	<b>18</b>		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:09	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:09	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>140</b>		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-3**  
Date Collected: 09/10/19 12:17  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-3**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			09/16/19 21:48	1
<b>Fluoride</b>	<b>0.058</b>	<b>J</b>	0.10	0.026	mg/L			09/16/19 21:48	1
<b>Sulfate</b>	<b>0.70</b>	<b>J</b>	1.0	0.38	mg/L			09/16/19 21:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Arsenic</b>	<b>0.00032</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Barium</b>	<b>0.014</b>		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Chromium</b>	<b>0.0092</b>		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Cobalt</b>	<b>0.00028</b>	<b>J</b>	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:12	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Nickel</b>	<b>0.0016</b>		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Vanadium</b>	<b>0.0078</b>		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:12	1
<b>Copper</b>	<b>0.0011</b>	<b>J</b>	0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:12	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-3**  
Date Collected: 09/10/19 12:17  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-3**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0069		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:12	1
Calcium	6.6		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:12	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:12	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			09/13/19 12:59	1

**Client Sample ID: GWC-4**  
Date Collected: 09/10/19 15:45  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.71	mg/L			09/16/19 22:33	1
Fluoride	0.097	J	0.10	0.026	mg/L			09/16/19 22:33	1
Sulfate	1.7		1.0	0.38	mg/L			09/16/19 22:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:15	1
Arsenic	0.00032	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:15	1
Barium	0.037		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:15	1
Chromium	0.0067		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:15	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:15	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:15	1
Nickel	0.00079	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:15	1
Vanadium	0.0086		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:15	1
Copper	0.0017	J	0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:15	1
Zinc	0.0060		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:15	1
Calcium	12		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:15	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	93		10	10	mg/L			09/14/19 09:05	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-15**  
Date Collected: 09/10/19 12:00  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.2		1.0	0.71	mg/L			09/16/19 22:48	1
Fluoride	<0.026		0.10	0.026	mg/L			09/16/19 22:48	1
Sulfate	0.65	J	1.0	0.38	mg/L			09/16/19 22:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 22:19	1
Arsenic	0.00032	J	0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 22:19	1
Barium	0.011		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 22:19	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 22:19	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 22:19	1
Chromium	0.0023	J	0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Cobalt	0.0012	J	0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 22:19	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 22:19	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 22:19	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 22:19	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 22:19	1
Nickel	0.00081	J	0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 22:19	1
Vanadium	0.0022		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 22:19	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 22:19	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 22:19	1
Zinc	0.0060		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 22:19	1
Calcium	4.8		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 22:19	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 22:19	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		10	10	mg/L			09/14/19 09:05	1

**Client Sample ID: GWA-16**  
Date Collected: 09/10/19 14:23  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-6**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.4		1.0	0.71	mg/L			09/16/19 23:33	1
Fluoride	0.047	J	0.10	0.026	mg/L			09/16/19 23:33	1
Sulfate	<0.38		1.0	0.38	mg/L			09/16/19 23:33	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:05	1
Arsenic	0.00049	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:05	1
Barium	0.039	B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:05	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:05	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-16**

**Lab Sample ID: 180-95563-6**

Date Collected: 09/10/19 14:23

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0076		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Cobalt	0.00031	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:05	1
Lead	0.00016	J	0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:05	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Thallium	0.00021	J	0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:05	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:05	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:05	1
Nickel	0.00037	J	0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:05	1
Vanadium	0.010		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:05	1
Copper	0.00095	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:05	1
Zinc	0.0047	J	0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:05	1
Calcium	12		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:05	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:05	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	75		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: GWA-17**

**Lab Sample ID: 180-95563-7**

Date Collected: 09/10/19 15:35

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			09/16/19 23:48	1
Fluoride	0.046	J	0.10	0.026	mg/L			09/16/19 23:48	1
Sulfate	0.44	J	1.0	0.38	mg/L			09/16/19 23:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:08	1
Arsenic	0.00069	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:08	1
Barium	0.051	B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:08	1
Cadmium	0.00013	J	0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:08	1
Chromium	0.012		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Cobalt	0.00052	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:08	1
Lead	0.00022	J	0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:08	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Thallium	0.00023	J	0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:08	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:08	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:08	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:08	1
Vanadium	0.0091		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:08	1
Copper	0.0012	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWA-17**  
Date Collected: 09/10/19 15:35  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-7**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0084		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:08	1
Calcium	7.5		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:08	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:08	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: EB-1(LF)**

Date Collected: 09/10/19 16:40  
Date Received: 09/12/19 09:00

**Lab Sample ID: 180-95563-8**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/17/19 00:03	1
Fluoride	<0.026		0.10	0.026	mg/L			09/17/19 00:03	1
Sulfate	<0.38		1.0	0.38	mg/L			09/17/19 00:03	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:12	1
Arsenic	0.00049	J	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:12	1
Barium	0.0072	J B	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:12	1
Chromium	0.0032		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Cobalt	0.000080	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:12	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:12	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:12	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:12	1
Vanadium	0.0022		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:12	1
Copper	0.00066	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:12	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:12	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:12	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:12	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:18	09/27/19 14:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FB-1(LF)**

**Lab Sample ID: 180-95563-9**

Date Collected: 09/10/19 15:44

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/17/19 00:17	1
Fluoride	<0.026		0.10	0.026	mg/L			09/17/19 00:17	1
Sulfate	<0.38		1.0	0.38	mg/L			09/17/19 00:17	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Barium</b>	<b>0.0053</b>	<b>J B</b>	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:15	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:15	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Chromium</b>	<b>0.0030</b>		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:15	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:15	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:15	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:15	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:15	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:15	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:15	1
<b>Copper</b>	<b>0.00067</b>	<b>J</b>	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:15	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:15	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:15	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:15	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:18	09/27/19 14:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

Date Collected: 09/10/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2.5</b>		1.0	0.71	mg/L			09/17/19 00:32	1
<b>Fluoride</b>	<b>0.054</b>	<b>J</b>	0.10	0.026	mg/L			09/17/19 00:32	1
<b>Sulfate</b>	<b>0.70</b>	<b>J</b>	1.0	0.38	mg/L			09/17/19 00:32	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Arsenic</b>	<b>0.00041</b>	<b>J</b>	0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Barium</b>	<b>0.028</b>	<b>B</b>	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 12:18	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 12:18	1
<b>Cadmium</b>	<b>0.00024</b>	<b>J</b>	0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 12:18	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-1(LF)**

**Lab Sample ID: 180-95563-10**

Date Collected: 09/10/19 00:00

Matrix: Water

Date Received: 09/12/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0095		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Cobalt	0.00021	J	0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 12:18	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 12:18	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 12:18	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 12:18	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 12:18	1
Nickel	0.00095	J	0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 12:18	1
Vanadium	0.0076		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 12:18	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 12:18	1
Copper	0.00092	J	0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 12:18	1
Zinc	0.0046	J	0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 12:18	1
Calcium	7.0		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 12:18	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 12:18	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:19	09/27/19 14:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	51		10	10	mg/L			09/14/19 10:15	1

**Client Sample ID: GWC-5**

**Lab Sample ID: 180-95639-1**

Date Collected: 09/11/19 09:35

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19		1.0	0.71	mg/L			09/18/19 09:57	1
Fluoride	0.045	J	0.10	0.026	mg/L			09/18/19 09:57	1
Sulfate	130		1.0	0.38	mg/L			09/18/19 09:57	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:17	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:17	1
Barium	0.039		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:17	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:17	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:17	1
Chromium	0.0079		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Cobalt	0.000099	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:17	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:17	1
Selenium	0.0079		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:17	1
Nickel	0.00070	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:17	1
Vanadium	0.0047		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:17	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:17	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:17	1
Zinc	0.0074		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:17	1
Calcium	46		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:17	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-5**  
Date Collected: 09/11/19 09:35  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-1**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.31		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:07	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-6**  
Date Collected: 09/11/19 10:50  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.71	mg/L			09/18/19 10:13	1
Fluoride	0.058	J	0.10	0.026	mg/L			09/18/19 10:13	1
Sulfate	12		1.0	0.38	mg/L			09/18/19 10:13	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:20	1
Arsenic	0.00041	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:20	1
Barium	0.059		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:20	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:20	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:20	1
Chromium	0.0078		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Cobalt	0.000087	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:20	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:20	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:20	1
Nickel	0.00099	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:20	1
Vanadium	0.012		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:20	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:20	1
Copper	0.00066	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:20	1
Zinc	0.0062		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:20	1
Calcium	19		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:20	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:10	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			09/16/19 11:39	1

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-7**

**Lab Sample ID: 180-95639-3**

Date Collected: 09/11/19 11:53

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.1		1.0	0.71	mg/L			09/18/19 11:00	1
Fluoride	0.057	J	0.10	0.026	mg/L			09/18/19 11:00	1
Sulfate	0.52	J	1.0	0.38	mg/L			09/18/19 11:00	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:24	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:24	1
Barium	0.035		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:24	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:24	1
Chromium	0.013		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Cobalt	0.00016	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:24	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:24	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:24	1
Nickel	0.00046	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:24	1
Vanadium	0.015		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:24	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:24	1
Copper	0.00086	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:24	1
Zinc	0.0074		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:24	1
Calcium	14		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:24	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:13	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-95639-4**

Date Collected: 09/11/19 10:55

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.71	mg/L			09/18/19 11:16	1
Fluoride	0.071	J	0.10	0.026	mg/L			09/18/19 11:16	1
Sulfate	32		1.0	0.38	mg/L			09/18/19 11:16	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:27	1
Arsenic	0.0010	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:27	1
Barium	0.022		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:27	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:27	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:27	1
Chromium	0.0052		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:27	1
Cobalt	0.00085	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:27	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-8A**

**Lab Sample ID: 180-95639-4**

Date Collected: 09/11/19 10:55

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:27	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:27	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Nickel</b>	<b>0.0013</b>		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Vanadium</b>	<b>0.0042</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:27	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:27	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Zinc</b>	<b>0.0052</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Calcium</b>	<b>37</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:27	1
<b>Boron</b>	<b>0.21</b>		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:17	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>210</b>		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-95639-5**

Date Collected: 09/11/19 13:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.4</b>		1.0	0.71	mg/L			09/18/19 11:32	1
<b>Fluoride</b>	<b>0.067</b>	<b>J</b>	0.10	0.026	mg/L			09/18/19 11:32	1
<b>Sulfate</b>	<b>9.6</b>		1.0	0.38	mg/L			09/18/19 11:32	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Arsenic</b>	<b>0.00055</b>	<b>J</b>	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Barium</b>	<b>0.028</b>		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:30	1
Beryllium	<0.00018	<b>^</b>	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:30	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Chromium</b>	<b>0.012</b>		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Cobalt</b>	<b>0.00016</b>	<b>J</b>	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:30	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:30	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Nickel</b>	<b>0.00063</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Vanadium</b>	<b>0.025</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:30	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Calcium</b>	<b>17</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:30	1
<b>Boron</b>	<b>0.083</b>		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:20	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-9**

**Lab Sample ID: 180-95639-5**

Date Collected: 09/11/19 13:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/16/19 11:39	1

**Client Sample ID: GWC-10**

**Lab Sample ID: 180-95639-6**

Date Collected: 09/11/19 15:50

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			09/18/19 11:48	1
Fluoride	0.067	J	0.10	0.026	mg/L			09/18/19 11:48	1
Sulfate	1.8		1.0	0.38	mg/L			09/18/19 11:48	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:34	1
Arsenic	0.00055	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:34	1
Barium	0.033		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:34	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:34	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:34	1
Chromium	0.023		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:34	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:34	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:34	1
Nickel	0.0016		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:34	1
Vanadium	0.017		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:34	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:34	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:34	1
Zinc	0.0040	J	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:34	1
Calcium	18		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:34	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:23	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-11**

**Lab Sample ID: 180-95639-7**

Date Collected: 09/11/19 14:30

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			09/18/19 12:04	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-11**  
Date Collected: 09/11/19 14:30  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-7**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.054	J	0.10	0.026	mg/L			09/18/19 12:04	1
Sulfate	0.63	J	1.0	0.38	mg/L			09/18/19 12:04	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:37	1
Arsenic	0.00045	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:37	1
Barium	0.017		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:37	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:37	1
Chromium	0.011		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:37	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:37	1
Nickel	0.00066	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:37	1
Vanadium	0.015		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:37	1
Zinc	0.0072		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:37	1
Calcium	13		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:37	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:27	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-12**  
Date Collected: 09/11/19 13:00  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-8**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/18/19 12:19	1
Fluoride	0.039	J	0.10	0.026	mg/L			09/18/19 12:19	1
Sulfate	0.50	J	1.0	0.38	mg/L			09/18/19 12:19	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:41	1
Arsenic	0.00038	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:41	1
Barium	0.017		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:41	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:41	1
Chromium	0.0036		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:41	1
Cobalt	0.00042	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:41	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-12**  
Date Collected: 09/11/19 13:00  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-8**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:41	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Nickel</b>	<b>0.00084</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Vanadium</b>	<b>0.0052</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:41	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:41	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Zinc</b>	<b>0.0065</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:41	1
<b>Calcium</b>	<b>0.94</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:41	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>14</b>		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-13**  
Date Collected: 09/11/19 14:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-9**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			09/18/19 12:35	1
<b>Fluoride</b>	<b>0.051</b>	<b>J</b>	0.10	0.026	mg/L			09/18/19 12:35	1
<b>Sulfate</b>	<b>0.81</b>	<b>J</b>	1.0	0.38	mg/L			09/18/19 12:35	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Arsenic</b>	<b>0.00042</b>	<b>J</b>	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Barium</b>	<b>0.035</b>		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:44	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:44	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Chromium</b>	<b>0.0075</b>		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:44	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:44	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:44	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:44	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Nickel</b>	<b>0.00039</b>	<b>J</b>	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Vanadium</b>	<b>0.0062</b>		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:44	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:44	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Zinc</b>	<b>0.0085</b>		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:44	1
<b>Calcium</b>	<b>7.0</b>		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:44	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:34	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:47	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-13**  
Date Collected: 09/11/19 14:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-9**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	33		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-14**  
Date Collected: 09/11/19 14:35  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-10**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.1		1.0	0.71	mg/L			09/18/19 13:23	1
Fluoride	0.045	J	0.10	0.026	mg/L			09/18/19 13:23	1
Sulfate	0.50	J	1.0	0.38	mg/L			09/18/19 13:23	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:48	1
Arsenic	0.00045	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:48	1
Barium	0.011		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:48	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:48	1
Chromium	0.0038		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:48	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:48	1
Vanadium	0.0062		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:48	1
Zinc	0.0038	J	0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:48	1
Calcium	7.3		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:48	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:44	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:48	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-18**  
Date Collected: 09/11/19 13:12  
Date Received: 09/13/19 09:00

**Lab Sample ID: 180-95639-11**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.6		1.0	0.71	mg/L			09/18/19 14:10	1
Fluoride	0.055	J	0.10	0.026	mg/L			09/18/19 14:10	1
Sulfate	0.61	J	1.0	0.38	mg/L			09/18/19 14:10	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-18**

**Lab Sample ID: 180-95639-11**

Date Collected: 09/11/19 13:12

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00039	J	0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 16:58	1
Arsenic	0.00043	J	0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 16:58	1
Barium	0.035		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 16:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 16:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 16:58	1
Chromium	0.017		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Cobalt	0.00023	J	0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 16:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 16:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 16:58	1
Nickel	0.00048	J	0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 16:58	1
Vanadium	0.011		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 16:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 16:58	1
Copper	0.00084	J	0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 16:58	1
Zinc	0.0077		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 16:58	1
Calcium	10		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 16:58	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:41	09/25/19 15:47	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	77		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			09/18/19 14:26	1
Fluoride	0.058	J	0.10	0.026	mg/L			09/18/19 14:26	1
Sulfate	0.83	J	1.0	0.38	mg/L			09/18/19 14:26	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.00042	J	0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:30	1
Arsenic	0.00062	J B	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:30	1
Barium	0.036		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:30	1
Beryllium	0.00067	J B	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:30	1
Cadmium	0.00014	J B	0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:30	1
Chromium	0.013		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Cobalt	0.00031	J B	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:30	1
Lead	0.00023	J B	0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:30	1
Selenium	0.0016	J	0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Thallium	0.00032		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:30	1
Nickel	0.00082	J	0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:30	1
Vanadium	0.016		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:30	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: FD-2(LF)**

**Lab Sample ID: 180-95639-12**

Date Collected: 09/11/19 00:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0012	J	0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:30	1
Zinc	0.0054		0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:30	1
Calcium	15		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:30	1
Boron	0.060		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:30	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	99		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: FB-2(LF)**

**Lab Sample ID: 180-95639-13**

Date Collected: 09/11/19 10:00

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/08/19 05:49	1
Fluoride	<0.026		0.10	0.026	mg/L			10/08/19 05:49	1
Sulfate	<0.38		1.0	0.38	mg/L			10/08/19 05:49	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:33	1
Arsenic	0.00045	J B	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:33	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:33	1
Beryllium	0.00035	J B	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:33	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:33	1
Chromium	0.0027		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:33	1
Cobalt	0.00011	J B	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:33	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:33	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:33	1
Thallium	0.00015		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:33	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:33	1
Vanadium	0.0021		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:33	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:33	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:33	1
Zinc	0.0036	J	0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:33	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:33	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:33	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	310		10	10	mg/L			09/17/19 11:51	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: EB-2(LF)**

**Lab Sample ID: 180-95639-14**

Date Collected: 09/11/19 16:40

Matrix: Water

Date Received: 09/13/19 09:00

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 22:37	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 22:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 22:37	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Arsenic</b>	<b>0.00039</b>	<b>J B</b>	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:37	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Beryllium</b>	<b>0.00025</b>	<b>J B</b>	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:37	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Chromium</b>	<b>0.0029</b>		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Cobalt</b>	<b>0.000087</b>	<b>J B</b>	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:37	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:37	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Thallium</b>	<b>0.00015</b>		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:37	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Vanadium</b>	<b>0.0021</b>		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:37	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:37	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:37	1
<b>Zinc</b>	<b>0.0037</b>	<b>J</b>	0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:37	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:37	1
Boron	<0.039		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:37	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/17/19 11:51	1

**Client Sample ID: GWC-19**

**Lab Sample ID: 180-95737-1**

Date Collected: 09/12/19 09:45

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.5</b>		1.0	0.71	mg/L			09/22/19 17:37	1
<b>Fluoride</b>	<b>0.032</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 17:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 17:37	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:46	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Barium</b>	<b>0.026</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:46	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:46	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Chromium</b>	<b>0.012</b>		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Cobalt</b>	<b>0.00021</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:46	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-19**  
Date Collected: 09/12/19 09:45  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95737-1**  
Matrix: Water

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:46	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:46	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:46	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Nickel</b>	<b>0.0015</b>		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Vanadium</b>	<b>0.0083</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:46	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:46	1
<b>Zinc</b>	<b>0.0059</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:46	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>70</b>		10	10	mg/L			09/19/19 12:24	1

**Client Sample ID: GWC-20**  
Date Collected: 09/12/19 11:10  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95737-2**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.6</b>		1.0	0.71	mg/L			09/22/19 18:22	1
<b>Fluoride</b>	<b>0.044</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 18:22	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 18:22	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 17:49	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Barium</b>	<b>0.035</b>		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 17:49	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 17:49	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Chromium</b>	<b>0.011</b>		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Cobalt</b>	<b>0.00021</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 17:49	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 17:49	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 17:49	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 17:49	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Nickel</b>	<b>0.00097</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Vanadium</b>	<b>0.020</b>		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 17:49	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 17:49	1
<b>Zinc</b>	<b>0.0065</b>		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 17:49	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:39	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

**Client Sample ID: GWC-20**  
**Date Collected: 09/12/19 11:10**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95737-2**  
**Matrix: Water**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	84		10	10	mg/L			09/19/19 12:24	1

1

2

3

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13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-291418/56**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/16/19 21:04	1
Fluoride	<0.026		0.10	0.026	mg/L			09/16/19 21:04	1
Sulfate	<0.38		1.0	0.38	mg/L			09/16/19 21:04	1

**Lab Sample ID: LCS 180-291418/55**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.22		mg/L		97	90 - 110
Sulfate	25.0	23.9		mg/L		96	90 - 110

**Lab Sample ID: 180-95563-3 MS**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: GWC-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.5		25.0	28.6		mg/L		104	80 - 120
Fluoride	0.058	J	1.25	1.26		mg/L		97	80 - 120
Sulfate	0.70	J	25.0	26.0		mg/L		101	80 - 120

**Lab Sample ID: 180-95563-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 291418**

**Client Sample ID: GWC-3**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2.5		25.0	28.9		mg/L		106	80 - 120	1	20
Fluoride	0.058	J	1.25	1.27		mg/L		97	80 - 120	0	20
Sulfate	0.70	J	25.0	26.0		mg/L		101	80 - 120	0	20

**Lab Sample ID: MB 180-291680/6**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/18/19 04:37	1
Fluoride	<0.026		0.10	0.026	mg/L			09/18/19 04:37	1
Sulfate	<0.38		1.0	0.38	mg/L			09/18/19 04:37	1

**Lab Sample ID: LCS 180-291680/5**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.7		mg/L		103	90 - 110
Fluoride	1.25	1.22		mg/L		98	90 - 110
Sulfate	25.0	25.4		mg/L		102	90 - 110

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-95639-9 MS**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	25.6		mg/L		96	80 - 120
Fluoride	0.051	J	1.25	1.24		mg/L		95	80 - 120
Sulfate	0.81	J	25.0	25.1		mg/L		97	80 - 120

**Lab Sample ID: 180-95639-9 MSD**  
**Matrix: Water**  
**Analysis Batch: 291680**

**Client Sample ID: GWC-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	24.4		mg/L		92	80 - 120	5	20
Fluoride	0.051	J	1.25	1.17		mg/L		90	80 - 120	6	20
Sulfate	0.81	J	25.0	23.5		mg/L		91	80 - 120	6	20

**Lab Sample ID: MB 180-292035/18**  
**Matrix: Water**  
**Analysis Batch: 292035**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/20/19 14:59	1
Fluoride	<0.026		0.10	0.026	mg/L			09/20/19 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			09/20/19 14:59	1

**Lab Sample ID: LCS 180-292035/17**  
**Matrix: Water**  
**Analysis Batch: 292035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.3		mg/L		105	90 - 110
Fluoride	1.25	1.35		mg/L		108	90 - 110
Sulfate	25.0	25.5		mg/L		102	90 - 110

**Lab Sample ID: MB 180-292203/15**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 15:23	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 15:23	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 15:23	1

**Lab Sample ID: LCS 180-292203/5**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.19		mg/L		95	90 - 110
Sulfate	25.0	24.4		mg/L		98	90 - 110



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 180-95737-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-19**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.2		mg/L		103	80 - 120
Fluoride	0.032	J	1.25	1.29		mg/L		101	80 - 120
Sulfate	<0.38		25.0	26.1		mg/L		104	80 - 120

**Lab Sample ID: 180-95737-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292203**

**Client Sample ID: GWC-19**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	26.3		mg/L		99	80 - 120	4	20
Fluoride	0.032	J	1.25	1.24		mg/L		97	80 - 120	4	20
Sulfate	<0.38		25.0	24.8		mg/L		99	80 - 120	5	20

**Lab Sample ID: MB 180-294038/6**  
**Matrix: Water**  
**Analysis Batch: 294038**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			10/08/19 04:56	1
Fluoride	<0.026		0.10	0.026	mg/L			10/08/19 04:56	1
Sulfate	<0.38		1.0	0.38	mg/L			10/08/19 04:56	1

**Lab Sample ID: LCS 180-294038/5**  
**Matrix: Water**  
**Analysis Batch: 294038**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	24.3		mg/L		97	90 - 110
Fluoride	1.25	1.26		mg/L		101	90 - 110
Sulfate	25.0	24.1		mg/L		96	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 180-291656/1-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 15:26	09/29/19 20:30	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/17/19 15:26	09/29/19 20:30	1
Barium	<0.0016		0.010	0.0016	mg/L		09/17/19 15:26	09/29/19 20:30	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 15:26	09/29/19 20:30	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 15:26	09/29/19 20:30	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 15:26	09/29/19 20:30	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 15:26	09/29/19 20:30	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 15:26	09/29/19 20:30	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 15:26	09/29/19 20:30	1
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 15:26	09/29/19 20:30	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291656/1-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 15:26	09/29/19 20:30	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 15:26	09/29/19 20:30	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 15:26	09/29/19 20:30	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 15:26	09/29/19 20:30	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/17/19 15:26	09/29/19 20:30	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 15:26	09/29/19 20:30	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 15:26	09/29/19 20:30	1

**Lab Sample ID: LCS 180-291656/2-A**  
**Matrix: Water**  
**Analysis Batch: 293231**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291656**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.277		mg/L		111	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	1.02		mg/L		102	80 - 120
Beryllium	0.500	0.518		mg/L		104	80 - 120
Cadmium	0.500	0.544		mg/L		109	80 - 120
Chromium	0.500	0.562		mg/L		112	80 - 120
Cobalt	0.500	0.570		mg/L		114	80 - 120
Lead	0.500	0.541		mg/L		108	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.20		mg/L		120	80 - 120
Molybdenum	0.500	0.527		mg/L		105	80 - 120
Lithium	0.500	0.485		mg/L		97	80 - 120
Copper	0.500	0.573		mg/L		115	80 - 120
Calcium	25.0	26.7		mg/L		107	80 - 120
Boron	1.25	1.17		mg/L		94	80 - 120
Nickel	0.500	0.565		mg/L		113	80 - 120
Vanadium	0.500	0.551		mg/L		110	80 - 120
Silver	0.250	0.267		mg/L		107	80 - 120
Zinc	0.250	0.298		mg/L		119	80 - 120

**Lab Sample ID: MB 180-291661/1-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/17/19 16:03	09/26/19 11:48	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/17/19 16:03	09/26/19 11:48	1
Barium	0.00356	J	0.010	0.0016	mg/L		09/17/19 16:03	09/26/19 11:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/17/19 16:03	09/26/19 11:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/17/19 16:03	09/26/19 11:48	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/17/19 16:03	09/26/19 11:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/17/19 16:03	09/26/19 11:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/17/19 16:03	09/26/19 11:48	1
Molybdenum	<0.00061		0.015	0.00061	mg/L		09/17/19 16:03	09/26/19 11:48	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291661/1-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0034		0.0020	0.0034	mg/L		09/17/19 16:03	09/26/19 11:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/17/19 16:03	09/26/19 11:48	1
Calcium	<0.13		0.25	0.13	mg/L		09/17/19 16:03	09/26/19 11:48	1
Boron	<0.039		0.050	0.039	mg/L		09/17/19 16:03	09/26/19 11:48	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/17/19 16:03	09/26/19 11:48	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/17/19 16:03	09/26/19 11:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/17/19 16:03	09/26/19 11:48	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/17/19 16:03	09/26/19 11:48	1

**Lab Sample ID: LCS 180-291661/2-A**  
**Matrix: Water**  
**Analysis Batch: 292857**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291661**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	1.09		mg/L		109	80 - 120
Barium	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.500	0.502		mg/L		100	80 - 120
Cadmium	0.500	0.530		mg/L		106	80 - 120
Chromium	0.500	0.563		mg/L		113	80 - 120
Cobalt	0.500	0.560		mg/L		112	80 - 120
Lead	0.500	0.556		mg/L		111	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.14		mg/L		114	80 - 120
Molybdenum	0.500	0.519		mg/L		104	80 - 120
Lithium	0.500	0.498		mg/L		100	80 - 120
Copper	0.500	0.559		mg/L		112	80 - 120
Calcium	25.0	27.6		mg/L		110	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120
Nickel	0.500	0.560		mg/L		112	80 - 120
Vanadium	0.500	0.546		mg/L		109	80 - 120
Silver	0.250	0.265		mg/L		106	80 - 120
Zinc	0.250	0.231		mg/L		92	80 - 120

**Lab Sample ID: MB 180-291941/1-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:36	09/20/19 17:06	1
Arsenic	0.000586	J	0.0013	0.00032	mg/L		09/19/19 12:36	09/20/19 17:06	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:36	09/20/19 17:06	1
Beryllium	0.000451	J	0.0025	0.00018	mg/L		09/19/19 12:36	09/20/19 17:06	1
Cadmium	0.000245	J	0.0025	0.00013	mg/L		09/19/19 12:36	09/20/19 17:06	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:06	1
Cobalt	0.000243	J	0.0025	0.000075	mg/L		09/19/19 12:36	09/20/19 17:06	1
Lead	0.000267	J	0.0010	0.00013	mg/L		09/19/19 12:36	09/20/19 17:06	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:36	09/20/19 17:06	1
Thallium	0.000510		0.00050	0.00015	mg/L		09/19/19 12:36	09/20/19 17:06	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291941/1-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:36	09/20/19 17:06	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:36	09/20/19 17:06	1
Boron	0.0502		0.050	0.039	mg/L		09/19/19 12:36	09/20/19 17:06	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:36	09/20/19 17:06	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/19/19 12:36	09/20/19 17:06	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:36	09/20/19 17:06	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/19/19 12:36	09/20/19 17:06	1

**Lab Sample ID: LCS 180-291941/2-A**  
**Matrix: Water**  
**Analysis Batch: 292150**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291941**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.281		mg/L		112	80 - 120
Arsenic	1.00	1.04		mg/L		104	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Beryllium	0.500	0.539		mg/L		108	80 - 120
Cadmium	0.500	0.544		mg/L		109	80 - 120
Chromium	0.500	0.533		mg/L		107	80 - 120
Cobalt	0.500	0.536		mg/L		107	80 - 120
Lead	0.500	0.565		mg/L		113	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Thallium	1.00	1.14		mg/L		114	80 - 120
Copper	0.500	0.526		mg/L		105	80 - 120
Calcium	25.0	27.4		mg/L		110	80 - 120
Boron	1.25	1.36		mg/L		109	80 - 120
Nickel	0.500	0.534		mg/L		107	80 - 120
Vanadium	0.500	0.531		mg/L		106	80 - 120
Silver	0.250	0.271		mg/L		108	80 - 120
Zinc	0.250	0.269		mg/L		107	80 - 120

**Lab Sample ID: MB 180-291943/1-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/19/19 12:41	09/24/19 15:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/19/19 12:41	09/24/19 15:12	1
Barium	<0.0016		0.010	0.0016	mg/L		09/19/19 12:41	09/24/19 15:12	1
Beryllium	<0.00018	^	0.0025	0.00018	mg/L		09/19/19 12:41	09/24/19 15:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/19/19 12:41	09/24/19 15:12	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/19/19 12:41	09/24/19 15:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/19/19 12:41	09/24/19 15:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/19/19 12:41	09/24/19 15:12	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/19/19 12:41	09/24/19 15:12	1
Calcium	<0.13		0.25	0.13	mg/L		09/19/19 12:41	09/24/19 15:12	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/19/19 12:41	09/24/19 15:12	1

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: MB 180-291943/1-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/19/19 12:41	09/24/19 15:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/19/19 12:41	09/24/19 15:12	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/19/19 12:41	09/24/19 15:12	1

**Lab Sample ID: LCS 180-291943/2-A**  
**Matrix: Water**  
**Analysis Batch: 292548**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 291943**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.267		mg/L		107	80 - 120
Arsenic	1.00	0.919		mg/L		92	80 - 120
Barium	1.00	1.00		mg/L		100	80 - 120
Beryllium	0.500	0.525	^	mg/L		105	80 - 120
Cadmium	0.500	0.498		mg/L		100	80 - 120
Chromium	0.500	0.506		mg/L		101	80 - 120
Cobalt	0.500	0.465		mg/L		93	80 - 120
Lead	0.500	0.501		mg/L		100	80 - 120
Selenium	1.00	0.999		mg/L		100	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Copper	0.500	0.466		mg/L		93	80 - 120
Calcium	25.0	25.2		mg/L		101	80 - 120
Nickel	0.500	0.466		mg/L		93	80 - 120
Vanadium	0.500	0.463		mg/L		93	80 - 120
Silver	0.250	0.254		mg/L		102	80 - 120
Zinc	0.250	0.269		mg/L		107	80 - 120

**Lab Sample ID: MB 180-292487/1-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:33	09/27/19 16:38	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:33	09/27/19 16:38	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:33	09/27/19 16:38	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:33	09/27/19 16:38	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:33	09/27/19 16:38	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:33	09/27/19 16:38	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:33	09/27/19 16:38	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:33	09/27/19 16:38	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:33	09/27/19 16:38	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:33	09/27/19 16:38	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:33	09/27/19 16:38	1
Zinc	<0.0032		0.0050	0.0032	mg/L		09/24/19 14:33	09/27/19 16:38	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

**Lab Sample ID: LCS 180-292487/2-A**  
**Matrix: Water**  
**Analysis Batch: 293025**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 292487**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.250	0.282		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.511		mg/L		102	80 - 120
Cadmium	0.500	0.515		mg/L		103	80 - 120
Chromium	0.500	0.520		mg/L		104	80 - 120
Cobalt	0.500	0.488		mg/L		98	80 - 120
Lead	0.500	0.526		mg/L		105	80 - 120
Selenium	1.00	1.08		mg/L		108	80 - 120
Thallium	1.00	1.11		mg/L		111	80 - 120
Calcium	25.0	27.3		mg/L		109	80 - 120
Boron	1.25	1.18		mg/L		95	80 - 120
Nickel	0.500	0.489		mg/L		98	80 - 120
Vanadium	0.500	0.526		mg/L		105	80 - 120
Silver	0.250	0.253		mg/L		101	80 - 120
Zinc	0.250	0.289		mg/L		116	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-292677/1-A**  
**Matrix: Water**  
**Analysis Batch: 293023**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 292677**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		09/25/19 16:17	09/27/19 14:18	1

**Lab Sample ID: LCS 180-292677/2-A**  
**Matrix: Water**  
**Analysis Batch: 293023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 292677**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00211		mg/L		85	80 - 120

**Lab Sample ID: MB 180-293395/1-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/01/19 17:58	10/02/19 16:29	1

**Lab Sample ID: LCS 180-293395/2-A**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00246		mg/L		98	80 - 120

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: EPA 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-95639-1 MS**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00010		0.00100	0.000957		mg/L		96	75 - 125

**Lab Sample ID: 180-95639-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 293551**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**  
**Prep Batch: 293395**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.000961		mg/L		96	75 - 125	0	20

**Lab Sample ID: MB 180-293530/1-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:35	10/03/19 13:26	1

**Lab Sample ID: LCS 180-293530/2-A**  
**Matrix: Water**  
**Analysis Batch: 293683**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 293530**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00250	0.00252		mg/L		101	80 - 120

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: MB 180-291269/2**  
**Matrix: Water**  
**Analysis Batch: 291269**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/13/19 12:59	1

**Lab Sample ID: LCS 180-291269/1**  
**Matrix: Water**  
**Analysis Batch: 291269**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	633	598		mg/L		94	80 - 120

**Lab Sample ID: MB 180-291320/2**  
**Matrix: Water**  
**Analysis Batch: 291320**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 09:05	1



# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-291320/1**  
**Matrix: Water**  
**Analysis Batch: 291320**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	608		mg/L		96	80 - 120

**Lab Sample ID: MB 180-291355/2**  
**Matrix: Water**  
**Analysis Batch: 291355**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/14/19 10:15	1

**Lab Sample ID: LCS 180-291355/1**  
**Matrix: Water**  
**Analysis Batch: 291355**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	566		mg/L		89	80 - 120

**Lab Sample ID: MB 180-291463/2**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/16/19 11:39	1

**Lab Sample ID: LCS 180-291463/1**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	580		mg/L		92	80 - 120

**Lab Sample ID: 180-95639-1 DU**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: GWC-5**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	310		307		mg/L		0.6	10

**Lab Sample ID: 180-95639-4 DU**  
**Matrix: Water**  
**Analysis Batch: 291463**

**Client Sample ID: GWC-8A**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		223		mg/L		5	10

**Lab Sample ID: MB 180-291605/2**  
**Matrix: Water**  
**Analysis Batch: 291605**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/17/19 11:51	1

Eurofins TestAmerica, Pittsburgh

# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
 SDG: Cell 1 LF

## Method: SM 2540C - Solids, Total Dissolved (TDS)

**Lab Sample ID: LCS 180-291605/1**  
**Matrix: Water**  
**Analysis Batch: 291605**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	532		mg/L		84	80 - 120

**Lab Sample ID: MB 180-291934/2**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:24	1

**Lab Sample ID: LCS 180-291934/1**  
**Matrix: Water**  
**Analysis Batch: 291934**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	542		mg/L		86	80 - 120

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## HPLC/IC

### Analysis Batch: 291418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-95563-2	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-95563-4	GWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-95563-5	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-95563-6	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-95563-7	GWA-17	Total/NA	Water	EPA 300.0 R2.1	
180-95563-8	EB-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
180-95563-9	FB-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
180-95563-10	FD-1(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-291418/56	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-291418/55	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3 MS	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-95563-3 MSD	GWC-3	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 291680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-95639-2	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-95639-3	GWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-95639-4	GWC-8A	Total/NA	Water	EPA 300.0 R2.1	
180-95639-5	GWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-95639-6	GWC-10	Total/NA	Water	EPA 300.0 R2.1	
180-95639-7	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-95639-8	GWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-95639-10	GWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-95639-11	GWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-95639-12	FD-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-291680/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-291680/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9 MS	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-95639-9 MSD	GWC-13	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-14	EB-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292035/18	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292035/17	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-95737-2	GWC-20	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292203/15	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292203/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95737-1 MS	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-95737-1 MSD	GWC-19	Total/NA	Water	EPA 300.0 R2.1	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## HPLC/IC

### Analysis Batch: 294038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-13	FB-2(LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-294038/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-294038/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 291656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total Recoverable	Water	3005A	
180-95563-2	GWC-2	Total Recoverable	Water	3005A	
180-95563-3	GWC-3	Total Recoverable	Water	3005A	
180-95563-4	GWC-4	Total Recoverable	Water	3005A	
180-95563-5	GWA-15	Total Recoverable	Water	3005A	
MB 180-291656/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291656/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total Recoverable	Water	3005A	
180-95563-7	GWA-17	Total Recoverable	Water	3005A	
180-95563-8	EB-1(LF)	Total Recoverable	Water	3005A	
180-95563-9	FB-1(LF)	Total Recoverable	Water	3005A	
180-95563-10	FD-1(LF)	Total Recoverable	Water	3005A	
MB 180-291661/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291661/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-12	FD-2(LF)	Total Recoverable	Water	3005A	
180-95639-13	FB-2(LF)	Total Recoverable	Water	3005A	
180-95639-14	EB-2(LF)	Total Recoverable	Water	3005A	
MB 180-291941/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291941/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 291943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	3005A	
180-95639-2	GWC-6	Total Recoverable	Water	3005A	
180-95639-3	GWC-7	Total Recoverable	Water	3005A	
180-95639-4	GWC-8A	Total Recoverable	Water	3005A	
180-95639-5	GWC-9	Total Recoverable	Water	3005A	
180-95639-6	GWC-10	Total Recoverable	Water	3005A	
180-95639-7	GWC-11	Total Recoverable	Water	3005A	
180-95639-8	GWC-12	Total Recoverable	Water	3005A	
180-95639-9	GWC-13	Total Recoverable	Water	3005A	
180-95639-10	GWC-14	Total Recoverable	Water	3005A	
180-95639-11	GWC-18	Total Recoverable	Water	3005A	
MB 180-291943/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-291943/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals

### Analysis Batch: 292150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-12	FD-2(LF)	Total Recoverable	Water	EPA 6020	291941
180-95639-13	FB-2(LF)	Total Recoverable	Water	EPA 6020	291941
180-95639-14	EB-2(LF)	Total Recoverable	Water	EPA 6020	291941
MB 180-291941/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291941
LCS 180-291941/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291941

### Prep Batch: 292487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total Recoverable	Water	3005A	
180-95737-2	GWC-20	Total Recoverable	Water	3005A	
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 292548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	EPA 6020	291943
180-95639-2	GWC-6	Total Recoverable	Water	EPA 6020	291943
180-95639-3	GWC-7	Total Recoverable	Water	EPA 6020	291943
180-95639-4	GWC-8A	Total Recoverable	Water	EPA 6020	291943
180-95639-5	GWC-9	Total Recoverable	Water	EPA 6020	291943
180-95639-6	GWC-10	Total Recoverable	Water	EPA 6020	291943
180-95639-7	GWC-11	Total Recoverable	Water	EPA 6020	291943
180-95639-8	GWC-12	Total Recoverable	Water	EPA 6020	291943
180-95639-9	GWC-13	Total Recoverable	Water	EPA 6020	291943
180-95639-10	GWC-14	Total Recoverable	Water	EPA 6020	291943
180-95639-11	GWC-18	Total Recoverable	Water	EPA 6020	291943
MB 180-291943/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291943
LCS 180-291943/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291943

### Prep Batch: 292677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	7470A	
180-95563-2	GWC-2	Total/NA	Water	7470A	
180-95563-3	GWC-3	Total/NA	Water	7470A	
180-95563-4	GWC-4	Total/NA	Water	7470A	
180-95563-5	GWA-15	Total/NA	Water	7470A	
180-95563-6	GWA-16	Total/NA	Water	7470A	
180-95563-7	GWA-17	Total/NA	Water	7470A	
180-95563-8	EB-1(LF)	Total/NA	Water	7470A	
180-95563-9	FB-1(LF)	Total/NA	Water	7470A	
180-95563-10	FD-1(LF)	Total/NA	Water	7470A	
MB 180-292677/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-292677/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 292716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total Recoverable	Water	EPA 6020	291943
180-95639-2	GWC-6	Total Recoverable	Water	EPA 6020	291943
180-95639-3	GWC-7	Total Recoverable	Water	EPA 6020	291943
180-95639-4	GWC-8A	Total Recoverable	Water	EPA 6020	291943
180-95639-5	GWC-9	Total Recoverable	Water	EPA 6020	291943

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals (Continued)

### Analysis Batch: 292716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-6	GWC-10	Total Recoverable	Water	EPA 6020	291943
180-95639-7	GWC-11	Total Recoverable	Water	EPA 6020	291943
180-95639-8	GWC-12	Total Recoverable	Water	EPA 6020	291943
180-95639-9	GWC-13	Total Recoverable	Water	EPA 6020	291943
180-95639-10	GWC-14	Total Recoverable	Water	EPA 6020	291943
180-95639-11	GWC-18	Total Recoverable	Water	EPA 6020	291943

### Analysis Batch: 292857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total Recoverable	Water	EPA 6020	291661
180-95563-7	GWA-17	Total Recoverable	Water	EPA 6020	291661
180-95563-8	EB-1(LF)	Total Recoverable	Water	EPA 6020	291661
180-95563-9	FB-1(LF)	Total Recoverable	Water	EPA 6020	291661
180-95563-10	FD-1(LF)	Total Recoverable	Water	EPA 6020	291661
MB 180-291661/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291661
LCS 180-291661/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291661

### Analysis Batch: 293023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	EPA 7470A	292677
180-95563-2	GWC-2	Total/NA	Water	EPA 7470A	292677
180-95563-3	GWC-3	Total/NA	Water	EPA 7470A	292677
180-95563-4	GWC-4	Total/NA	Water	EPA 7470A	292677
180-95563-5	GWA-15	Total/NA	Water	EPA 7470A	292677
180-95563-6	GWA-16	Total/NA	Water	EPA 7470A	292677
180-95563-7	GWA-17	Total/NA	Water	EPA 7470A	292677
180-95563-8	EB-1(LF)	Total/NA	Water	EPA 7470A	292677
180-95563-9	FB-1(LF)	Total/NA	Water	EPA 7470A	292677
180-95563-10	FD-1(LF)	Total/NA	Water	EPA 7470A	292677
MB 180-292677/1-A	Method Blank	Total/NA	Water	EPA 7470A	292677
LCS 180-292677/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	292677

### Analysis Batch: 293025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total Recoverable	Water	EPA 6020	292487
180-95737-2	GWC-20	Total Recoverable	Water	EPA 6020	292487
MB 180-292487/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292487
LCS 180-292487/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292487

### Analysis Batch: 293231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total Recoverable	Water	EPA 6020	291656
180-95563-2	GWC-2	Total Recoverable	Water	EPA 6020	291656
180-95563-3	GWC-3	Total Recoverable	Water	EPA 6020	291656
180-95563-4	GWC-4	Total Recoverable	Water	EPA 6020	291656
180-95563-5	GWA-15	Total Recoverable	Water	EPA 6020	291656
MB 180-291656/1-A	Method Blank	Total Recoverable	Water	EPA 6020	291656
LCS 180-291656/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	291656

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals

### Prep Batch: 293395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	7470A	
180-95639-2	GWC-6	Total/NA	Water	7470A	
180-95639-3	GWC-7	Total/NA	Water	7470A	
180-95639-4	GWC-8A	Total/NA	Water	7470A	
180-95639-5	GWC-9	Total/NA	Water	7470A	
180-95639-6	GWC-10	Total/NA	Water	7470A	
180-95639-7	GWC-11	Total/NA	Water	7470A	
180-95639-8	GWC-12	Total/NA	Water	7470A	
180-95639-9	GWC-13	Total/NA	Water	7470A	
180-95639-10	GWC-14	Total/NA	Water	7470A	
180-95639-11	GWC-18	Total/NA	Water	7470A	
180-95639-12	FD-2(LF)	Total/NA	Water	7470A	
180-95639-13	FB-2(LF)	Total/NA	Water	7470A	
180-95639-14	EB-2(LF)	Total/NA	Water	7470A	
MB 180-293395/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95639-1 MS	GWC-5	Total/NA	Water	7470A	
180-95639-1 MSD	GWC-5	Total/NA	Water	7470A	

### Prep Batch: 293530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	7470A	
180-95737-2	GWC-20	Total/NA	Water	7470A	
MB 180-293530/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 293551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	EPA 7470A	293395
180-95639-2	GWC-6	Total/NA	Water	EPA 7470A	293395
180-95639-3	GWC-7	Total/NA	Water	EPA 7470A	293395
180-95639-4	GWC-8A	Total/NA	Water	EPA 7470A	293395
180-95639-5	GWC-9	Total/NA	Water	EPA 7470A	293395
180-95639-6	GWC-10	Total/NA	Water	EPA 7470A	293395
180-95639-7	GWC-11	Total/NA	Water	EPA 7470A	293395
180-95639-8	GWC-12	Total/NA	Water	EPA 7470A	293395
180-95639-9	GWC-13	Total/NA	Water	EPA 7470A	293395
180-95639-10	GWC-14	Total/NA	Water	EPA 7470A	293395
180-95639-11	GWC-18	Total/NA	Water	EPA 7470A	293395
180-95639-12	FD-2(LF)	Total/NA	Water	EPA 7470A	293395
180-95639-13	FB-2(LF)	Total/NA	Water	EPA 7470A	293395
180-95639-14	EB-2(LF)	Total/NA	Water	EPA 7470A	293395
MB 180-293395/1-A	Method Blank	Total/NA	Water	EPA 7470A	293395
LCS 180-293395/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293395
180-95639-1 MS	GWC-5	Total/NA	Water	EPA 7470A	293395
180-95639-1 MSD	GWC-5	Total/NA	Water	EPA 7470A	293395

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	EPA 7470A	293530
180-95737-2	GWC-20	Total/NA	Water	EPA 7470A	293530

Eurofins TestAmerica, Pittsburgh



# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## Metals (Continued)

### Analysis Batch: 293683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-293530/1-A	Method Blank	Total/NA	Water	EPA 7470A	293530
LCS 180-293530/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293530

## General Chemistry

### Analysis Batch: 291269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-1	GWC-1	Total/NA	Water	SM 2540C	
180-95563-2	GWC-2	Total/NA	Water	SM 2540C	
180-95563-3	GWC-3	Total/NA	Water	SM 2540C	
MB 180-291269/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291269/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-4	GWC-4	Total/NA	Water	SM 2540C	
180-95563-5	GWA-15	Total/NA	Water	SM 2540C	
MB 180-291320/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291320/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95563-6	GWA-16	Total/NA	Water	SM 2540C	
180-95563-7	GWA-17	Total/NA	Water	SM 2540C	
180-95563-8	EB-1(LF)	Total/NA	Water	SM 2540C	
180-95563-9	FB-1(LF)	Total/NA	Water	SM 2540C	
180-95563-10	FD-1(LF)	Total/NA	Water	SM 2540C	
MB 180-291355/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291355/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-1	GWC-5	Total/NA	Water	SM 2540C	
180-95639-2	GWC-6	Total/NA	Water	SM 2540C	
180-95639-3	GWC-7	Total/NA	Water	SM 2540C	
180-95639-4	GWC-8A	Total/NA	Water	SM 2540C	
180-95639-5	GWC-9	Total/NA	Water	SM 2540C	
MB 180-291463/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291463/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95639-1 DU	GWC-5	Total/NA	Water	SM 2540C	
180-95639-4 DU	GWC-8A	Total/NA	Water	SM 2540C	

### Analysis Batch: 291605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-6	GWC-10	Total/NA	Water	SM 2540C	
180-95639-7	GWC-11	Total/NA	Water	SM 2540C	
180-95639-8	GWC-12	Total/NA	Water	SM 2540C	
180-95639-9	GWC-13	Total/NA	Water	SM 2540C	
180-95639-10	GWC-14	Total/NA	Water	SM 2540C	
180-95639-11	GWC-18	Total/NA	Water	SM 2540C	
180-95639-12	FD-2(LF)	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95563-1  
SDG: Cell 1 LF

## General Chemistry (Continued)

### Analysis Batch: 291605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95639-13	FB-2(LF)	Total/NA	Water	SM 2540C	
180-95639-14	EB-2(LF)	Total/NA	Water	SM 2540C	
MB 180-291605/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291605/1	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 291934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95737-1	GWC-19	Total/NA	Water	SM 2540C	
180-95737-2	GWC-20	Total/NA	Water	SM 2540C	
MB 180-291934/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291934/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Regulatory Program:  DW  NPDES  RCRA  Other:

Project Manager: Dawn Prell  
Tel/Fax: 248-536-5445

Client Contact  
Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
JAbraham@southernco.com

Project Name: CCR - Plant Scherer Cell 1  
Site: Georgia  
P O # 18019884

Site Contact: Karim Minkara  
Lab Contact: Veronica Bortot

Date: 9/11/2019  
Carrier:

COC No: 1 of 1 COCs

Sampler:  
For Lab Use Only:  
Walk-in Client:  
Lab Sampling:  
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)		Perform MS / MSD (Y / N)		State Metals* 6020, 7470A: Appendix III Metals + Cl, F, SO4, TDS	Sample Specific Notes:
						Y	N	Y	N		
GWC-1	9/10/2019	1340	G	Water	2			X	X		
GWC-2	9/10/2019	1500	G	Water	2			X	X		
GWC-3	9/10/2019	1217	G	Water	2			X	X		
GWC-4	9/10/2019	1545	G	Water	2			X	X		
GWA-15	9/10/2019	1200	G	Water	2			X	X		
GWA-16	9/10/2019	1423	G	Water	2			X	X		
GWA-17	9/10/2019	1535	G	Water	2			X	X		
EB-1 (LF)	9/10/2019	1545	G	Water	2			X	X		
FB-1 (LF)	9/10/2019	1544	G	Water	2			X	X		
FD-1 (LF)	9/10/2019	--	G	Water	2			X	X		
						4	1				



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Return to Client  Disposal by Lab  Archive for Months

Special Instructions/QC Requirements & Comments:  
\*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Custody Seal No.:  
Relinquished by: Kim M  
Company: Golic  
Date/Time: 4-11-19 7:50  
Received by: Elaine Cook  
Company: Courier Now  
Date/Time: 9-11-19 09:59

Relinquished by: Elaine Cook  
Company: Courier Now  
Date/Time: 9-11-19 09:59  
Received by: [Signature]  
Company: [Signature]  
Date/Time: 9-12-19 9:00

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019





Regulatory Program:  DW  NPDES  RCRA  Other:

COC No: 1 of 1 COCs

Date: 9/12/2019

Site Contact: Karim Minkara

Project Manager: Dawn Prell

Client Contact

Sampler:  
For Lab Use Only:  
Walk-in Client:  
Lab Sampling:  
Job / SDG No.:

Carrier:

Lab Contact: Veronica Bortot

Tel/Fax: 248-536-5445  
Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
j.abraham@sc-outdoorsinc.com  
Project Name: CCR - Plant Scherer Cell 1  
Site: Georgia  
P O # 18019884

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sample Specific Notes:
						6020, 7470A: Appendix III Metals	C1, F, SO4, TDS	6020, 7470A: Appendix III Metals	C1, F, SO4, TDS	
GWC-5	9/11/2019	935	G	Water	2	X	X	X	X	
GWC-6	9/11/2019	1050	G	Water	2	X	X	X	X	
GWC-7	9/11/2019	1153	G	Water	2	X	X	X	X	
GWC-8A	9/11/2019	1055	G	Water	2	X	X	X	X	
GWC-9	9/11/2019	1300	G	Water	2	X	X	X	X	
GWC-10	9/11/2019	1550	G	Water	2	X	X	X	X	
GWC-11	9/11/2019	1430	G	Water	2	X	X	X	X	
GWC-12	9/11/2019	1300	G	Water	2	X	X	X	X	
GWC-13	9/11/2019	1412	G	Water	2	X	X	X	X	
GWC-14	9/11/2019	1435	G	Water	2	X	X	X	X	
GWC-18	9/11/2019	1312	G	Water	2	X	X	X	X	
FD-2 (LF)	9/11/2019	--	G	Water	2	X	X	X	X	
FB-2 (LF)	9/11/2019	1000	G	Water	2	X	X	X	X	
EB-2 (LF)	9/11/2019	1640	G	Water	2	X	X	X	X	
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other						4	1			



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments: \*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Non-Hazard  Flammable  Skin Irritant  
 Poison B  Unknown  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Relinquished by: *mm* Custody Seal No.:  
 Relinquished by: *Blaine Cook* Company: *Goldr*  
 Relinquished by: *Blaine Cook* Company: *Wolverine Now*  
 Relinquished by: *Blaine Cook* Company: *Wolverine Now*

Date/Time: 9-12-19 7:45  
 Date/Time: 9-12-19 0939  
 Date/Time: 9-13-19

Cooler Temp. (°C): Obs'd: \_\_\_\_\_  
 Company: *Wolverine Now*  
 Company: *Blaine Cook*  
 Company: *Wolverine Now*  
 Received in Laboratory by: *Blaine Cook*  
 Received in Laboratory by: *Blaine Cook*  
 Received in Laboratory by: *Blaine Cook*

Therm ID No.:



Joju Abraham  
Southern Company  
241 Ralph McGill Blvd SE B10185  
Atlanta, GA 30308  
JAbraham@southernco.com  
Project Name: CCR - Plant Scherer Cell 1  
Site: Georgia  
P O # 18019884

Project Manager: Dawn Prell  
Tel/Fax: 248-536-5445

Regulatory Program:  DW  NPDES  RCRA  Other:  
Site Contact: Karim Minkara  
Lab Contact: Veronica Bortot

Date: 9/13/2019  
Carrier: \_\_\_\_\_

COC No: \_\_\_\_\_  
1 of 1 COCs  
Sampler: \_\_\_\_\_  
For Lab Use Only:  
Walk-in Client:  
Lab Sampling:  
Job / SDG No.:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	State Metals*	C1, P, SO4, TDS
GWC-19	9/12/2019	945	G	Water	2		X	X	
GWC-20	9/12/2019	1110	G	Water	2		X	X	

Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Specific Notes:  
180-95737 Chain of Custody

4	1								
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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other \_\_\_\_\_  
Possible Hazard Identification: \_\_\_\_\_  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  
 Poison B  Unknown  
Return to Client  Dispose by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
\*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Custody Seal No.: \_\_\_\_\_  
Relinquished by: *Ju 20* Company: *Golder* Date/Time: *9-13-19 132*  
Relinquished by: *AP, H* Company: *AP, H* Date/Time: *1341*  
Relinquished by: \_\_\_\_\_ Company: \_\_\_\_\_ Date/Time: \_\_\_\_\_





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95563**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95639**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95563-1

SDG Number: Cell 1 LF

**Login Number: 95737**

**List Source: Eurofins TestAmerica, Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



**ANALYTICAL RESULTS**

# PAC ASH CELL

## ANALYTICAL REPORT

Eurofins TestAmerica, Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA 15238  
Tel: (412)963-7058

Laboratory Job ID: 180-95743-1

Laboratory Sample Delivery Group: PAC Ash Cell  
Client Project/Site: CCR - Plant Scherer

**For:**

Southern Company  
241 Ralph McGill Blvd SE  
B10185  
Atlanta, Georgia 30308

Attn: Joju Abraham



Authorized for release by:  
10/23/2019 1:58:04 PM

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

PA Lab ID: 02-00416



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# Case Narrative

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

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**Job ID: 180-95743-1**

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**Laboratory: Eurofins TestAmerica, Pittsburgh**

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## Narrative

### Job Narrative 180-95743-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/14/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3° C, 1.4° C, 3.4° C and 15.5° C.

#### Receipt Exceptions

The following samples were listed on the Chain of Custody (COC); however, no samples were received: GWA-49 (180-95743-6), GWC-29 (180-95743-7), GWC-51 (180-95743-8), EB-1(PA) (180-95743-11), EB-2(PA) (180-95743-12), FD-1(PA) (180-95743-13), GWA-45 (180-95743-14) and FB-2(PA) (180-95743-17). There is a missing cooler from this shipment. The following samples were received 9/17/19.

The following samples were received at the laboratory outside the required temperature criteria: GWA-49 (180-95743-6), GWC-29 (180-95743-7), GWC-51 (180-95743-8), EB-1(PA) (180-95743-11), EB-2(PA) (180-95743-12), FD-1(PA) (180-95743-13), GWA-45 (180-95743-14) and FB-2(PA) (180-95743-17). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Definitions/Glossary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Qualifiers

### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Accreditation/Certification Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
California	State	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Georgia	State	PA 02-00416	04-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State	434	12-31-19
North Dakota	State	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
South Carolina	State	89014	04-30-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	10043	09-15-20
West Virginia DEP	State	142	01-31-20
Wisconsin	State	998027800	08-31-20





# Sample Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
180-95743-1	GWA-21	Water	09/12/19 14:15	09/14/19 09:45	
180-95743-2	GWA-22	Water	09/12/19 13:10	09/14/19 09:45	
180-95743-3	GWA-47	Water	09/12/19 13:49	09/14/19 09:45	
180-95743-4	GWA-46	Water	09/12/19 15:17	09/14/19 09:45	
180-95743-5	GWA-48	Water	09/12/19 11:52	09/14/19 09:45	
180-95743-6	GWA-49	Water	09/12/19 13:55	09/14/19 09:45	
180-95743-7	GWC-29	Water	09/12/19 15:50	09/14/19 09:45	
180-95743-8	GWC-51	Water	09/12/19 14:50	09/14/19 09:45	
180-95743-9	GWC-52	Water	09/12/19 16:00	09/14/19 09:45	
180-95743-10	FB-1(PA)	Water	09/12/19 15:14	09/14/19 09:45	
180-95743-11	EB-1(PA)	Water	09/12/19 16:45	09/14/19 09:45	
180-95743-12	EB-2(PA)	Water	09/12/19 16:50	09/14/19 09:45	
180-95743-13	FD-1(PA)	Water	09/12/19 00:00	09/14/19 09:45	
180-95743-14	GWA-45	Water	09/12/19 09:08	09/14/19 09:45	
180-95743-15	GWC-53	Water	09/12/19 09:25	09/14/19 09:45	
180-95743-16	GWC-50	Water	09/12/19 10:40	09/14/19 09:45	
180-95743-17	FB-2(PA)	Water	09/12/19 08:58	09/14/19 09:45	
180-95743-18	FD-2(PA)	Water	09/12/19 00:00	09/14/19 09:45	

# Method Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
EPA 6020	Metals (ICP/MS)	SW846	TAL PIT
EPA 7470A	Mercury (CVAA)	SW846	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PIT

#### Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-21**  
**Date Collected: 09/12/19 14:15**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 19:53	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:21	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 13:57	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-22**  
**Date Collected: 09/12/19 13:10**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:10	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:24	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:00	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-47**  
**Date Collected: 09/12/19 13:49**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:25	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:28	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:01	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-46**

**Lab Sample ID: 180-95743-4**

**Date Collected: 09/12/19 15:17**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:41	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:31	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:04	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-95743-5**

**Date Collected: 09/12/19 11:52**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 21:56	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:41	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:05	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

**Date Collected: 09/12/19 13:55**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:11	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:45	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:06	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-95743-7**

**Date Collected: 09/12/19 15:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:26	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:48	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:06	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-51**

**Lab Sample ID: 180-95743-8**

**Date Collected: 09/12/19 14:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:42	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:51	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:07	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-95743-9**

**Date Collected: 09/12/19 16:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/22/19 22:57	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 21:55	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:08	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

**Date Collected: 09/12/19 15:14**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			292202	09/22/19 23:12	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294986	10/15/19 21:58	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 14:09	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: EB-1(PA)**

**Lab Sample ID: 180-95743-11**

**Date Collected: 09/12/19 16:45**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			292202	09/22/19 23:58	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294986	10/15/19 22:01	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 14:10	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

**Client Sample ID: EB-2(PA)**

**Lab Sample ID: 180-95743-12**

**Date Collected: 09/12/19 16:50**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			292202	09/23/19 00:14	CMR	TAL PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020		1			294986	10/15/19 22:05	RSK	TAL PIT
Instrument ID: A										
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A		1			293683	10/03/19 14:11	RJR	TAL PIT
Instrument ID: HGZ										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 00:29	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:08	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:12	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-95743-14**

**Date Collected: 09/12/19 09:08**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:15	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:15	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:12	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:15	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291935	09/19/19 12:28	AVS	TAL PIT

**Client Sample ID: GWC-53**

**Lab Sample ID: 180-95743-15**

**Date Collected: 09/12/19 09:25**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:30	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:22	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:16	RJR	TAL PIT

Eurofins TestAmerica, Pittsburgh



# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-53**

**Date Collected: 09/12/19 09:25**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-15**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: GWC-50**

**Date Collected: 09/12/19 10:40**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-16**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 01:45	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:25	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:17	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: FB-2(PA)**

**Date Collected: 09/12/19 08:58**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-17**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 02:01	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:28	RSK	TAL PIT
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:18	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

**Client Sample ID: FD-2(PA)**

**Date Collected: 09/12/19 00:00**

**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-18**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			292202	09/23/19 02:16	CMR	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		5			292226	09/23/19 12:45	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	292485	09/24/19 14:32	NAM	TAL PIT
Total Recoverable	Analysis	EPA 6020 Instrument ID: A		1			294986	10/15/19 22:32	RSK	TAL PIT

Eurofins TestAmerica, Pittsburgh

# Lab Chronicle

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-2(PA)**

**Lab Sample ID: 180-95743-18**

**Date Collected: 09/12/19 00:00**

**Matrix: Water**

**Date Received: 09/14/19 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			25 mL	25 mL	293528	10/02/19 15:33	NAM	TAL PIT
Total/NA	Analysis	EPA 7470A Instrument ID: HGZ		1			293683	10/03/19 14:19	RJR	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	291983	09/19/19 15:51	AVS	TAL PIT

## Laboratory References:

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

## Analyst References:

Lab: TAL PIT

Batch Type: Prep

NAM = Nicole Marfisi

Batch Type: Analysis

AVS = Abbey Smith

CMR = Carl Reagle

MJH = Matthew Hartman

RJR = Ron Rosenbaum

RSK = Robert Kurtz

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-21**  
Date Collected: 09/12/19 14:15  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-1**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.4		1.0	0.71	mg/L			09/22/19 19:53	1
Fluoride	0.040	J	0.10	0.026	mg/L			09/22/19 19:53	1
Sulfate	1.3		1.0	0.38	mg/L			09/22/19 19:53	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:21	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:21	1
Barium	0.025		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:21	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:21	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:21	1
Chromium	0.0047	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Cobalt	0.00040	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:21	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:21	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:21	1
Nickel	0.00097	J	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:21	1
Vanadium	0.0031		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:21	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:21	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:21	1
Zinc	0.0046	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:21	1
Calcium	8.8		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:21	1
Boron	0.053		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:21	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 13:57	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-22**  
Date Collected: 09/12/19 13:10  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-2**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.71	mg/L			09/22/19 21:10	1
Fluoride	0.043	J	0.10	0.026	mg/L			09/22/19 21:10	1
Sulfate	0.38	J	1.0	0.38	mg/L			09/22/19 21:10	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:24	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:24	1
Barium	0.023		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:24	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:24	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:24	1
Chromium	0.0092	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:24	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-22**

**Lab Sample ID: 180-95743-2**

Date Collected: 09/12/19 13:10

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:24	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:24	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Vanadium</b>	<b>0.0025</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:24	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:24	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Zinc</b>	<b>0.0085</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:24	1
<b>Calcium</b>	<b>6.1</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:24	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:24	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>72</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-47**

**Lab Sample ID: 180-95743-3**

Date Collected: 09/12/19 13:49

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1.4</b>		1.0	0.71	mg/L			09/22/19 21:25	1
<b>Fluoride</b>	<b>0.041</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 21:25	1
<b>Sulfate</b>	<b>0.40</b>	<b>J</b>	1.0	0.38	mg/L			09/22/19 21:25	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:28	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Barium</b>	<b>0.028</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:28	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Chromium</b>	<b>0.0088</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:28	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:28	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:28	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Vanadium</b>	<b>0.0075</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:28	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Zinc</b>	<b>0.0049</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:28	1
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:28	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:28	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-47**  
Date Collected: 09/12/19 13:49  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-3**  
Matrix: Water

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-46**  
Date Collected: 09/12/19 15:17  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-4**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.71	mg/L			09/22/19 21:41	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 21:41	1
Sulfate	0.61	J	1.0	0.38	mg/L			09/22/19 21:41	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:31	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:31	1
Barium	0.022		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:31	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:31	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:31	1
Chromium	0.0051	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Cobalt	0.000095	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:31	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:31	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:31	1
Nickel	0.00040	J	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:31	1
Vanadium	0.0033		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:31	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:31	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:31	1
Zinc	0.0091	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:31	1
Calcium	5.7		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:31	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:31	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	97		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-48**  
Date Collected: 09/12/19 11:52  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-5**  
Matrix: Water

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			09/22/19 21:56	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-48**

**Lab Sample ID: 180-95743-5**

Date Collected: 09/12/19 11:52

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.044	J	0.10	0.026	mg/L			09/22/19 21:56	1
Sulfate	1.2		1.0	0.38	mg/L			09/22/19 21:56	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:41	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:41	1
Barium	0.016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:41	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:41	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:41	1
Chromium	0.0085	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:41	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:41	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:41	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:41	1
Vanadium	0.019		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:41	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:41	1
Copper	0.00083	J	0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:41	1
Zinc	0.0048	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:41	1
Calcium	13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:41	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:41	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

Date Collected: 09/12/19 13:55

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			09/22/19 22:11	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/22/19 22:11	1
Sulfate	0.77	J	1.0	0.38	mg/L			09/22/19 22:11	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:45	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:45	1
Barium	0.022		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:45	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:45	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:45	1
Chromium	0.0075	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:45	1
Cobalt	0.00017	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:45	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:45	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-49**

**Lab Sample ID: 180-95743-6**

Date Collected: 09/12/19 13:55

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:45	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Nickel</b>	<b>0.00043</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Vanadium</b>	<b>0.020</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:45	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:45	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Zinc</b>	<b>0.0041</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:45	1
<b>Calcium</b>	<b>14</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:45	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:45	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-29**

**Lab Sample ID: 180-95743-7**

Date Collected: 09/12/19 15:50

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>3.0</b>		1.0	0.71	mg/L			09/22/19 22:26	1
<b>Fluoride</b>	<b>0.042</b>	<b>J</b>	0.10	0.026	mg/L			09/22/19 22:26	1
<b>Sulfate</b>	<b>3.2</b>		1.0	0.38	mg/L			09/22/19 22:26	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:48	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Barium</b>	<b>0.019</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:48	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:48	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Chromium</b>	<b>0.0021</b>	<b>J B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:48	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:48	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:48	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:48	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Nickel</b>	<b>0.0035</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Vanadium</b>	<b>0.0054</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:48	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:48	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Zinc</b>	<b>0.0058</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:48	1
<b>Calcium</b>	<b>12</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:48	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:48	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:06	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-29**  
Date Collected: 09/12/19 15:50  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-7**  
Matrix: Water

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-51**  
Date Collected: 09/12/19 14:50  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-8**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8		1.0	0.71	mg/L			09/22/19 22:42	1
Fluoride	0.028	J	0.10	0.026	mg/L			09/22/19 22:42	1
Sulfate	0.65	J	1.0	0.38	mg/L			09/22/19 22:42	1

### Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:51	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:51	1
Barium	0.011		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:51	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:51	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:51	1
Chromium	0.0043	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Cobalt	0.00012	J	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:51	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:51	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:51	1
Nickel	0.0019		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:51	1
Vanadium	0.0047		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:51	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:51	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:51	1
Zinc	0.0042	J B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:51	1
Calcium	7.1		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:51	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:51	1

### Method: EPA 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:07	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-52**  
Date Collected: 09/12/19 16:00  
Date Received: 09/14/19 09:45

**Lab Sample ID: 180-95743-9**  
Matrix: Water

### Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		1.0	0.71	mg/L			09/22/19 22:57	1
Fluoride	0.042	J	0.10	0.026	mg/L			09/22/19 22:57	1
Sulfate	34		1.0	0.38	mg/L			09/22/19 22:57	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-52**

**Lab Sample ID: 180-95743-9**

Date Collected: 09/12/19 16:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:55	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Barium</b>	<b>0.017</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:55	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:55	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Chromium</b>	<b>0.027 B</b>		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:55	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:55	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:55	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Vanadium</b>	<b>0.011</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:55	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:55	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Zinc</b>	<b>0.0073 B</b>		0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:55	1
<b>Calcium</b>	<b>17</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:55	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:55	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>160</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

Date Collected: 09/12/19 15:14

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 23:12	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 23:12	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 23:12	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 21:58	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 21:58	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 21:58	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 21:58	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 21:58	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 21:58	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 21:58	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 21:58	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 21:58	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 21:58	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 21:58	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-1(PA)**

**Lab Sample ID: 180-95743-10**

Date Collected: 09/12/19 15:14

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 21:58	1
<b>Zinc</b>	<b>0.0042</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 21:58	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 21:58	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 21:58	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: EB-1(PA)**

**Lab Sample ID: 180-95743-11**

Date Collected: 09/12/19 16:45

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 23:58	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 23:58	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 23:58	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:01	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:01	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:01	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:01	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Chromium</b>	<b>0.040</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:01	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:01	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:01	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:01	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Nickel</b>	<b>0.00077</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:01	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:01	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Copper</b>	<b>0.0014</b>	<b>J</b>	0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:01	1
<b>Zinc</b>	<b>0.0046</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:01	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:01	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:01	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: EB-2(PA)**

**Lab Sample ID: 180-95743-12**

Date Collected: 09/12/19 16:50

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 00:14	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 00:14	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 00:14	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:05	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:05	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:05	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:05	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:05	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:05	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:05	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:05	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:05	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:05	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:05	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:05	1
<b>Zinc</b>	<b>0.0059</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:05	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:05	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:05	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>7.0</b>		1.0	0.71	mg/L			09/23/19 00:29	1
<b>Fluoride</b>	<b>0.030</b>	<b>J</b>	0.10	0.026	mg/L			09/23/19 00:29	1
<b>Sulfate</b>	<b>0.89</b>	<b>J</b>	1.0	0.38	mg/L			09/23/19 00:29	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:08	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Barium</b>	<b>0.010</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:08	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:08	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Chromium</b>	<b>0.0047</b>	<b>B</b>	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Cobalt</b>	<b>0.00011</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:08	1

Eurofins TestAmerica, Pittsburgh

# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-1(PA)**

**Lab Sample ID: 180-95743-13**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:08	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:08	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Nickel</b>	<b>0.0020</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Vanadium</b>	<b>0.0046</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:08	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:08	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Zinc</b>	<b>0.0046</b>	<b>J B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:08	1
<b>Calcium</b>	<b>7.1</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:08	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:08	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>120</b>		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-95743-14**

Date Collected: 09/12/19 09:08

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>10</b>		1.0	0.71	mg/L			09/23/19 01:15	1
<b>Fluoride</b>	<b>0.026</b>	<b>J</b>	0.10	0.026	mg/L			09/23/19 01:15	1
<b>Sulfate</b>	<b>170</b>		5.0	1.9	mg/L			09/23/19 12:15	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:12	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Barium</b>	<b>0.10</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:12	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:12	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:12	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Cobalt</b>	<b>0.0018</b>	<b>J</b>	0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:12	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:12	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:12	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Nickel</b>	<b>0.00061</b>	<b>J</b>	0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Vanadium</b>	<b>0.0017</b>		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:12	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:12	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Zinc</b>	<b>0.0095</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Calcium</b>	<b>36</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:12	1
<b>Boron</b>	<b>0.91</b>		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:12	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWA-45**

**Lab Sample ID: 180-95743-14**

Date Collected: 09/12/19 09:08

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10	10	mg/L			09/19/19 12:28	1

**Client Sample ID: GWC-53**

**Lab Sample ID: 180-95743-15**

Date Collected: 09/12/19 09:25

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			09/23/19 01:30	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 01:30	1
Sulfate	170		5.0	1.9	mg/L			09/23/19 12:30	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:22	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:22	1
Barium	0.043		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:22	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:22	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:22	1
Chromium	0.0020	J B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Cobalt	0.011		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:22	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:22	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:22	1
Nickel	0.0070		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:22	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:22	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:22	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:22	1
Zinc	0.020	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:22	1
Calcium	18		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:22	1
Boron	0.94		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:22	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: GWC-50**

**Lab Sample ID: 180-95743-16**

Date Collected: 09/12/19 10:40

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			09/23/19 01:45	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: GWC-50**

**Lab Sample ID: 180-95743-16**

Date Collected: 09/12/19 10:40

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.028	J	0.10	0.026	mg/L			09/23/19 01:45	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 01:45	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:25	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:25	1
Barium	0.013		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:25	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:25	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:25	1
Chromium	0.0060	B	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:25	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:25	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:25	1
Nickel	0.0012		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:25	1
Vanadium	0.0028		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:25	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:25	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:25	1
Zinc	0.0057	B	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:25	1
Calcium	7.5		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:25	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:25	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	89		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: FB-2(PA)**

**Lab Sample ID: 180-95743-17**

Date Collected: 09/12/19 08:58

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/23/19 02:01	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 02:01	1
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 02:01	1

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:28	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:28	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:28	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:28	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:28	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:28	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:28	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FB-2(PA)**

**Lab Sample ID: 180-95743-17**

Date Collected: 09/12/19 08:58

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:28	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:28	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:28	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:28	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:28	1
<b>Zinc</b>	<b>0.0056</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:28	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:28	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:28	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 15:51	1

**Client Sample ID: FD-2(PA)**

**Lab Sample ID: 180-95743-18**

Date Collected: 09/12/19 00:00

Matrix: Water

Date Received: 09/14/19 09:45

**Method: EPA 300.0 R2.1 - Anions, Ion Chromatography**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>12</b>		1.0	0.71	mg/L			09/23/19 02:16	1
Fluoride	<0.026		0.10	0.026	mg/L			09/23/19 02:16	1
<b>Sulfate</b>	<b>170</b>		5.0	1.9	mg/L			09/23/19 12:45	5

**Method: EPA 6020 - Metals (ICP/MS) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 22:32	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Barium</b>	<b>0.041</b>		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 22:32	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 22:32	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 22:32	1
Chromium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Cobalt</b>	<b>0.012</b>		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 22:32	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 22:32	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 22:32	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Nickel</b>	<b>0.0067</b>		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 22:32	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 22:32	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 22:32	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Zinc</b>	<b>0.019</b>	<b>B</b>	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Calcium</b>	<b>18</b>		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 22:32	1
<b>Boron</b>	<b>0.91</b>		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 22:32	1

**Method: EPA 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 14:19	1

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# Client Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

**Client Sample ID: FD-2(PA)**  
**Date Collected: 09/12/19 00:00**  
**Date Received: 09/14/19 09:45**

**Lab Sample ID: 180-95743-18**  
**Matrix: Water**

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			09/19/19 15:51	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

**Lab Sample ID: MB 180-292202/37**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			09/22/19 19:38	1
Fluoride	<0.026		0.10	0.026	mg/L			09/22/19 19:38	1
Sulfate	<0.38		1.0	0.38	mg/L			09/22/19 19:38	1

**Lab Sample ID: LCS 180-292202/36**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	23.3		mg/L		93	90 - 110
Fluoride	1.25	1.21		mg/L		97	90 - 110
Sulfate	25.0	23.1		mg/L		92	90 - 110

**Lab Sample ID: 180-95743-1 MS**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.4		25.0	29.5		mg/L		104	80 - 120
Fluoride	0.040	J	1.25	1.38		mg/L		107	80 - 120
Sulfate	1.3		25.0	27.4		mg/L		104	80 - 120

**Lab Sample ID: 180-95743-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: GWA-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3.4		25.0	29.2		mg/L		103	80 - 120	1	20
Fluoride	0.040	J	1.25	1.37		mg/L		106	80 - 120	1	20
Sulfate	1.3		25.0	27.1		mg/L		103	80 - 120	1	20

**Lab Sample ID: 180-95743-13 MS**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: FD-1(PA)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.0		25.0	33.3		mg/L		105	80 - 120
Fluoride	0.030	J	1.25	1.38		mg/L		108	80 - 120
Sulfate	0.89	J	25.0	27.5		mg/L		106	80 - 120

**Lab Sample ID: 180-95743-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 292202**

**Client Sample ID: FD-1(PA)**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.0		25.0	33.0		mg/L		104	80 - 120	1	20
Fluoride	0.030	J	1.25	1.36		mg/L		107	80 - 120	1	20
Sulfate	0.89	J	25.0	26.8		mg/L		104	80 - 120	2	20

# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 300.0 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-292226/6  
Matrix: Water  
Analysis Batch: 292226

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.38		1.0	0.38	mg/L			09/23/19 07:45	1

Lab Sample ID: LCS 180-292226/5  
Matrix: Water  
Analysis Batch: 292226

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	25.0	24.9		mg/L		99	90 - 110

## Method: EPA 6020 - Metals (ICP/MS)

Lab Sample ID: MB 180-292485/1-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 292485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00038		0.0025	0.00038	mg/L		09/24/19 14:32	10/15/19 20:47	1
Arsenic	<0.00032		0.0013	0.00032	mg/L		09/24/19 14:32	10/15/19 20:47	1
Barium	<0.0016		0.010	0.0016	mg/L		09/24/19 14:32	10/15/19 20:47	1
Beryllium	<0.00018		0.0025	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cadmium	<0.00013		0.0025	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Chromium	0.00153	J	0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Cobalt	<0.000075		0.0025	0.000075	mg/L		09/24/19 14:32	10/15/19 20:47	1
Lead	<0.00013		0.0010	0.00013	mg/L		09/24/19 14:32	10/15/19 20:47	1
Selenium	<0.0015		0.0025	0.0015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Thallium	<0.00015		0.00050	0.00015	mg/L		09/24/19 14:32	10/15/19 20:47	1
Nickel	<0.00034		0.0010	0.00034	mg/L		09/24/19 14:32	10/15/19 20:47	1
Vanadium	<0.00099		0.0010	0.00099	mg/L		09/24/19 14:32	10/15/19 20:47	1
Silver	<0.00018		0.0010	0.00018	mg/L		09/24/19 14:32	10/15/19 20:47	1
Copper	<0.00063		0.0020	0.00063	mg/L		09/24/19 14:32	10/15/19 20:47	1
Zinc	0.00348	J	0.0050	0.0032	mg/L		09/24/19 14:32	10/15/19 20:47	1
Calcium	<0.13		0.25	0.13	mg/L		09/24/19 14:32	10/15/19 20:47	1
Boron	<0.039		0.050	0.039	mg/L		09/24/19 14:32	10/15/19 20:47	1

Lab Sample ID: LCS 180-292485/2-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 292485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.250	0.283		mg/L		113	80 - 120
Arsenic	1.00	0.984		mg/L		98	80 - 120
Barium	1.00	1.09		mg/L		109	80 - 120
Beryllium	0.500	0.529		mg/L		106	80 - 120
Cadmium	0.500	0.535		mg/L		107	80 - 120
Chromium	0.500	0.540		mg/L		108	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.500	0.529		mg/L		106	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.07		mg/L		107	80 - 120

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# QC Sample Results

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Method: EPA 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-292485/2-A  
Matrix: Water  
Analysis Batch: 294986

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 292485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.500	0.500		mg/L		100	80 - 120
Vanadium	0.500	0.542		mg/L		108	80 - 120
Silver	0.250	0.290		mg/L		116	80 - 120
Copper	0.500	0.491		mg/L		98	80 - 120
Zinc	0.250	0.277		mg/L		111	80 - 120
Calcium	25.0	26.5		mg/L		106	80 - 120
Boron	1.25	1.29		mg/L		103	80 - 120

## Method: EPA 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-293528/1-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00010		0.00020	0.00010	mg/L		10/02/19 15:33	10/03/19 13:55	1

Lab Sample ID: LCS 180-293528/2-A  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00250	0.00249		mg/L		100	80 - 120

Lab Sample ID: 180-95743-1 MS  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: GWA-21  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00010		0.00100	0.00103		mg/L		103	75 - 125

Lab Sample ID: 180-95743-1 MSD  
Matrix: Water  
Analysis Batch: 293683

Client Sample ID: GWA-21  
Prep Type: Total/NA  
Prep Batch: 293528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	<0.00010		0.00100	0.00103		mg/L		103	75 - 125	1	20

## Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-291935/2  
Matrix: Water  
Analysis Batch: 291935

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 12:28	1

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# QC Sample Results

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

**Lab Sample ID: LCS 180-291935/1**  
**Matrix: Water**  
**Analysis Batch: 291935**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	600		mg/L		95	80 - 120

**Lab Sample ID: MB 180-291983/2**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			09/19/19 15:51	1

**Lab Sample ID: LCS 180-291983/1**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	633	596		mg/L		94	80 - 120

**Lab Sample ID: 180-95743-15 DU**  
**Matrix: Water**  
**Analysis Batch: 291983**

**Client Sample ID: GWC-53**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		302		mg/L		1	10

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## HPLC/IC

### Analysis Batch: 292202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-2	GWA-22	Total/NA	Water	EPA 300.0 R2.1	
180-95743-3	GWA-47	Total/NA	Water	EPA 300.0 R2.1	
180-95743-4	GWA-46	Total/NA	Water	EPA 300.0 R2.1	
180-95743-5	GWA-48	Total/NA	Water	EPA 300.0 R2.1	
180-95743-6	GWA-49	Total/NA	Water	EPA 300.0 R2.1	
180-95743-7	GWC-29	Total/NA	Water	EPA 300.0 R2.1	
180-95743-8	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-95743-9	GWC-52	Total/NA	Water	EPA 300.0 R2.1	
180-95743-10	FB-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-11	EB-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-12	EB-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-14	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-95743-15	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-95743-16	GWC-50	Total/NA	Water	EPA 300.0 R2.1	
180-95743-17	FB-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292202/37	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292202/36	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-95743-1 MS	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-1 MSD	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13 MS	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	
180-95743-13 MSD	FD-1(PA)	Total/NA	Water	EPA 300.0 R2.1	

### Analysis Batch: 292226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-14	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-95743-15	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-292226/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-292226/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

## Metals

### Prep Batch: 292485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total Recoverable	Water	3005A	
180-95743-2	GWA-22	Total Recoverable	Water	3005A	
180-95743-3	GWA-47	Total Recoverable	Water	3005A	
180-95743-4	GWA-46	Total Recoverable	Water	3005A	
180-95743-5	GWA-48	Total Recoverable	Water	3005A	
180-95743-6	GWA-49	Total Recoverable	Water	3005A	
180-95743-7	GWC-29	Total Recoverable	Water	3005A	
180-95743-8	GWC-51	Total Recoverable	Water	3005A	
180-95743-9	GWC-52	Total Recoverable	Water	3005A	
180-95743-10	FB-1(PA)	Total Recoverable	Water	3005A	
180-95743-11	EB-1(PA)	Total Recoverable	Water	3005A	
180-95743-12	EB-2(PA)	Total Recoverable	Water	3005A	
180-95743-13	FD-1(PA)	Total Recoverable	Water	3005A	
180-95743-14	GWA-45	Total Recoverable	Water	3005A	

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# QC Association Summary

Client: Southern Company  
 Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
 SDG: PAC Ash Cell

## Metals (Continued)

### Prep Batch: 292485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-15	GWC-53	Total Recoverable	Water	3005A	
180-95743-16	GWC-50	Total Recoverable	Water	3005A	
180-95743-17	FB-2(PA)	Total Recoverable	Water	3005A	
180-95743-18	FD-2(PA)	Total Recoverable	Water	3005A	
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 293528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	7470A	
180-95743-2	GWA-22	Total/NA	Water	7470A	
180-95743-3	GWA-47	Total/NA	Water	7470A	
180-95743-4	GWA-46	Total/NA	Water	7470A	
180-95743-5	GWA-48	Total/NA	Water	7470A	
180-95743-6	GWA-49	Total/NA	Water	7470A	
180-95743-7	GWC-29	Total/NA	Water	7470A	
180-95743-8	GWC-51	Total/NA	Water	7470A	
180-95743-9	GWC-52	Total/NA	Water	7470A	
180-95743-10	FB-1(PA)	Total/NA	Water	7470A	
180-95743-11	EB-1(PA)	Total/NA	Water	7470A	
180-95743-12	EB-2(PA)	Total/NA	Water	7470A	
180-95743-13	FD-1(PA)	Total/NA	Water	7470A	
180-95743-14	GWA-45	Total/NA	Water	7470A	
180-95743-15	GWC-53	Total/NA	Water	7470A	
180-95743-16	GWC-50	Total/NA	Water	7470A	
180-95743-17	FB-2(PA)	Total/NA	Water	7470A	
180-95743-18	FD-2(PA)	Total/NA	Water	7470A	
MB 180-293528/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-293528/2-A	Lab Control Sample	Total/NA	Water	7470A	
180-95743-1 MS	GWA-21	Total/NA	Water	7470A	
180-95743-1 MSD	GWA-21	Total/NA	Water	7470A	

### Analysis Batch: 293683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	EPA 7470A	293528
180-95743-2	GWA-22	Total/NA	Water	EPA 7470A	293528
180-95743-3	GWA-47	Total/NA	Water	EPA 7470A	293528
180-95743-4	GWA-46	Total/NA	Water	EPA 7470A	293528
180-95743-5	GWA-48	Total/NA	Water	EPA 7470A	293528
180-95743-6	GWA-49	Total/NA	Water	EPA 7470A	293528
180-95743-7	GWC-29	Total/NA	Water	EPA 7470A	293528
180-95743-8	GWC-51	Total/NA	Water	EPA 7470A	293528
180-95743-9	GWC-52	Total/NA	Water	EPA 7470A	293528
180-95743-10	FB-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-11	EB-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-12	EB-2(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-13	FD-1(PA)	Total/NA	Water	EPA 7470A	293528
180-95743-14	GWA-45	Total/NA	Water	EPA 7470A	293528
180-95743-15	GWC-53	Total/NA	Water	EPA 7470A	293528
180-95743-16	GWC-50	Total/NA	Water	EPA 7470A	293528
180-95743-17	FB-2(PA)	Total/NA	Water	EPA 7470A	293528

Eurofins TestAmerica, Pittsburgh

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## Metals (Continued)

### Analysis Batch: 293683 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-18	FD-2(PA)	Total/NA	Water	EPA 7470A	293528
MB 180-293528/1-A	Method Blank	Total/NA	Water	EPA 7470A	293528
LCS 180-293528/2-A	Lab Control Sample	Total/NA	Water	EPA 7470A	293528
180-95743-1 MS	GWA-21	Total/NA	Water	EPA 7470A	293528
180-95743-1 MSD	GWA-21	Total/NA	Water	EPA 7470A	293528

### Analysis Batch: 294986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total Recoverable	Water	EPA 6020	292485
180-95743-2	GWA-22	Total Recoverable	Water	EPA 6020	292485
180-95743-3	GWA-47	Total Recoverable	Water	EPA 6020	292485
180-95743-4	GWA-46	Total Recoverable	Water	EPA 6020	292485
180-95743-5	GWA-48	Total Recoverable	Water	EPA 6020	292485
180-95743-6	GWA-49	Total Recoverable	Water	EPA 6020	292485
180-95743-7	GWC-29	Total Recoverable	Water	EPA 6020	292485
180-95743-8	GWC-51	Total Recoverable	Water	EPA 6020	292485
180-95743-9	GWC-52	Total Recoverable	Water	EPA 6020	292485
180-95743-10	FB-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-11	EB-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-12	EB-2(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-13	FD-1(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-14	GWA-45	Total Recoverable	Water	EPA 6020	292485
180-95743-15	GWC-53	Total Recoverable	Water	EPA 6020	292485
180-95743-16	GWC-50	Total Recoverable	Water	EPA 6020	292485
180-95743-17	FB-2(PA)	Total Recoverable	Water	EPA 6020	292485
180-95743-18	FD-2(PA)	Total Recoverable	Water	EPA 6020	292485
MB 180-292485/1-A	Method Blank	Total Recoverable	Water	EPA 6020	292485
LCS 180-292485/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020	292485

## General Chemistry

### Analysis Batch: 291935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-1	GWA-21	Total/NA	Water	SM 2540C	
180-95743-2	GWA-22	Total/NA	Water	SM 2540C	
180-95743-3	GWA-47	Total/NA	Water	SM 2540C	
180-95743-4	GWA-46	Total/NA	Water	SM 2540C	
180-95743-5	GWA-48	Total/NA	Water	SM 2540C	
180-95743-6	GWA-49	Total/NA	Water	SM 2540C	
180-95743-7	GWC-29	Total/NA	Water	SM 2540C	
180-95743-8	GWC-51	Total/NA	Water	SM 2540C	
180-95743-9	GWC-52	Total/NA	Water	SM 2540C	
180-95743-10	FB-1(PA)	Total/NA	Water	SM 2540C	
180-95743-11	EB-1(PA)	Total/NA	Water	SM 2540C	
180-95743-12	EB-2(PA)	Total/NA	Water	SM 2540C	
180-95743-13	FD-1(PA)	Total/NA	Water	SM 2540C	
180-95743-14	GWA-45	Total/NA	Water	SM 2540C	
MB 180-291935/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291935/1	Lab Control Sample	Total/NA	Water	SM 2540C	

# QC Association Summary

Client: Southern Company  
Project/Site: CCR - Plant Scherer

Job ID: 180-95743-1  
SDG: PAC Ash Cell

## General Chemistry

### Analysis Batch: 291983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-95743-15	GWC-53	Total/NA	Water	SM 2540C	
180-95743-16	GWC-50	Total/NA	Water	SM 2540C	
180-95743-17	FB-2(PA)	Total/NA	Water	SM 2540C	
180-95743-18	FD-2(PA)	Total/NA	Water	SM 2540C	
MB 180-291983/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-291983/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-95743-15 DU	GWC-53	Total/NA	Water	SM 2540C	

**Client Contact**  
 Joju Abraham  
 Southern Company  
 241 Ralph McGill Blvd SE B10186  
 Atlanta, GA 30308  
 jAbraham@southernco.com  
 Project Name: CCR - Plant Scherer PAC Ash Cell  
 Site: Georgia  
 P.O. # 18019684

**Project Manager: Dawn Prell**  
 Tel/Fax: 248-536-5445

**Analysis Turnaround Time**  
 CALENDAR DAYS  WORKING DAYS  
 TAT if different from Below \_\_\_\_\_  
 2 weeks  
 1 week  
 2 days  
 1 day

**Site Contact: Karim Minkara**  
**Lab Contact: Veronica Bortot**

**Date: 9/13/2019**  
**Carrier:**

COC No: \_\_\_\_\_ of \_\_\_\_\_ COCs

**Sampler:**  
**For Lab Use Only:**  
**Walk-in Client:**  
**Lab Sampling:**  
**Job / SDG No.:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	State Metals* 6020, 7470A: Appendix III Metals +	CI, F, SO4, TDS	Sample Specific Notes:
GWA-21	9/12/2019	1415	G	Water	2			X	X	
GWA-22	9/12/2019	1310	G	Water	2			X	X	
GWA-47	9/12/2019	1349	G	Water	2			X	X	
GWA-46	9/12/2019	1517	G	Water	2			X	X	
GWA-48	9/12/2019	1152	G	Water	2			X	X	
GWA-49	9/12/2019	1355	G	Water	2			X	X	
GWC-29	9/12/2019	1550	G	Water	2			X	X	
GWC-51	9/12/2019	1450	G	Water	2			X	X	
GWC-52	9/12/2019	1600	G	Water	2			X	X	
FB-1 (PA)	9/12/2019	1514	G	Water	2			X	X	
EB-1 (PA)	9/12/2019	1645	G	Water	2			X	X	
EB-2 (PA)	9/12/2019	1650	G	Water	2			X	X	
FD-1 (PA)	9/12/2019	--	G	Water	2			X	X	
						4	1			



**Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other**

**Possible Hazard Identification:**  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  
 Poison B  Unknown

**Special Instructions/QC Requirements & Comments:**  
 \*State metals: An, As, Ba, B, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Custody Seal No.:** \_\_\_\_\_

**Relinquished by:** *[Signature]* **Date/Time:** 9-13-19 1325  
**Company:** Greiner  
**Received by:** *[Signature]* **Date/Time:** 9-13-19 1341  
**Company:** J. Albrecht  
**Received by:** *[Signature]* **Date/Time:** 9-19-19  
**Company:** *[Signature]*

**Therm ID No.:** \_\_\_\_\_  
**Cooler Temp. (°C):** Obs'd: \_\_\_\_\_  
**Corr'd:** \_\_\_\_\_





TestAmerica Pittsburgh  
301 Alpha Drive  
RIDC Park  
Pittsburgh, PA, 15238-2907  
phone 412.963.7058 fax 412.963.2468

### Chain of Custody Record

TestAmerica  
Pittsburgh, PA, 15238-2907  
phone 412.963.7058 fax 412.963.2468

Regulatory Program:  DW  NPDES  RCRA  Other:  **TestAmerica Laboratories, Inc.**

<b>Client Contact</b>	Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 jAbraham@southernco.com Project Name: CCR - Plant Scherer PAC Ash Cell Site: Georgia P O # 18019884	<b>Project Manager: Dawn Preil</b> Tel/Fax: 248-536-5445 <b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	<b>Site Contact: Karim Minkara</b> <b>Lab Contact: Veronica Bortot</b>	<b>Date: 9/13/2019</b> <b>Carrier:</b>	<b>COC No:</b> 2 ____ of 2 ____ COCs
-----------------------	--	---	---	---	---

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	6020, 7470A: Appendix III Metals + State Metals*	CI, F, SO4, TDS	Sample Specific Notes:
GWA-45	9/12/2019	908	G	Water	2			X	X	
GWC-53	9/12/2019	0925	G	Water	2			X	X	
GWC-50	9/12/2019	1040	G	Water	2			X	X	
FB-2 (PA)	9/12/2019	0858	G	Water	2			X	X	
FD-2 (PA)	9/12/2019	--	G	Water	2			X	X	

**Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other**  
**Possible Hazard Identification:**  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Unknown  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:**  
 \*State metals: An, As, Ba, Bi, Be, Ca, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Th, V, Zn

Cooler Temp. (°C): Obs'd: \_\_\_\_\_ Cor'd: \_\_\_\_\_ Therm ID No.: \_\_\_\_\_

Relinquished by: <i>John C</i>	Company: <i>Gekler</i>	Date/Time: <i>9-13-19</i>	Received by: <i>Bryan Watson</i>	Company: <i>AFIT</i>	Date/Time: <i>9-14-19</i>	Therm ID No.: <i>945</i>
Relinquished by: _____	Company: _____	Date/Time: _____	Received by: _____	Company: _____	Date/Time: _____	Therm ID No.: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____	Date/Time: _____	Therm ID No.: _____

Form No. CA-C-WI-002, Rev. 4.20, dated 2/28/2019





180-95743 Waybill

INS

Environment Testing  
TestAmerica

Part # 159469-434 RIT2 EXP 05/20

*Handwritten:* Done at 9/16/19 8/30

ORIGIN ID:MULA (678) 966-9991  
GEORGE TAYLOR  
EUROFINSTESTAMERICA, ATLANTA  
6500 MCDONOUGH DRIVE

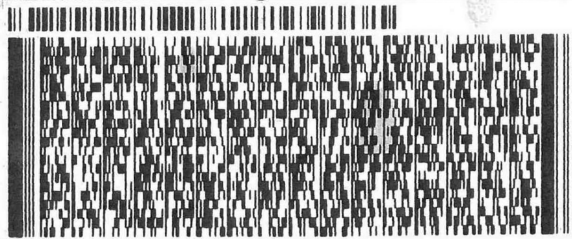
SHIP DATE: 13SEP19  
ACTWGT: 55.50 LB  
CAD: 859116/CAFE3211

NORCROSS, GA 30093  
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIVING  
TA PITTSBURGH  
301 ALPHA DRIVE  
RIDC PARK  
PITTSBURGH PA 15238**

(412) 963-7066  
REF: GOLDER



FedEx  
Express



JFO1/PUBR/1J155

4 of 4

MPS# 4651 0083 6596  
0269  
Mstr# 4651 0083 6563

0201

**SATURDAY 12:00P  
PRIORITY OVERNIGHT**

**XO AGCA**

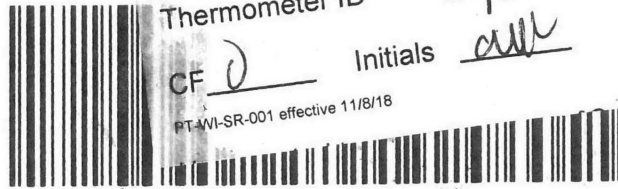
**15238  
PIT**

Uncorrected temp  
Thermometer ID

*Handwritten:* 15.5  
10  
DA °C

CF D Initials all

PT-WI-SR-001 effective 11/8/18



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95743-1  
SDG Number: PAC Ash Cell

**Login Number: 95743**

**List Number: 1**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-95743-1  
SDG Number: PAC Ash Cell

**Login Number: 95743**

**List Number: 2**

**Creator: Watson, Debbie**

**List Source: Eurofins TestAmerica, Pittsburgh**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





**[golder.com](http://golder.com)**

**APPENDIX C**

**1st SEMI-ANNUAL 2019  
STATISTICAL ANALYSES REPORTS**

**STATISTICAL ANALYSES REPORTS**

**CELL 1**

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWC-8A	44.85	n/a	3/27/2019	47	Yes	10	0	No	0.01	Param Intra
Sulfate (mg/L)	GWA-15	1.2	n/a	3/26/2019	2.1	Yes	11	72.73	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-10	1.2	n/a	3/27/2019	1.6	Yes	11	27.27	n/a	0.08333	NP Intra (normality)
Sulfate (mg/L)	GWC-13	0.646	n/a	3/26/2019	1.3	Yes	11	81.82	n/a	0.08333	NP Intra (NDs)
Total Dissolved Solids (mg/L)	GWC-8A	239.7	n/a	3/27/2019	300	Yes	9	0	No	0.01	Param Intra

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWA-15	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWA-16	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWA-17	0.05	n/a	3/26/2019	0.0105ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-1	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-10	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-11	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-12	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-13	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-14	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-18	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-19	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-2	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-20	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-3	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-4	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-5	0.6067	n/a	3/27/2019	0.33	No	10	0	No	0.01	Param Intra
Boron (mg/L)	GWC-6	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-7	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-8A	0.3641	n/a	3/27/2019	0.16	No	10	0	No	0.01	Param Intra
Boron (mg/L)	GWC-9	0.1352	n/a	3/27/2019	0.067	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-15	5.687	n/a	3/26/2019	4	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-16	15.11	n/a	3/26/2019	11	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-17	8.772	n/a	3/26/2019	6.7	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-1	21.14	n/a	3/26/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-10	20.3	n/a	3/27/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-11	15.33	n/a	3/27/2019	12	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-12	1.454	n/a	3/26/2019	1.1	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-13	7.782	n/a	3/26/2019	6.3	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-14	7.708	n/a	3/26/2019	6.4	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-18	12.39	n/a	3/26/2019	9.6	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-19	13.55	n/a	3/26/2019	11	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-2	21.39	n/a	3/26/2019	17	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-20	16.46	n/a	3/26/2019	12	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-3	10.99	n/a	3/26/2019	7.3	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-4	17.29	n/a	3/26/2019	13	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-5	219.9	n/a	3/27/2019	75	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-6	21.37	n/a	3/26/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-7	16.72	n/a	3/27/2019	14	No	11	0	ln(x)	0.01	Param Intra
<b>Calcium (mg/L)</b>	<b>GWC-8A</b>	<b>44.85</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>47</b>	<b>Yes</b>	<b>10</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param Intra</b>
Calcium (mg/L)	GWC-9	20.34	n/a	3/27/2019	16	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWA-15	6.3	n/a	3/26/2019	5.5	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWA-16	2.193	n/a	3/26/2019	1.5	No	11	0	sqrt(x)	0.01	Param Intra
Chloride (mg/L)	GWA-17	2.005	n/a	3/26/2019	1.3	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-1	4.633	n/a	3/26/2019	3.6	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-10	2.676	n/a	3/27/2019	2.4	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-11	2.089	n/a	3/27/2019	1.5	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-12	2	n/a	3/26/2019	1.7	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWC-13	2.056	n/a	3/26/2019	1.6	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-14	3.344	n/a	3/26/2019	2.5	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-18	2.724	n/a	3/26/2019	2.7	No	11	0	No	0.01	Param Intra

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GWC-19	1.9	n/a	3/26/2019	1.8	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWC-2	2.612	n/a	3/26/2019	1.9	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-20	2.322	n/a	3/26/2019	1.9	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-3	3.828	n/a	3/26/2019	3	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-4	17.47	n/a	3/26/2019	9.2	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-5	137.9	n/a	3/27/2019	42	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-6	8.837	n/a	3/26/2019	4.2	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-7	1.8	n/a	3/27/2019	1.7	No	9	0	n/a	0.1	NP Intra (normality)
Chloride (mg/L)	GWC-8A	8.636	n/a	3/27/2019	6.6	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-9	4.533	n/a	3/27/2019	3	No	11	0	No	0.01	Param Intra
Fluoride (mg/L)	GWA-15	0.15	n/a	3/26/2019	0.013ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWA-16	0.15	n/a	3/26/2019	0.041	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWA-17	0.15	n/a	3/26/2019	0.042	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-1	0.1	n/a	3/26/2019	0.072	No	11	45.45	n/a	0.08333	NP Intra (Cohens/xform)
Fluoride (mg/L)	GWC-10	0.1	n/a	3/27/2019	0.077	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-11	0.1	n/a	3/27/2019	0.048	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-12	0.15	n/a	3/26/2019	0.026	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-13	0.15	n/a	3/26/2019	0.04	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-14	0.15	n/a	3/26/2019	0.034	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-18	0.15	n/a	3/26/2019	0.046	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-19	0.15	n/a	3/26/2019	0.04	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-2	0.15	n/a	3/26/2019	0.046	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-20	0.15	n/a	3/26/2019	0.045	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-3	0.1	n/a	3/26/2019	0.046	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-4	0.1528	n/a	3/26/2019	0.087	No	11	0	x^2	0.01	Param Intra
Fluoride (mg/L)	GWC-5	0.15	n/a	3/27/2019	0.038	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-6	0.15	n/a	3/26/2019	0.058	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-7	0.12	n/a	3/27/2019	0.04	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-8A	0.2336	n/a	3/27/2019	0.071	No	10	0	No	0.01	Param Intra
Fluoride (mg/L)	GWC-9	0.1	n/a	3/27/2019	0.066	No	11	72.73	n/a	0.08333	NP Intra (NDs)
pH (S.U.)	GWA-15	5.788	5.208	3/26/2019	5.41	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWA-16	6.617	6.149	3/26/2019	6.42	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWA-17	6.425	5.508	3/26/2019	6.12	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-1	6.814	6.22	3/26/2019	6.54	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-10	6.718	5.935	3/27/2019	6.53	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-11	6.413	5.924	3/27/2019	6.22	No	14	0	No	0.005	Param Intra
pH (S.U.)	GWC-12	5.513	4.766	3/26/2019	5.25	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-13	6.02	5.6	3/26/2019	5.89	No	16	0	n/a	0.1176	NP Intra (normality)
pH (S.U.)	GWC-14	5.906	5.29	3/26/2019	5.63	No	14	0	No	0.005	Param Intra
pH (S.U.)	GWC-18	6.499	6.117	3/26/2019	6.38	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-19	6.466	6.311	3/26/2019	6.371	No	14	0	No	0.005	Param Intra Deseas
pH (S.U.)	GWC-2	7	6.35	3/26/2019	6.44	No	14	0	n/a	0.1333	NP Intra (normality)
pH (S.U.)	GWC-20	6.713	6.285	3/26/2019	6.52	No	15	0	x^3	0.005	Param Intra
pH (S.U.)	GWC-3	6.149	5.699	3/26/2019	6.02	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-4	6.609	5.849	3/26/2019	6.34	No	15	0	x^5	0.005	Param Intra
pH (S.U.)	GWC-5	6.14	5.55	3/27/2019	5.78	No	15	0	n/a	0.125	NP Intra (normality)
pH (S.U.)	GWC-6	6.36	6.09	3/26/2019	6.25	No	15	0	n/a	0.125	NP Intra (normality)
pH (S.U.)	GWC-7	6.42	5.96	3/27/2019	6.38	No	14	0	n/a	0.1333	NP Intra (normality)
pH (S.U.)	GWC-8A	7.26	6.24	3/27/2019	6.69	No	18	0	n/a	0.1053	NP Intra (normality)
pH (S.U.)	GWC-9	6.832	6.353	3/27/2019	6.644	No	15	0	No	0.005	Param Intra Deseas

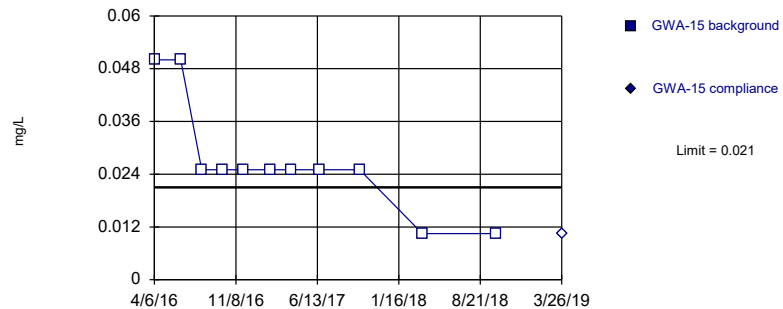


# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
<b>Sulfate (mg/L)</b>	<b>GWA-15</b>	<b>1.2</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>2.1</b>	<b>Yes</b>	<b>11</b>	<b>72.73</b>	<b>n/a</b>	<b>0.08333</b>	<b>NP Intra (NDs)</b>
Sulfate (mg/L)	GWA-16	0.7	n/a	3/26/2019	0.19ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWA-17	0.7	n/a	3/26/2019	0.58	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-1	1	n/a	3/26/2019	0.53	No	11	54.55	n/a	0.08333	NP Intra (NDs)
<b>Sulfate (mg/L)</b>	<b>GWC-10</b>	<b>1.2</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>1.6</b>	<b>Yes</b>	<b>11</b>	<b>27.27</b>	<b>n/a</b>	<b>0.08333</b>	<b>NP Intra (normality)</b>
Sulfate (mg/L)	GWC-11	0.5	n/a	3/27/2019	0.19ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-12	0.5	n/a	3/26/2019	0.49	No	11	90.91	n/a	0.08333	NP Intra (NDs)
<b>Sulfate (mg/L)</b>	<b>GWC-13</b>	<b>0.646</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>1.3</b>	<b>Yes</b>	<b>11</b>	<b>81.82</b>	<b>n/a</b>	<b>0.08333</b>	<b>NP Intra (NDs)</b>
Sulfate (mg/L)	GWC-14	0.5	n/a	3/26/2019	0.64	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-18	0.7	n/a	3/26/2019	0.39	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-19	0.7	n/a	3/26/2019	0.19ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-2	0.56	n/a	3/26/2019	0.99	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-20	0.7	n/a	3/26/2019	0.45	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-3	1.1	n/a	3/26/2019	0.47	No	11	72.73	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-4	6.692	n/a	3/26/2019	3.2	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-5	647.8	n/a	3/27/2019	260	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-6	17.91	n/a	3/26/2019	6.3	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-7	0.5	n/a	3/27/2019	0.51	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-8A	47.2	n/a	3/27/2019	18	No	10	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-9	18.43	n/a	3/27/2019	6.8	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-15	76.84	n/a	3/26/2019	45	No	11	9.091	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-16	167	n/a	3/26/2019	100	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-17	148.9	n/a	3/26/2019	82	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-1	169.2	n/a	3/26/2019	150	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-10	179	n/a	3/27/2019	140	No	10	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-11	293	n/a	3/27/2019	100	No	11	0	n/a	0.08333	NP Intra (normality)
Total Dissolved Solids (mg/L)	GWC-12	110	n/a	3/26/2019	29	No	11	36.36	n/a	0.08333	NP Intra (Cohens/xform)
Total Dissolved Solids (mg/L)	GWC-13	120.4	n/a	3/26/2019	59	No	10	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-14	112.8	n/a	3/26/2019	60	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-18	128.7	n/a	3/26/2019	94	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-19	146.4	n/a	3/26/2019	100	No	11	0	x^2	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-2	202.5	n/a	3/26/2019	130	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-20	151.7	n/a	3/26/2019	110	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-3	116.4	n/a	3/26/2019	86	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-4	172.9	n/a	3/26/2019	130	No	10	0	ln(x)	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-5	1510	n/a	3/27/2019	580	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-6	189.6	n/a	3/26/2019	130	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-7	163.5	n/a	3/27/2019	120	No	11	0	No	0.01	Param Intra
<b>Total Dissolved Solids (mg/L)</b>	<b>GWC-8A</b>	<b>239.7</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>300</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param Intra</b>
Total Dissolved Solids (mg/L)	GWC-9	220.8	n/a	3/27/2019	140	No	11	0	x^2	0.01	Param Intra

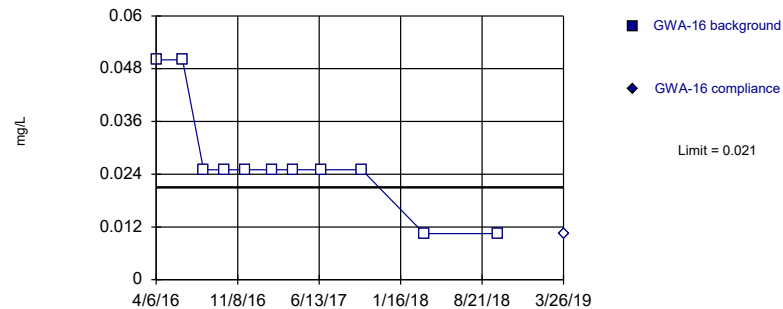
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

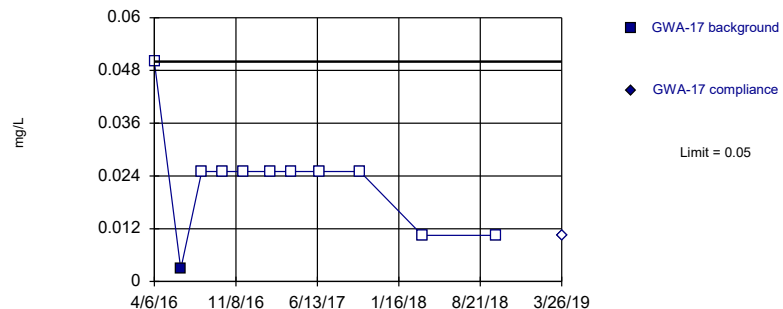
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

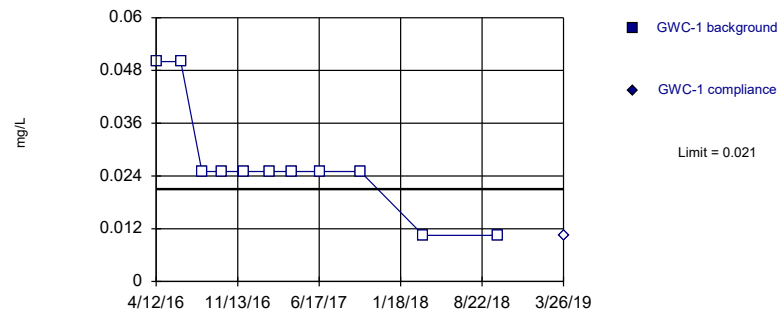
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Non-parametric

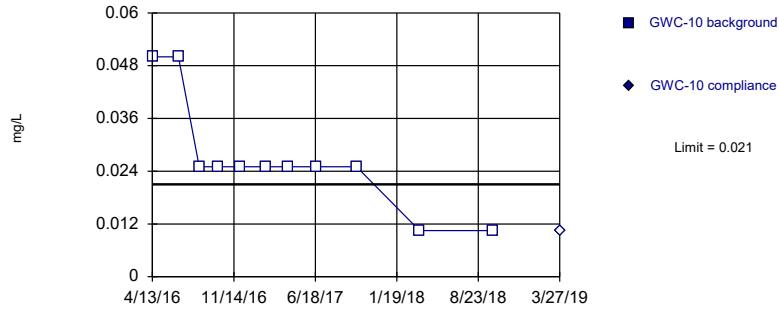


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality; data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

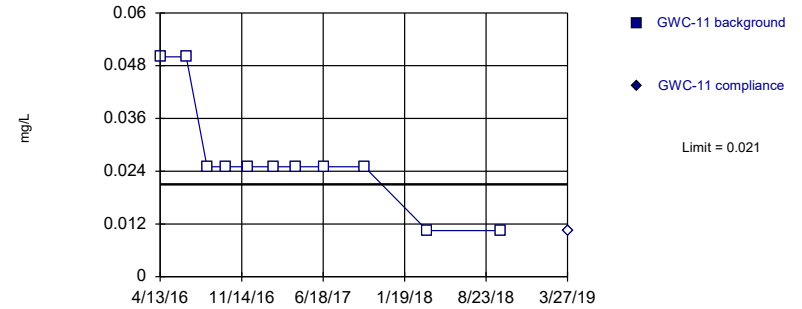


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

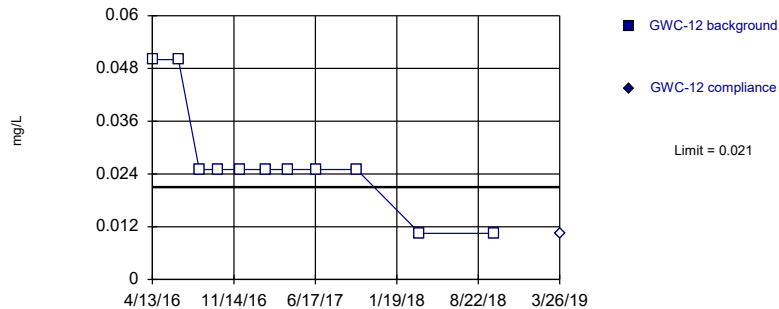


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

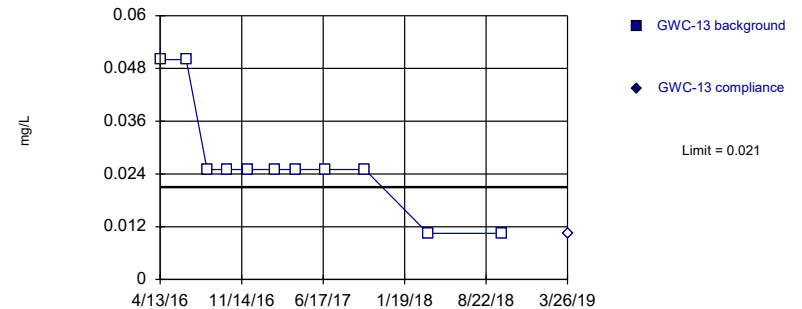


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



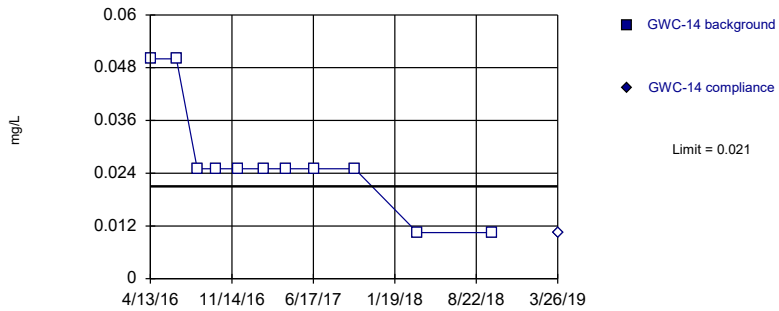
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



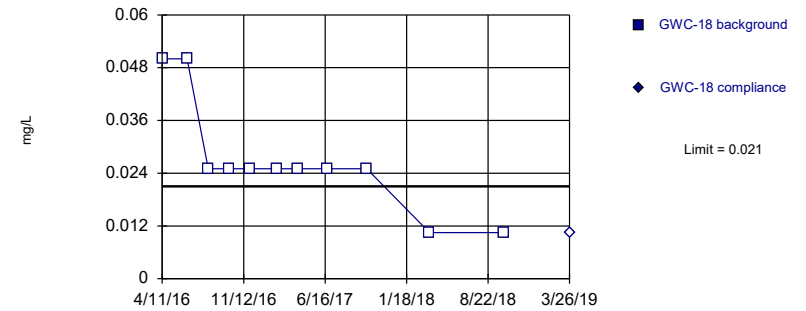
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



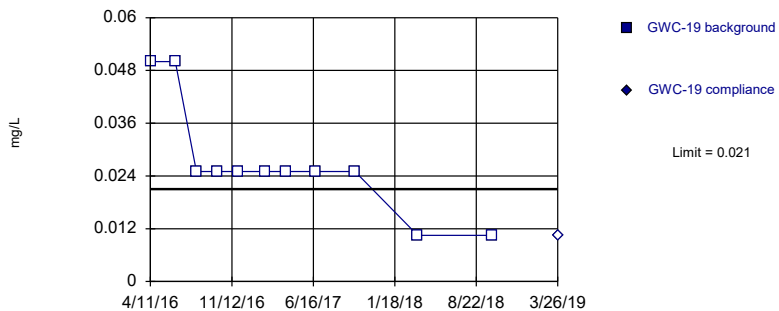
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



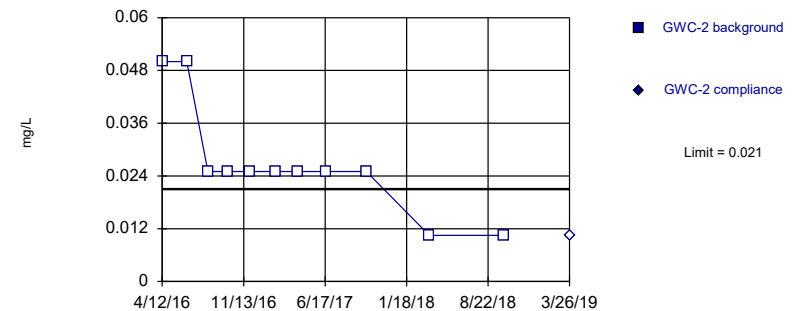
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

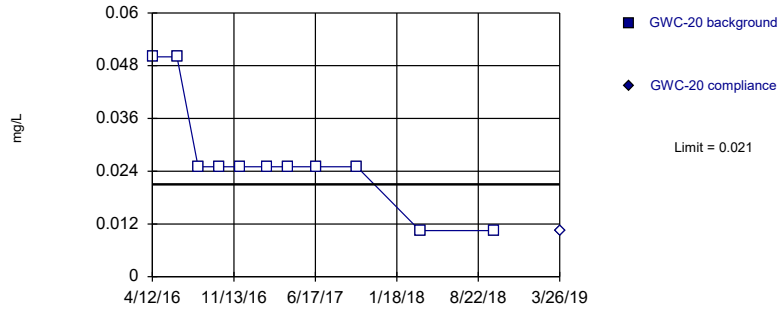


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

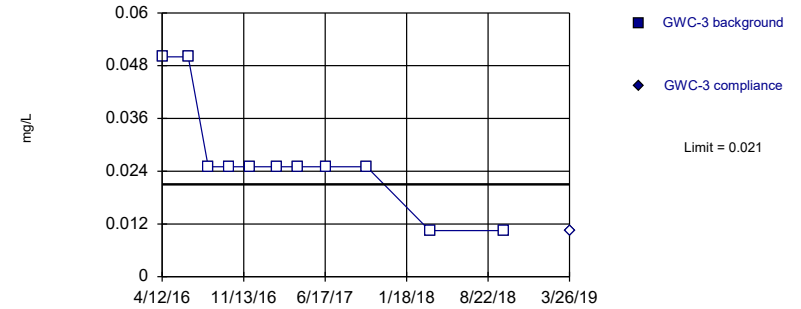


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

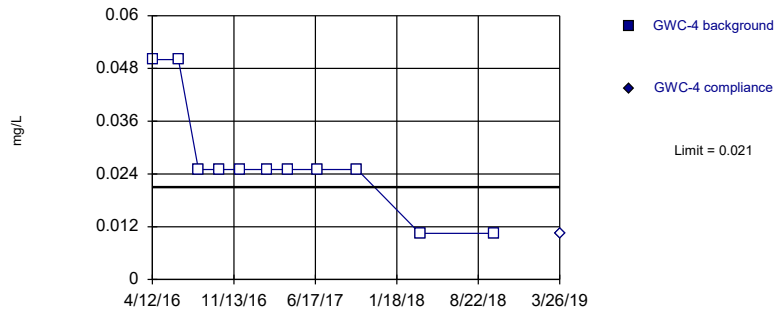


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

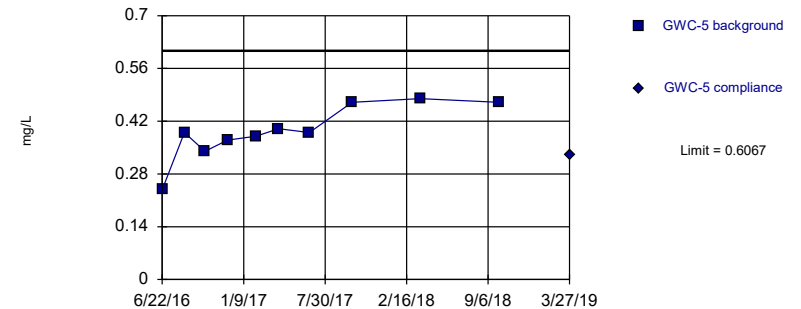


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

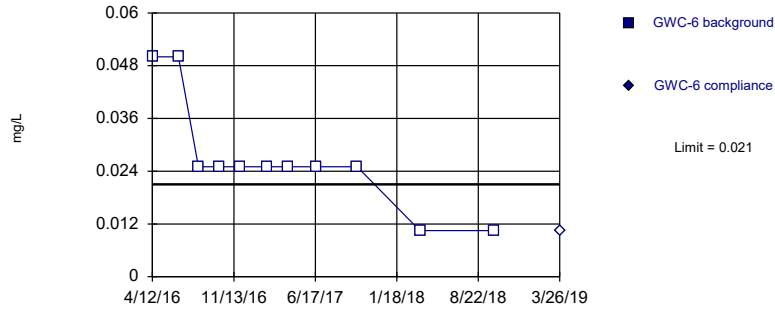
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.3928, Std. Dev.=0.07228, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8982, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

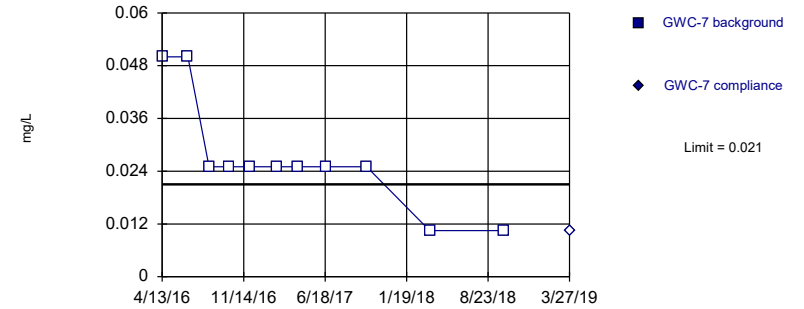
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

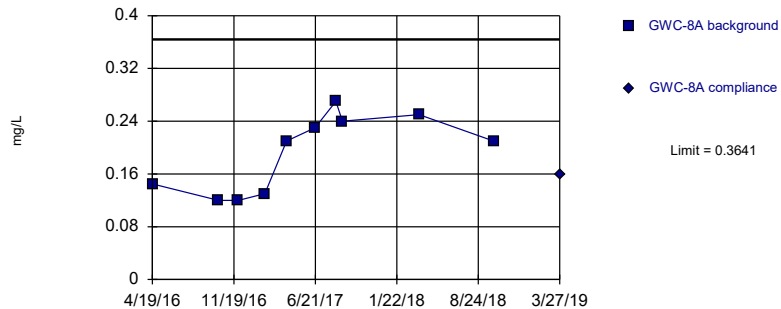
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

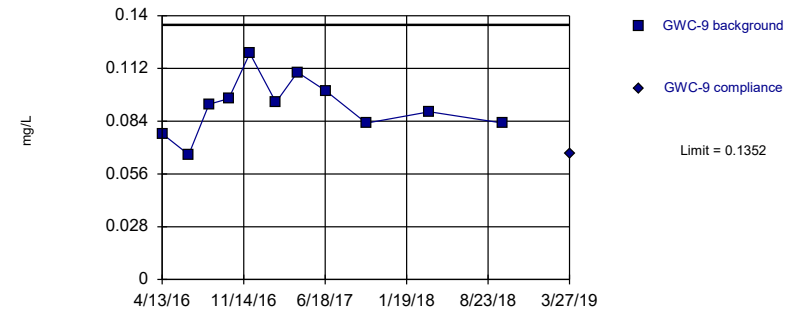
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1925, Std. Dev.=0.05799, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.876, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

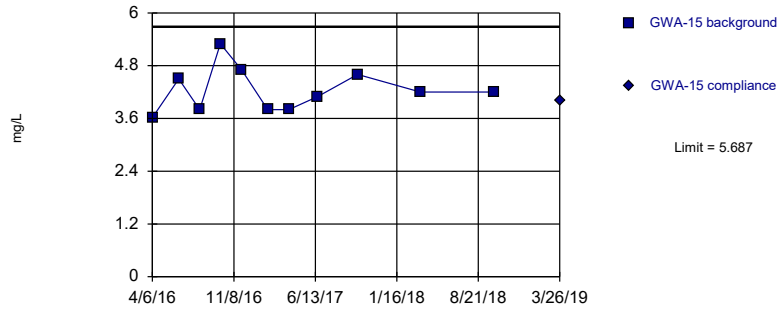
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.09197, Std. Dev.=0.01496, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9843, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

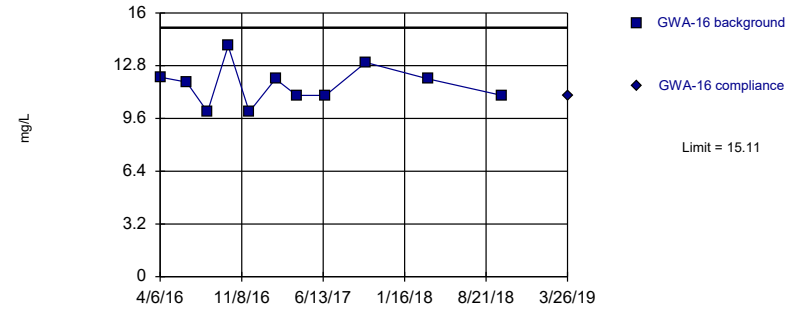
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=4.238, Std. Dev.=0.502, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9253, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

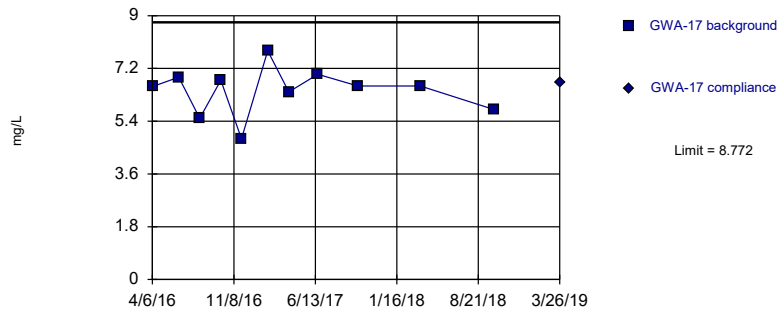
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=11.63, Std. Dev.=1.205, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9406, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

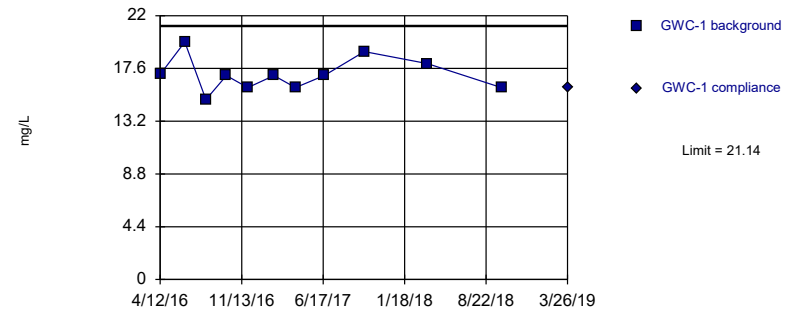
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.435, Std. Dev.=0.8099, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9412, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

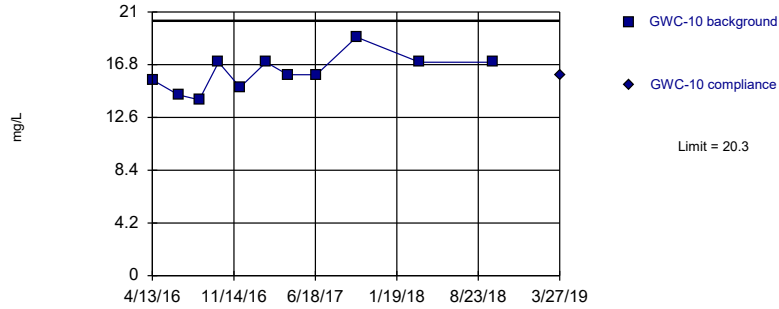


Background Data Summary: Mean=17.08, Std. Dev.=1.406, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9316, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



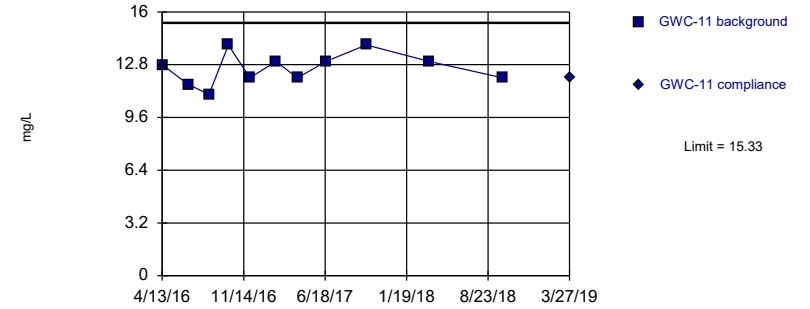
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=16.18, Std. Dev.=1.427, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9441, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

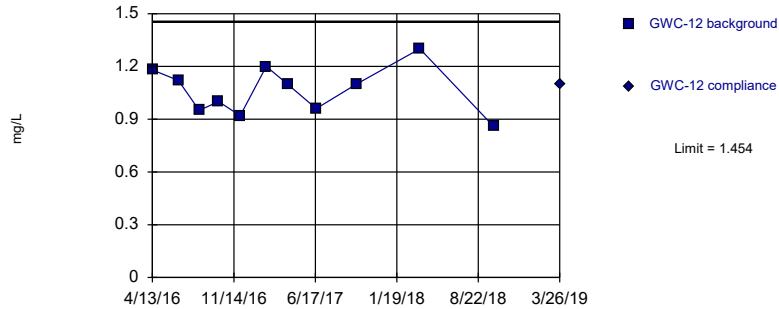
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=12.58, Std. Dev.=0.9527, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9357, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

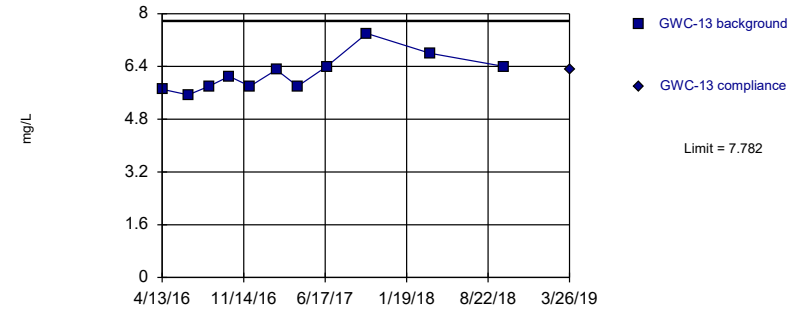
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.063, Std. Dev.=0.1355, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9655, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

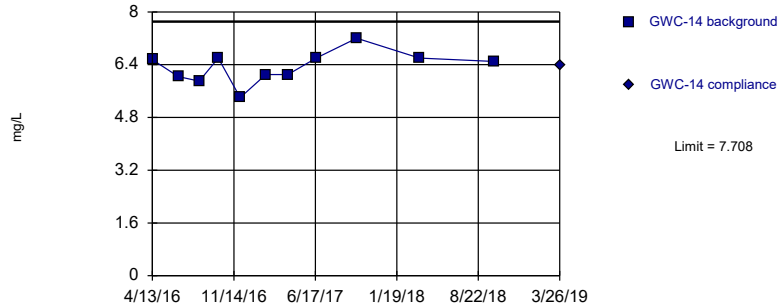
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.186, Std. Dev.=0.5526, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9015, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

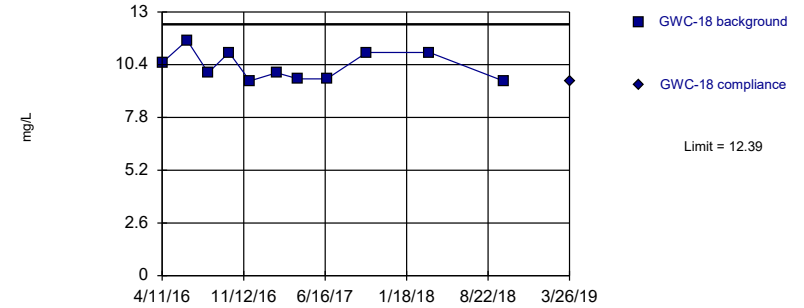
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.326, Std. Dev.=0.4788, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.942, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

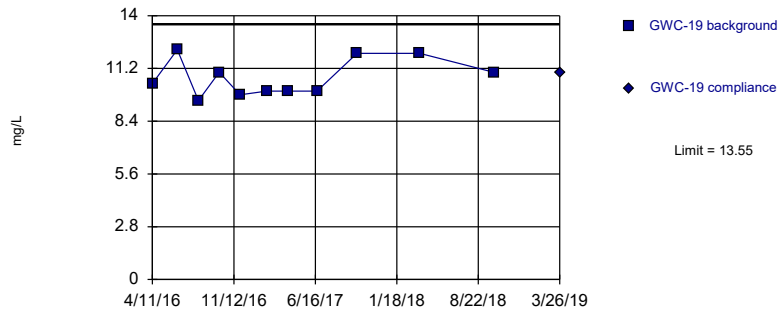
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.34, Std. Dev.=0.7117, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8695, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

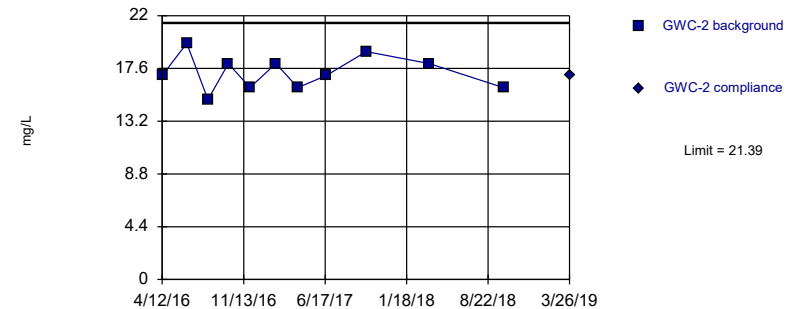
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.72, Std. Dev.=0.9806, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8782, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

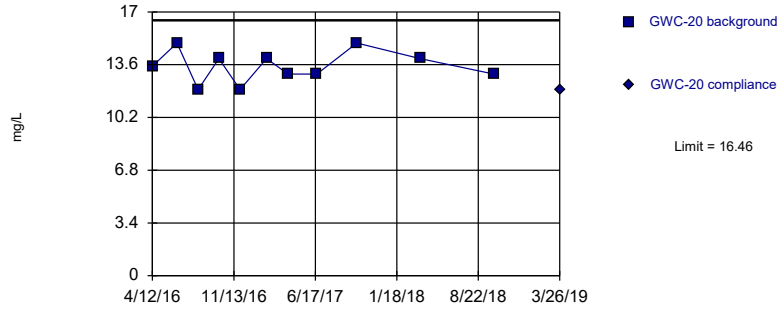


Background Data Summary: Mean=17.25, Std. Dev.=1.436, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9532, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

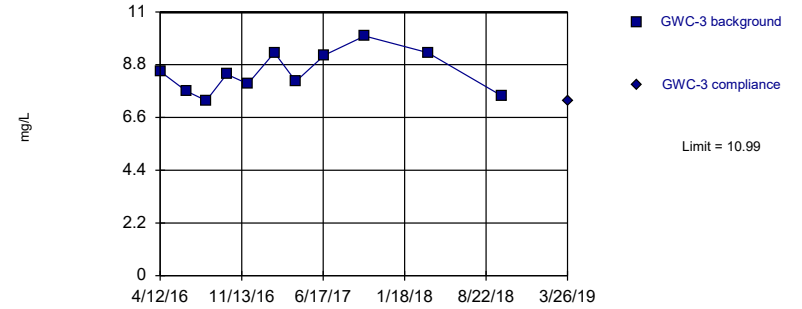


Background Data Summary: Mean=13.5, Std. Dev.=1.025, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.923, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

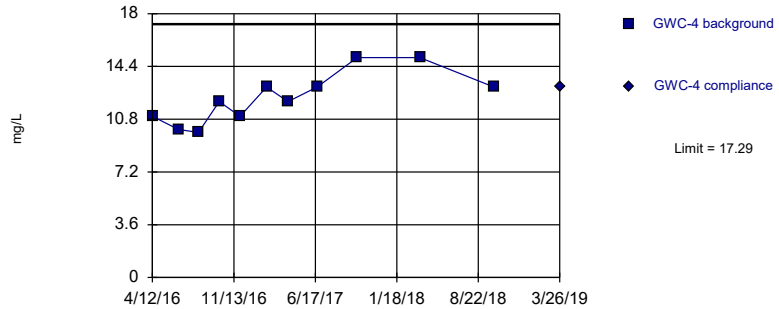


Background Data Summary: Mean=8.484, Std. Dev.=0.867, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9492, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

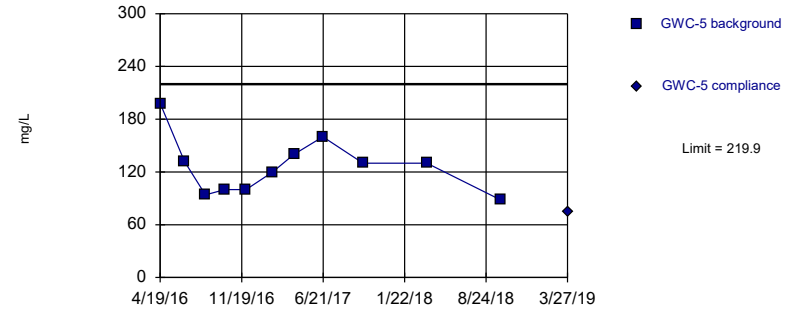


Background Data Summary: Mean=12.27, Std. Dev.=1.738, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9259, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

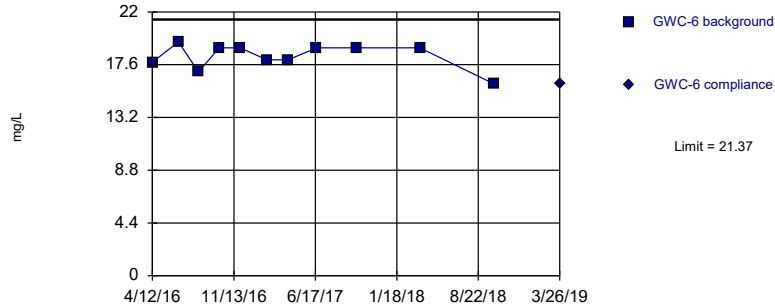
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=126.5, Std. Dev.=32.34, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9147, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

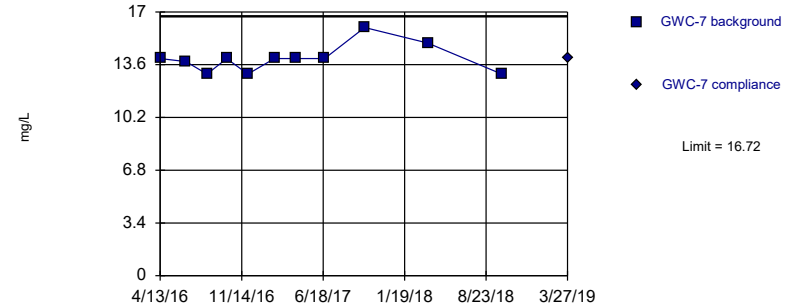
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=18.3, Std. Dev.=1.063, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8543, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

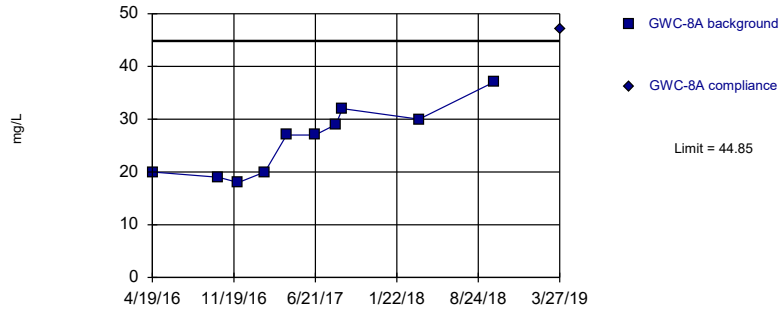
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.636, Std. Dev.=0.06258, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8507, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

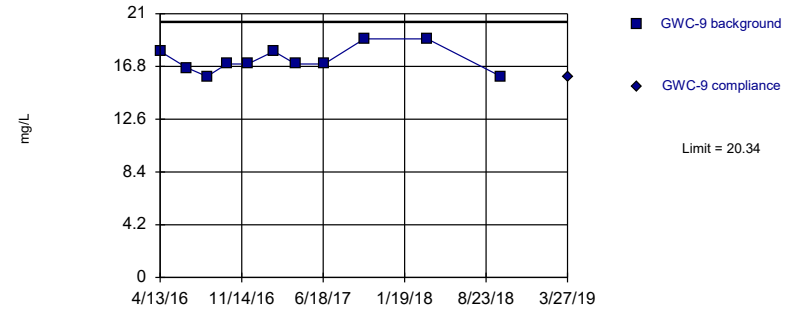
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=25.9, Std. Dev.=6.402, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9203, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

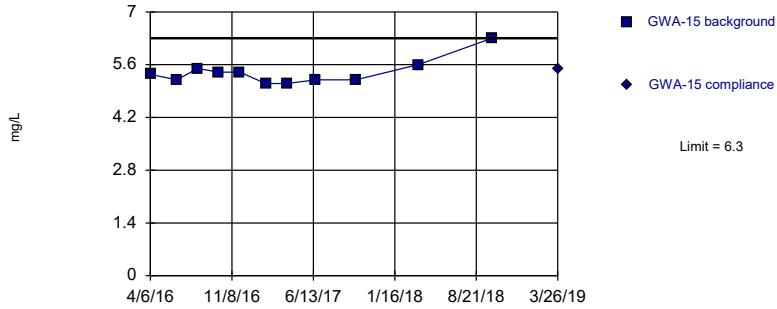


Background Data Summary: Mean=17.34, Std. Dev.=1.041, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8927, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

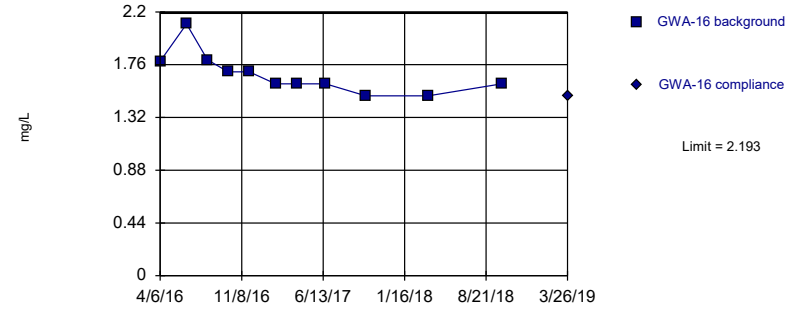


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

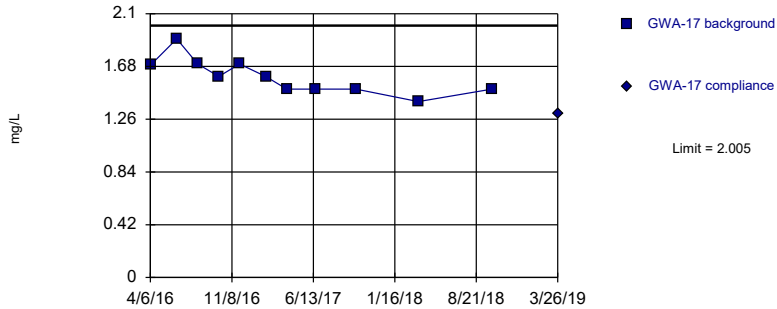


Background Data Summary (based on square root transformation): Mean=1.295, Std. Dev.=0.06434, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.864, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

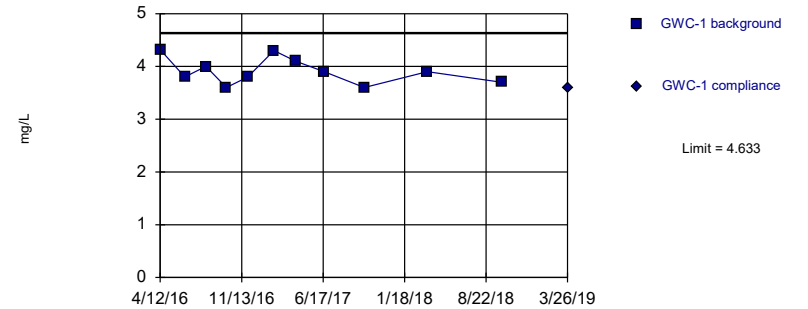


Background Data Summary: Mean=1.599, Std. Dev.=0.1407, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9146, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

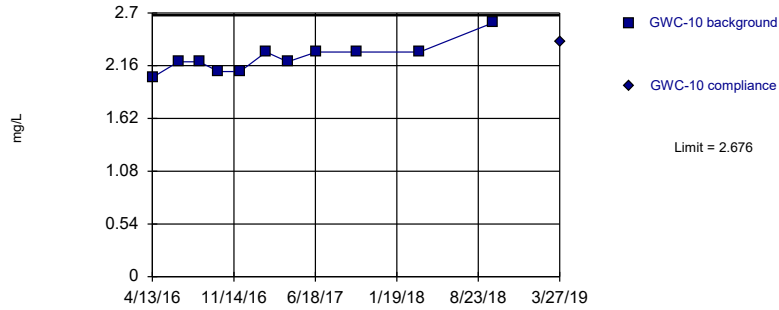
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.911, Std. Dev.=0.25, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9271, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

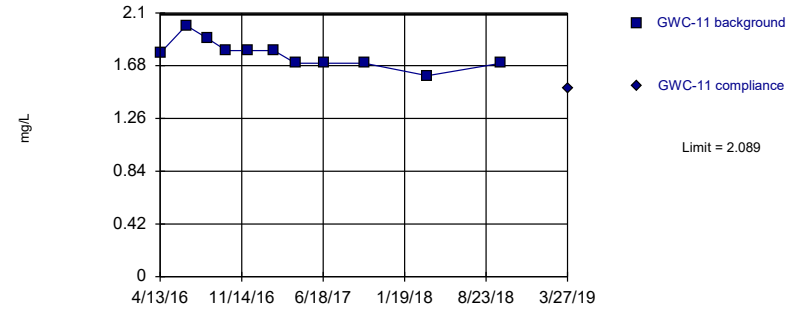
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.24, Std. Dev.=0.151, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.874, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

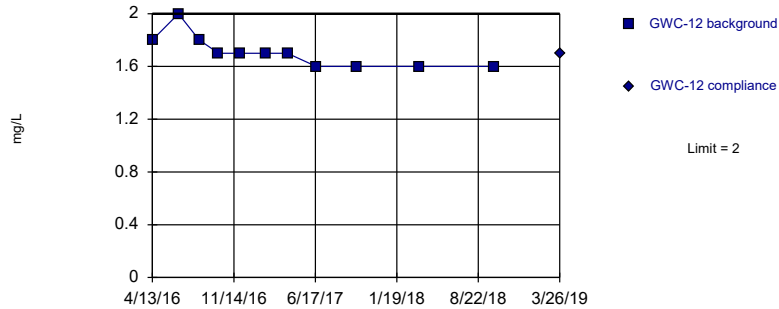
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.771, Std. Dev.=0.11, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9223, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

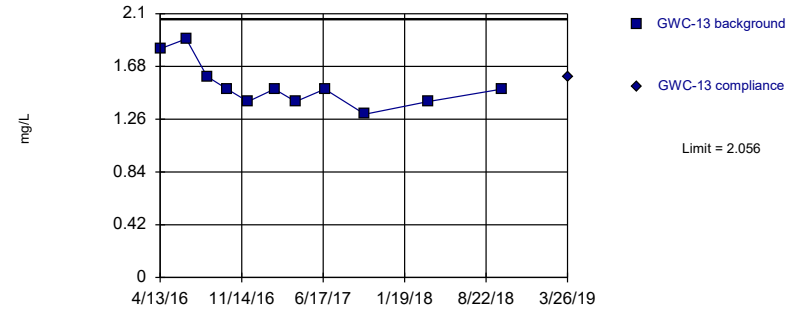
Within Limit Prediction Limit  
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

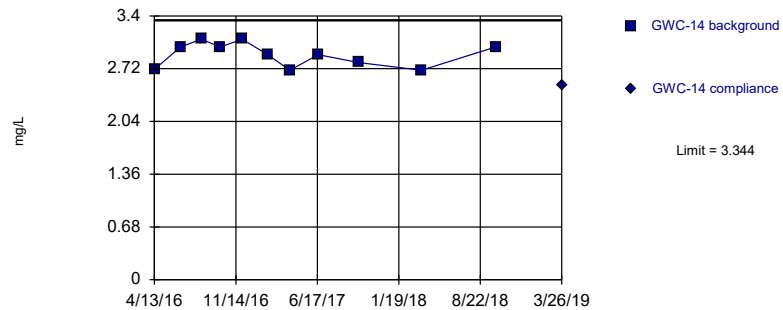
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.529, Std. Dev.=0.1825, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8586, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

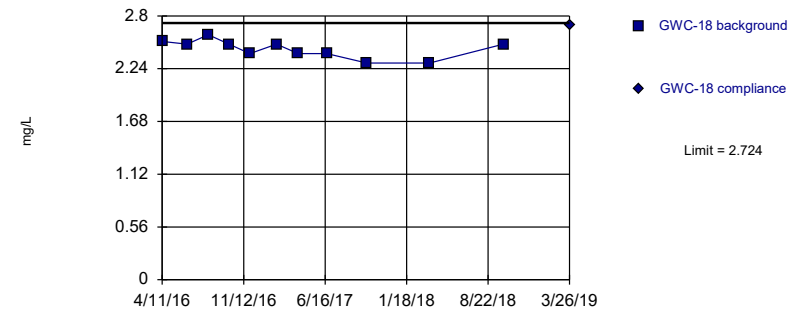
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.901, Std. Dev.=0.1537, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8874, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

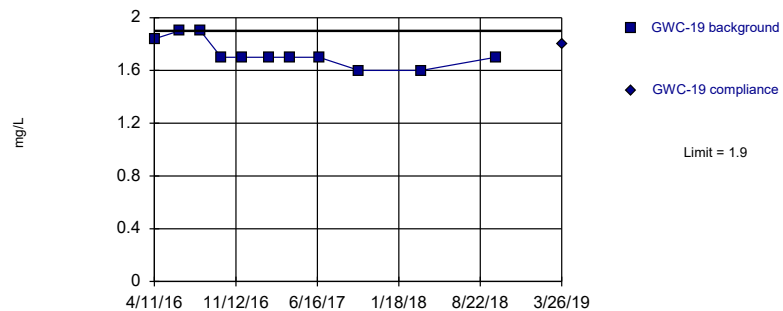
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.448, Std. Dev.=0.09558, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9086, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

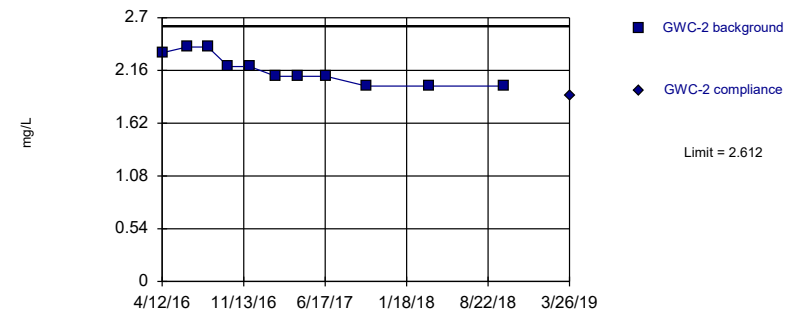
Within Limit Prediction Limit  
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

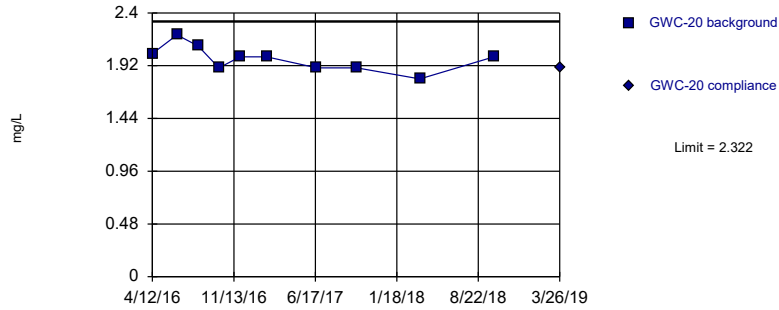


Background Data Summary: Mean=2.167, Std. Dev.=0.1542, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8694, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



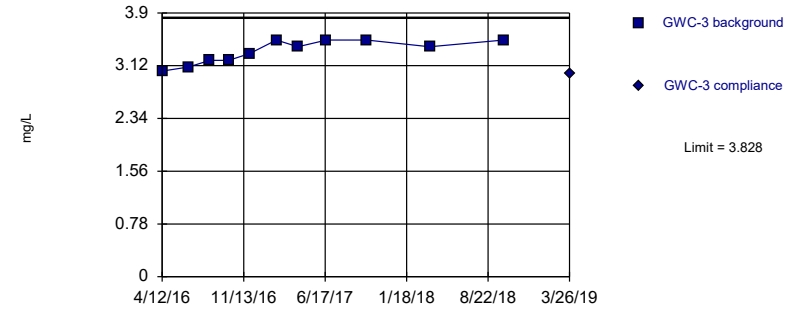
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.983, Std. Dev.=0.1145, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9536, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

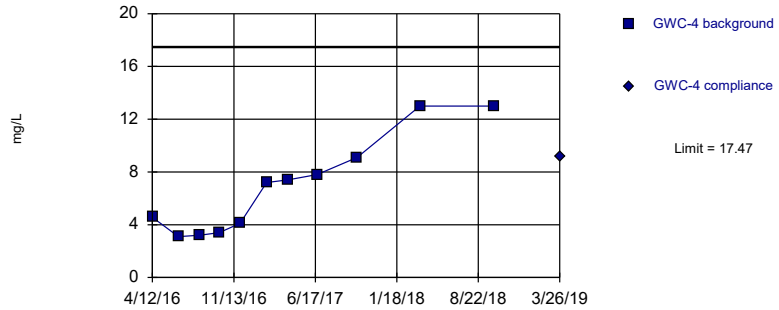
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.331, Std. Dev.=0.1724, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8682, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

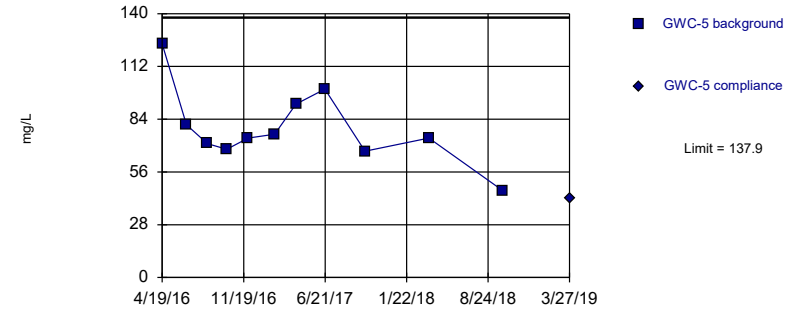
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.897, Std. Dev.=3.661, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8712, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

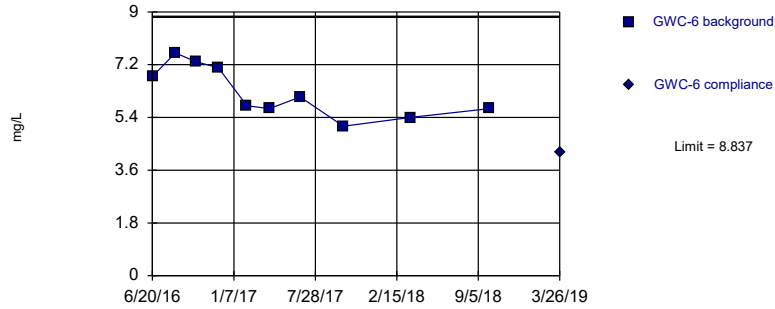
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=79.36, Std. Dev.=20.28, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9228, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

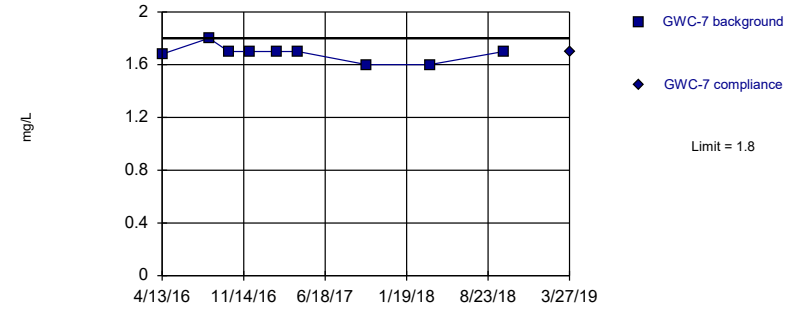
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.26, Std. Dev.=0.8708, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9206, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

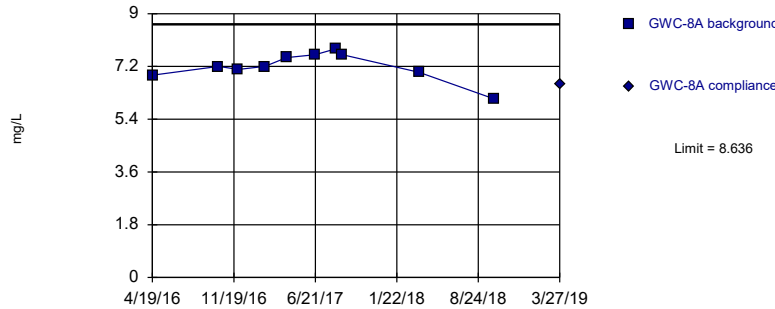
Within Limit Prediction Limit  
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 9 background values. Report alpha = 0.1. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

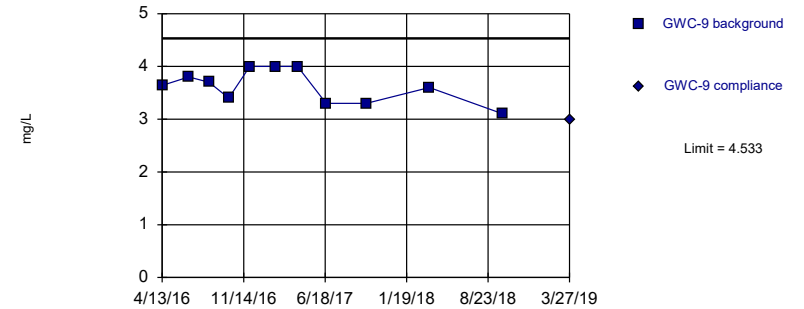
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.2, Std. Dev.=0.4853, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9028, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

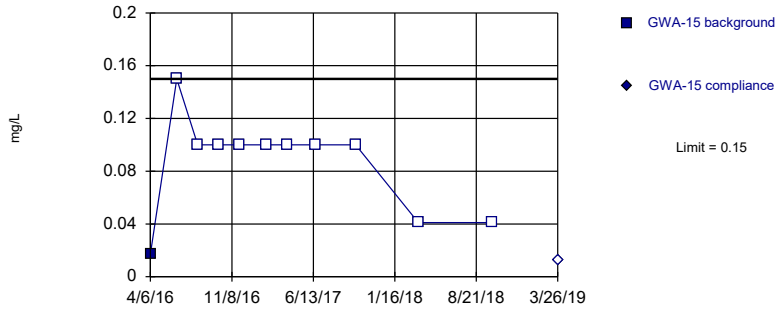


Background Data Summary: Mean=3.622, Std. Dev.=0.3157, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.922, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

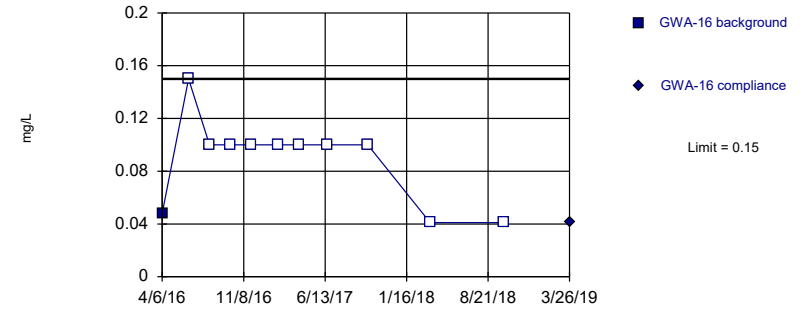


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

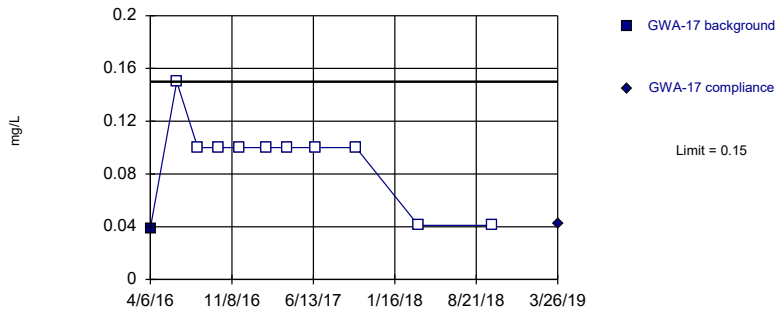


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

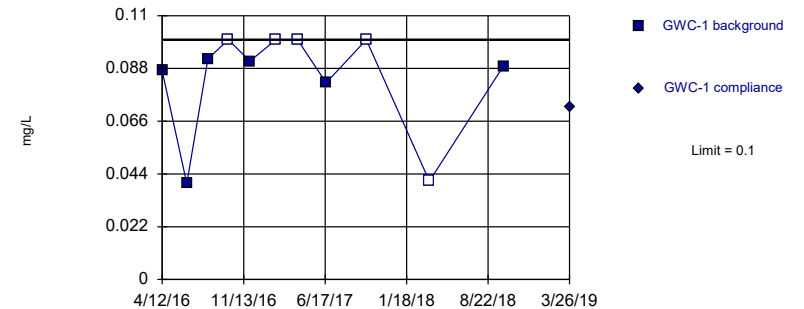


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

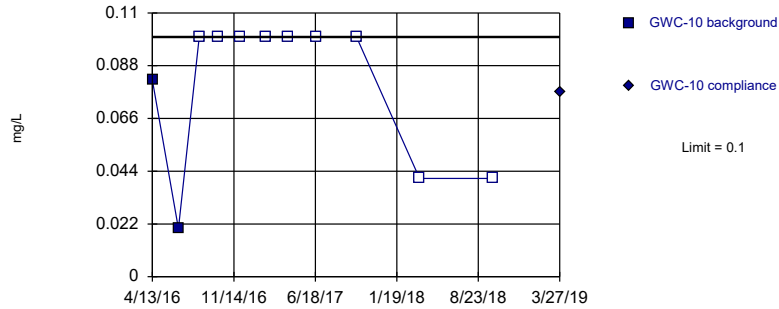


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 11 background values. 45.45% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

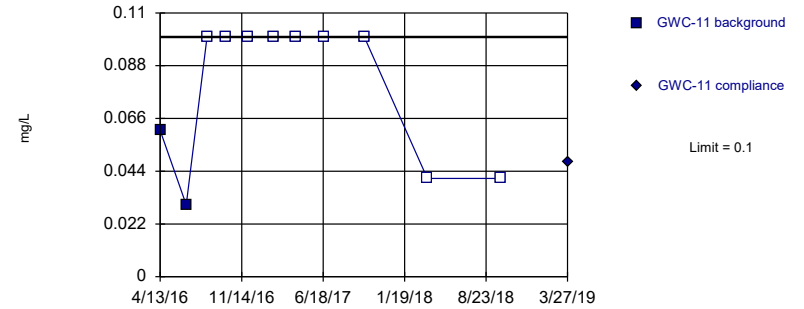


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

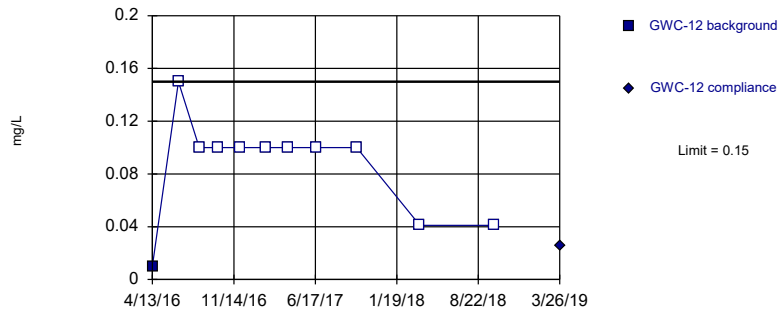


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

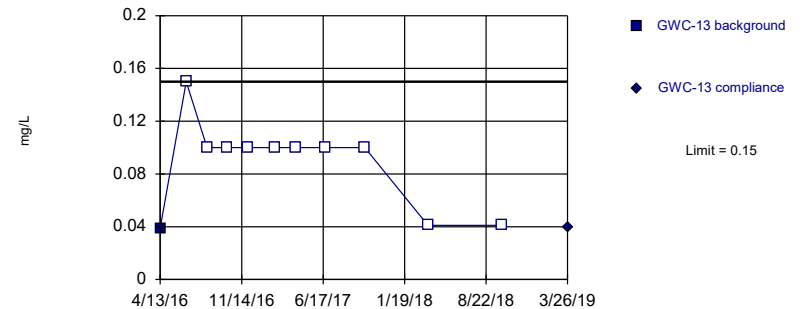


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

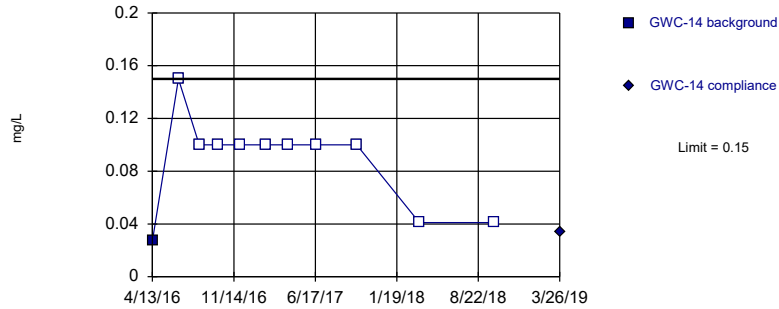


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

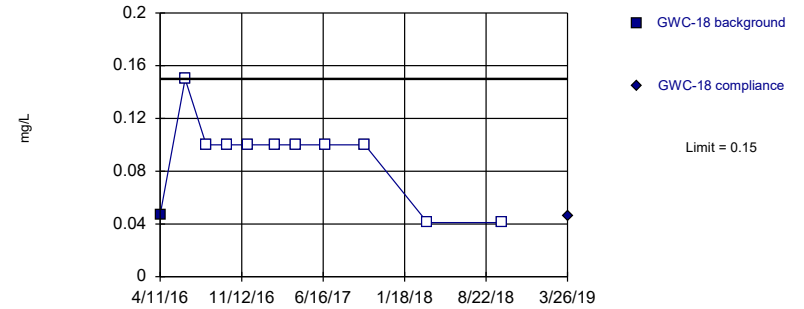


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

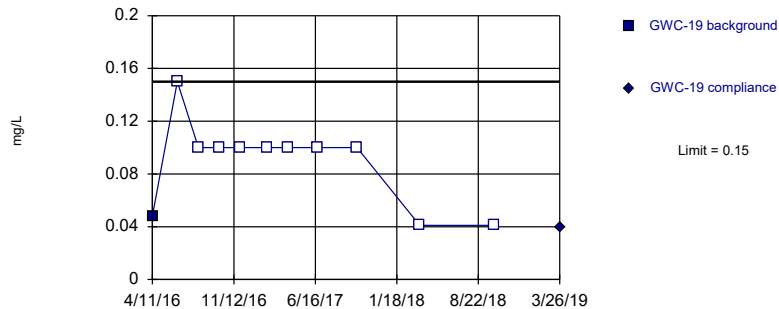


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

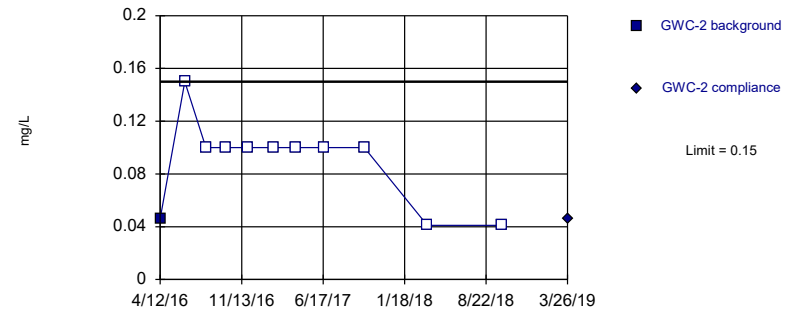


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

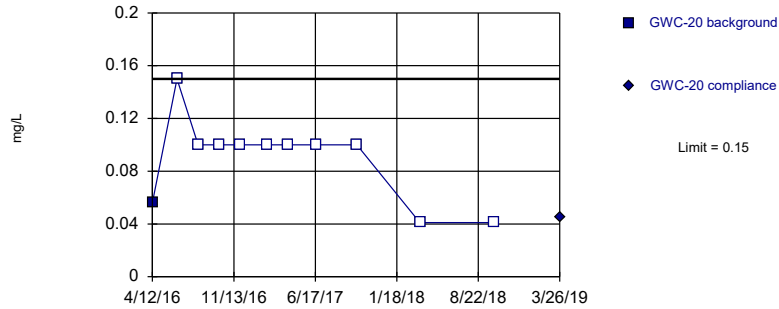
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

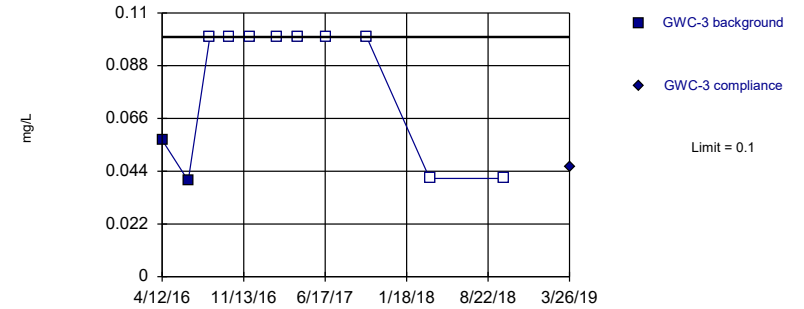
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

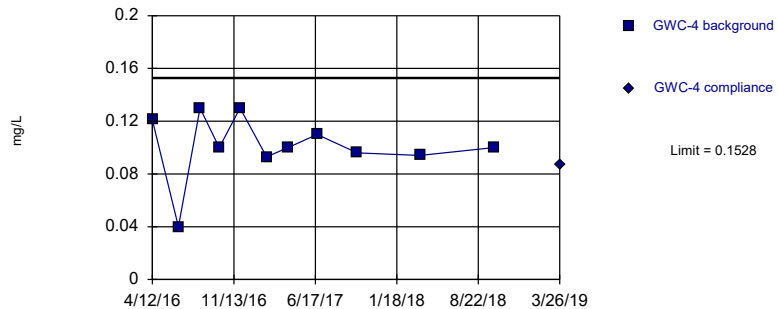
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

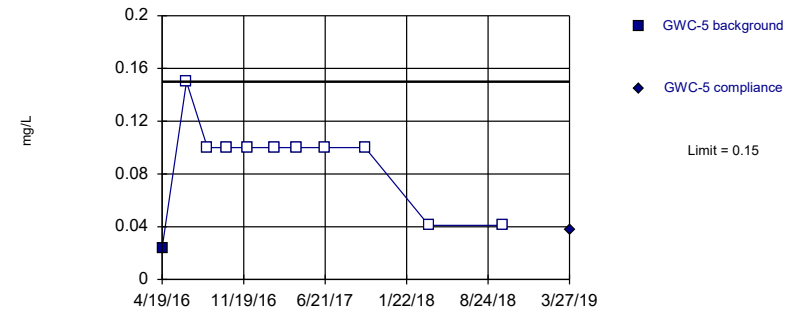
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.0108, Std. Dev.=0.004341, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9009, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

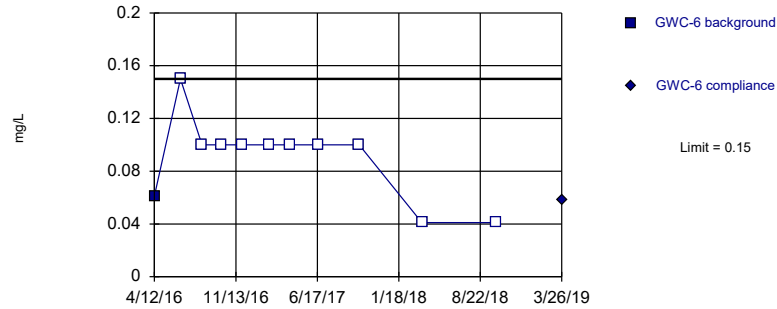
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

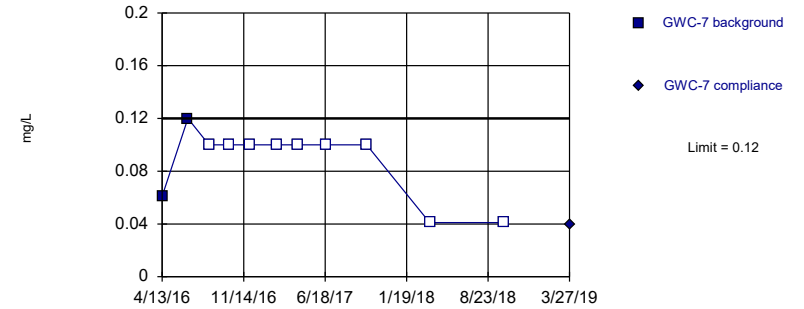
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

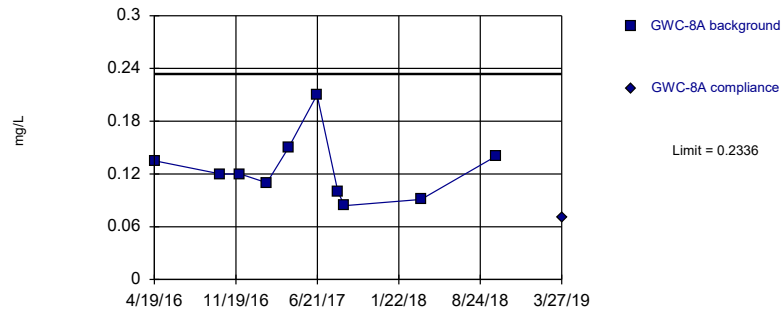
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

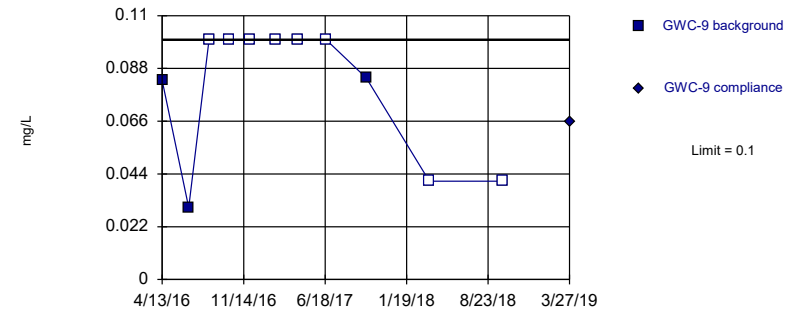
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.126, Std. Dev.=0.03637, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8975, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Non-parametric



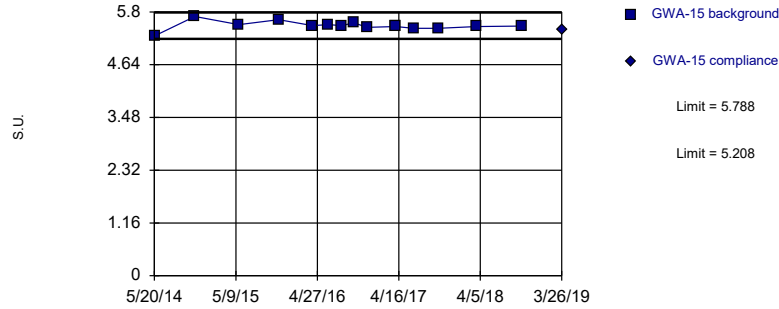
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limits

Prediction Limit  
Intrawell Parametric

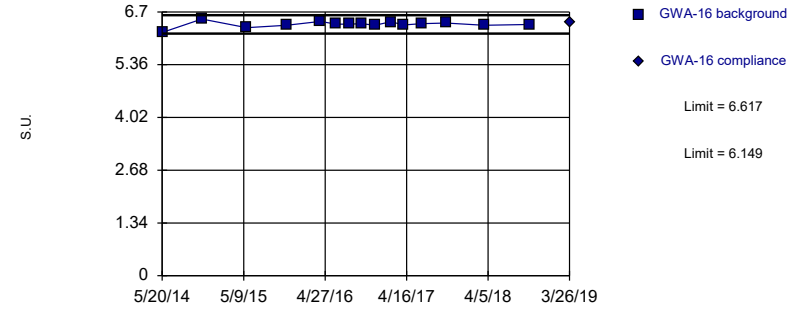


Background Data Summary: Mean=5.498, Std. Dev.=0.0942, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8953, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

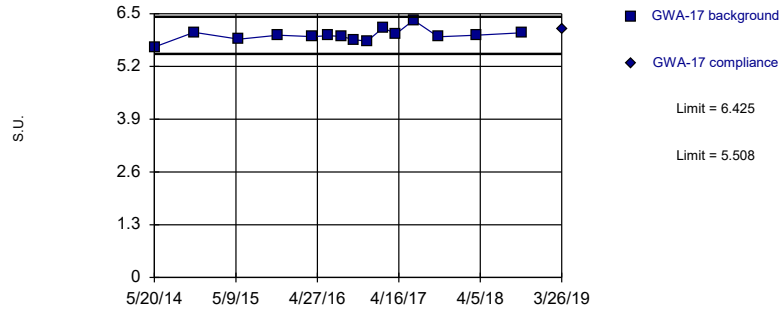


Background Data Summary: Mean=6.383, Std. Dev.=0.07611, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9003, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

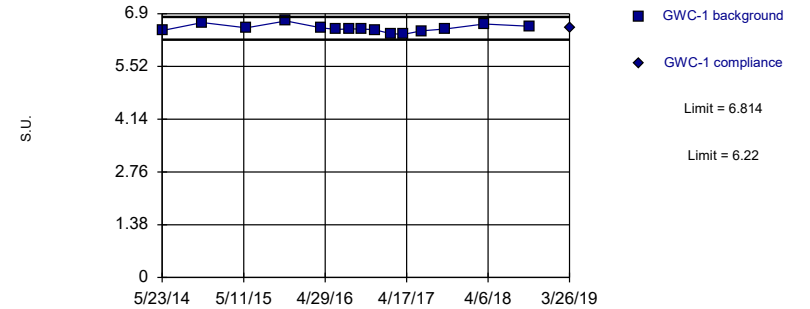


Background Data Summary: Mean=5.966, Std. Dev.=0.149, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9297, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

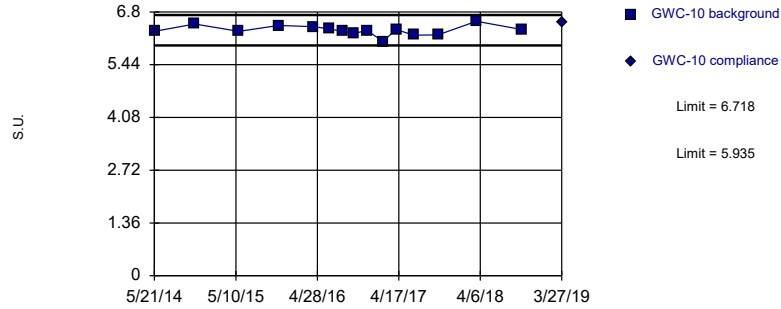


Background Data Summary: Mean=6.517, Std. Dev.=0.09662, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9479, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

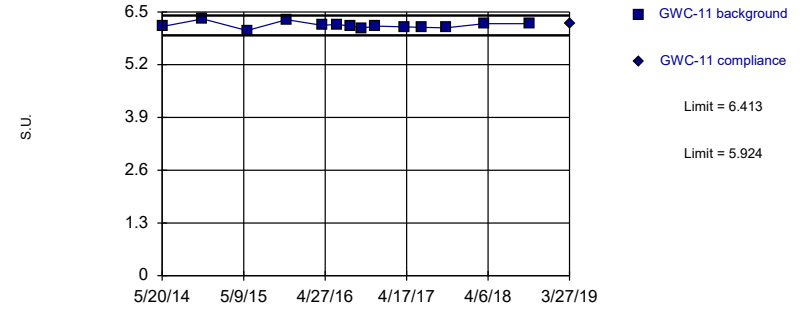


Background Data Summary: Mean=6.327, Std. Dev.=0.1274, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9732, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

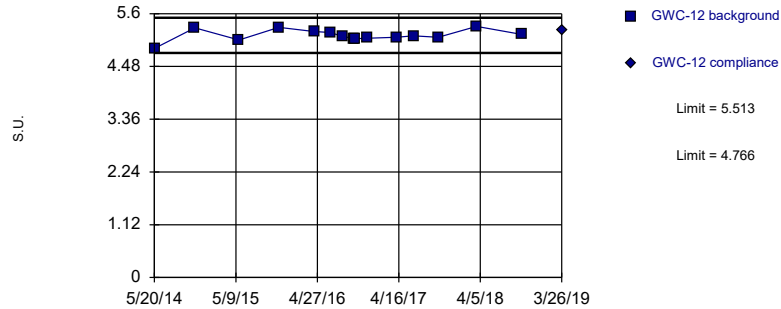


Background Data Summary: Mean=6.169, Std. Dev.=0.07843, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9278, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

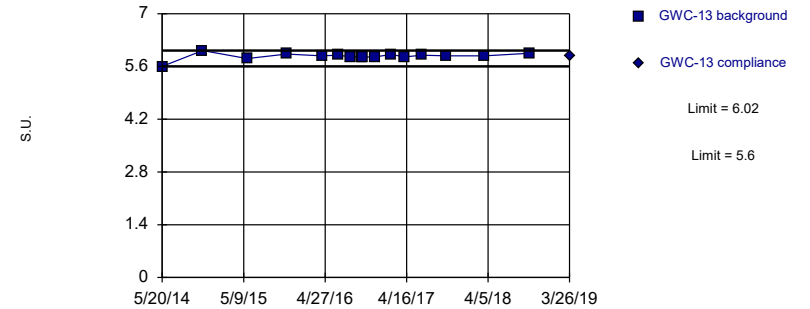


Background Data Summary: Mean=5.139, Std. Dev.=0.1214, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9362, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

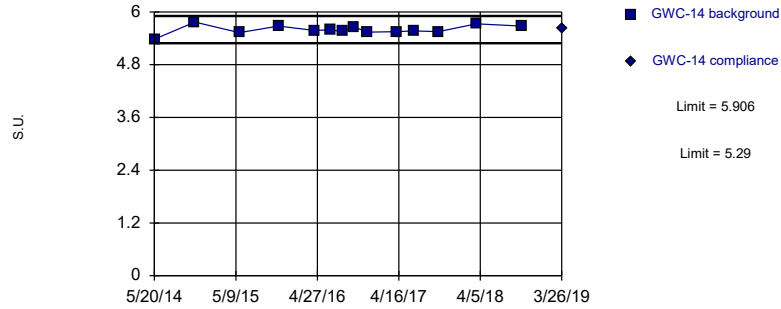


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 16 background values. Report alpha = 0.1176. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

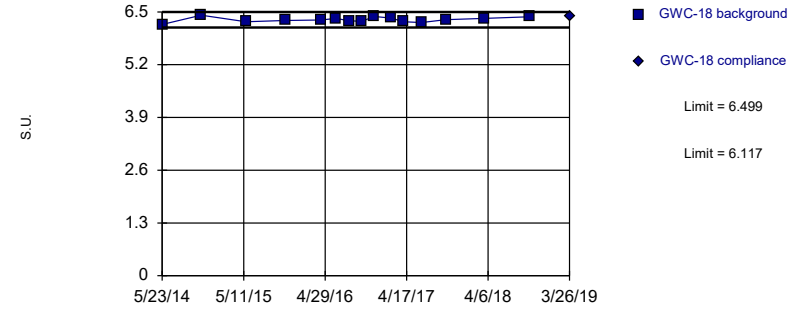


Background Data Summary: Mean=5.598, Std. Dev.=0.09885, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9374, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

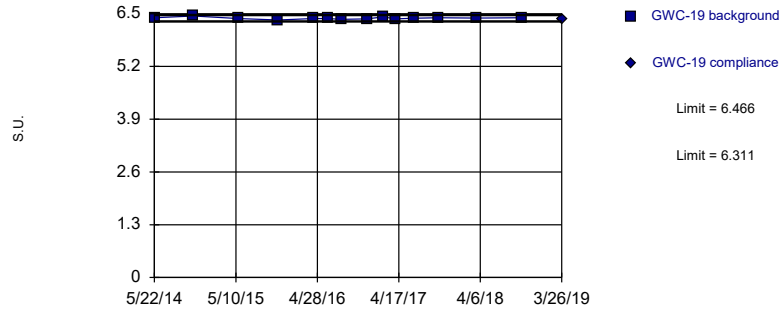


Background Data Summary: Mean=6.308, Std. Dev.=0.06213, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9832, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

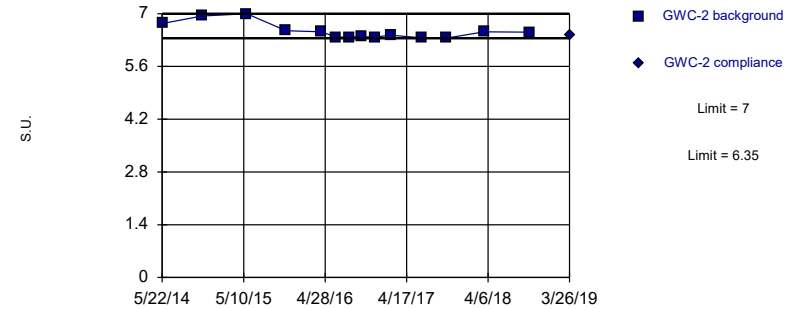


Background Data Summary: Mean=6.388, Std. Dev.=0.02489, n=14. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9655, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

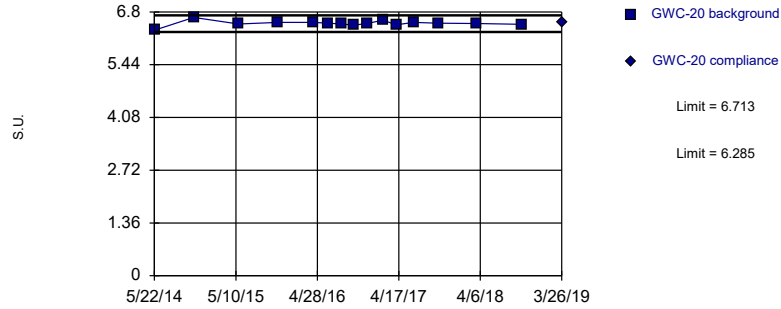


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 14 background values. Report alpha = 0.1333. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

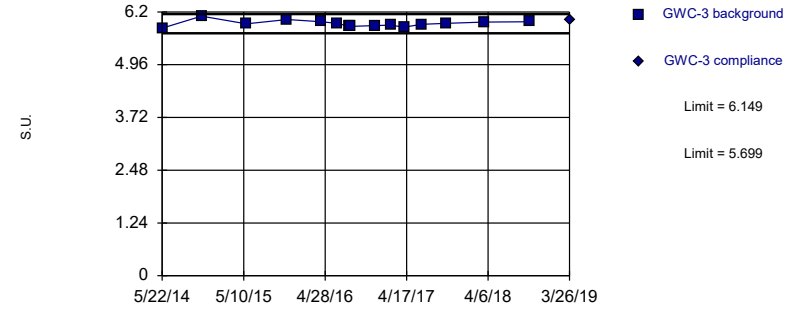


Background Data Summary (based on cube transformation): Mean=275.4, Std. Dev.=8.839, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8819, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

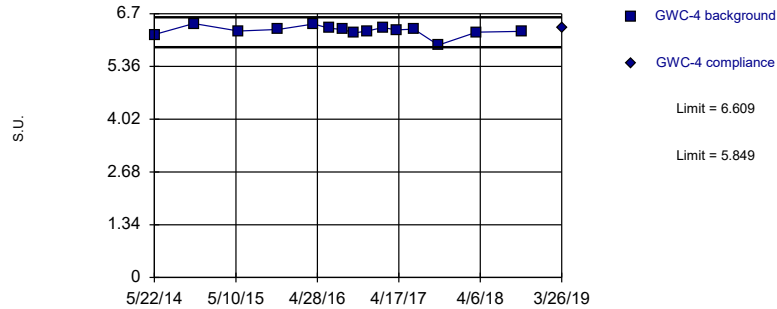


Background Data Summary: Mean=5.924, Std. Dev.=0.07327, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9486, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

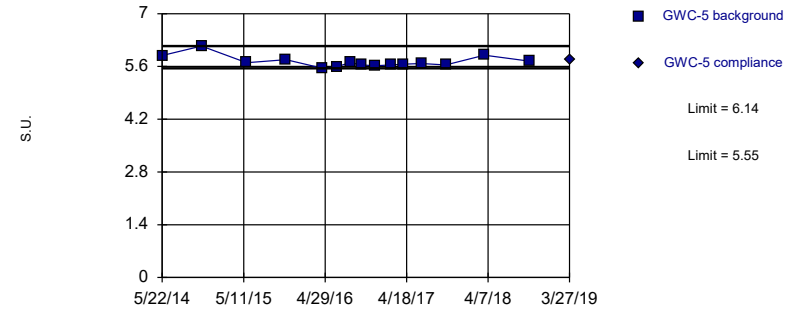


Background Data Summary (based on x^5 transformation): Mean=9727, Std. Dev.=936.7, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8839, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

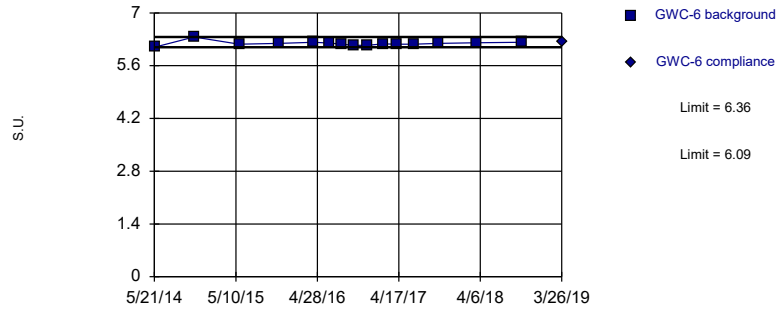


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 15 background values. Report alpha = 0.125. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

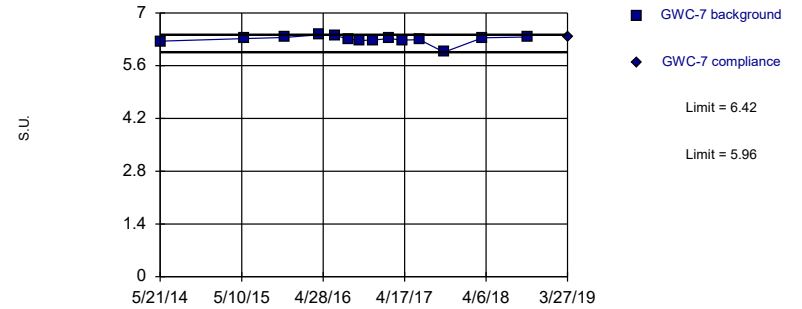


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 15 background values. Report alpha = 0.125. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

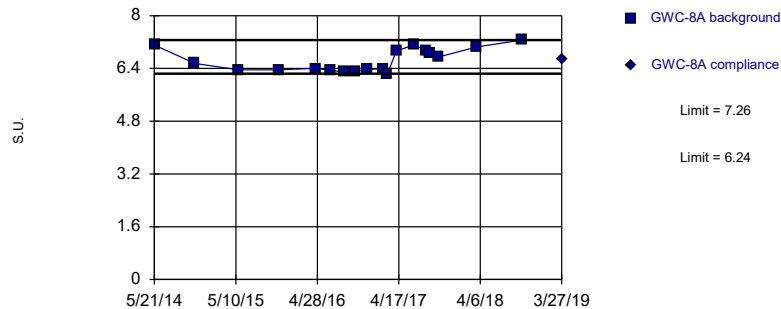


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 14 background values. Report alpha = 0.1333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

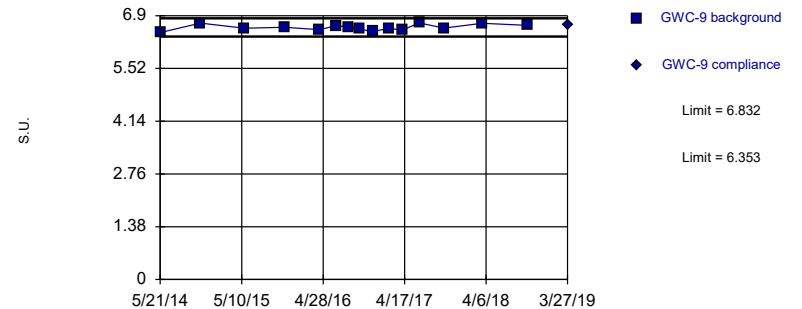


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 18 background values. Report alpha = 0.1053. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

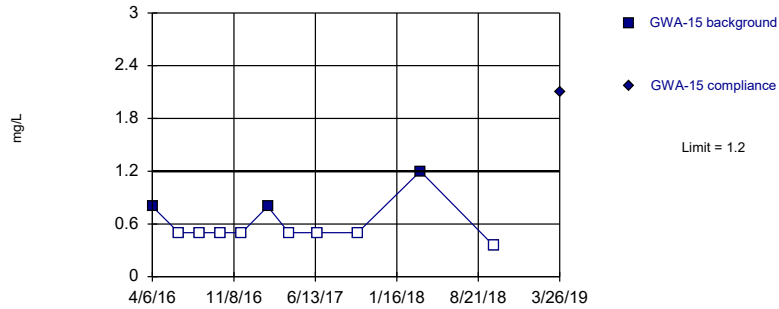


Background Data Summary: Mean=6.592, Std. Dev.=0.07783, n=15. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9556, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

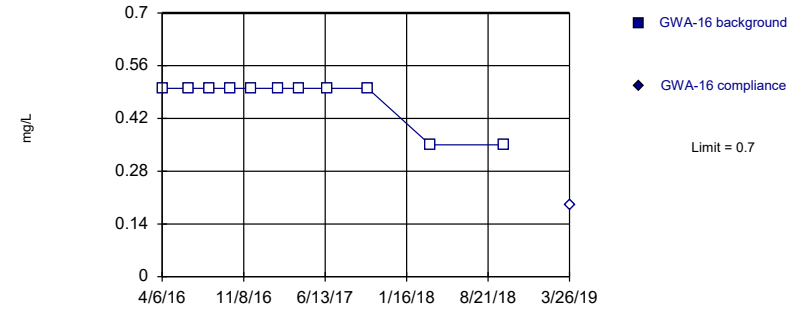


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

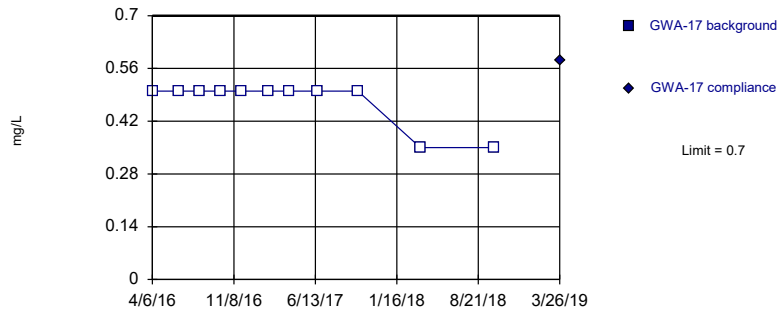


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

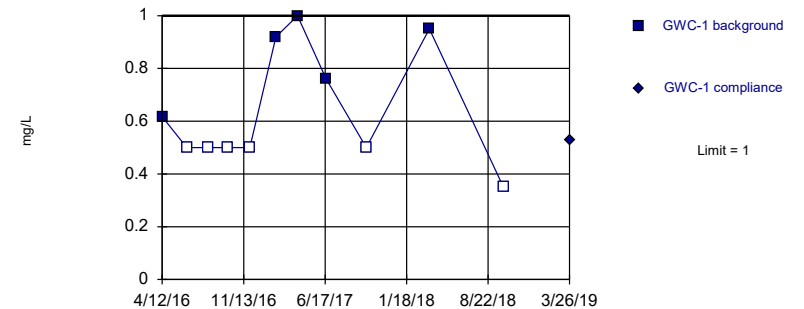


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

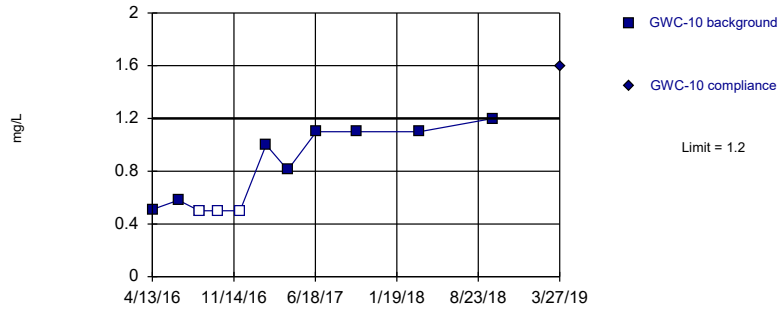


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

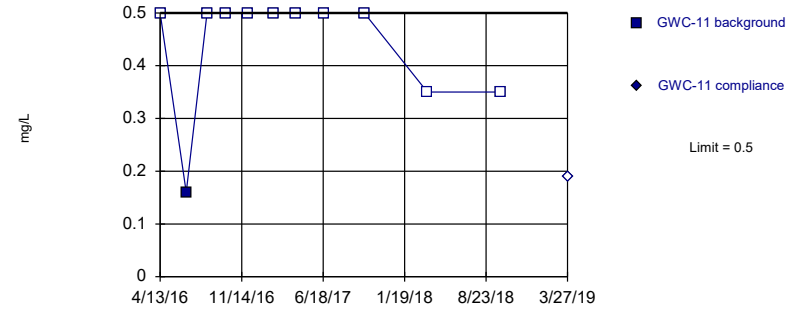


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 11 background values. 27.27% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

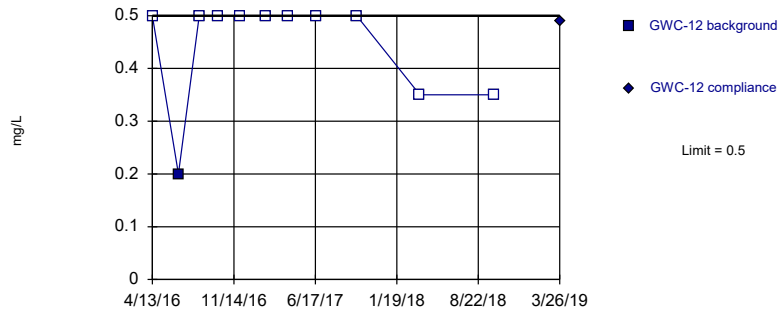


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

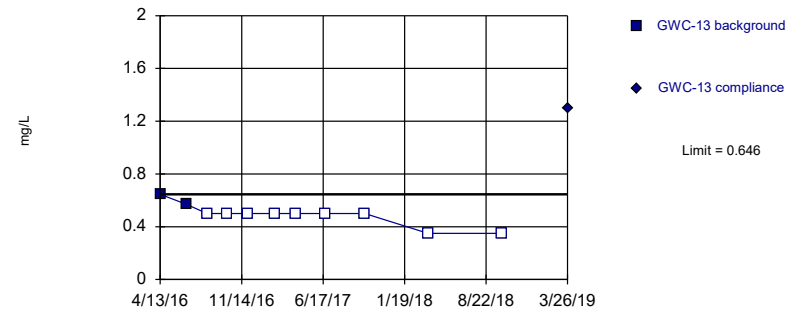


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric



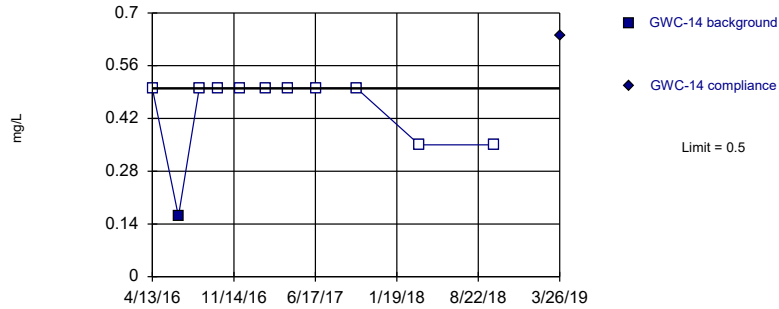
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

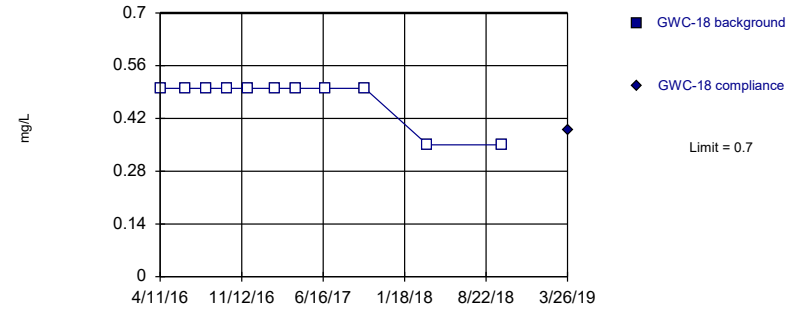


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

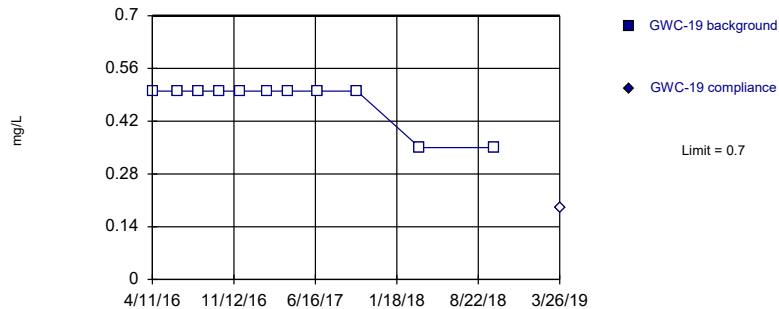


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

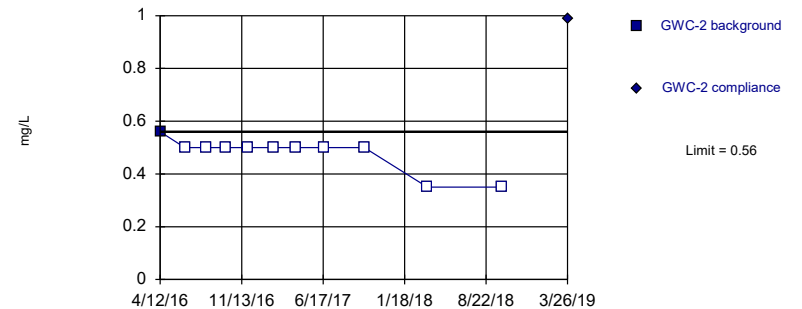


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

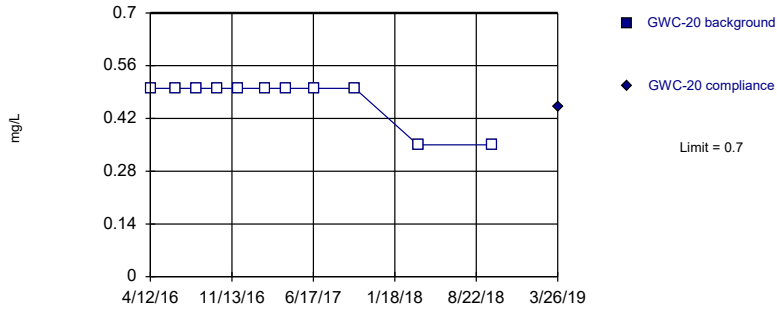
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

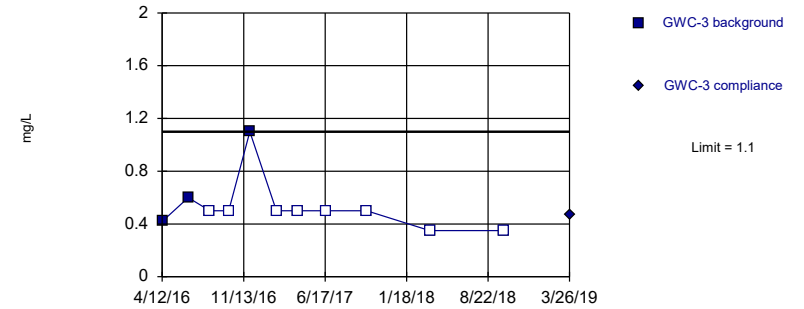
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

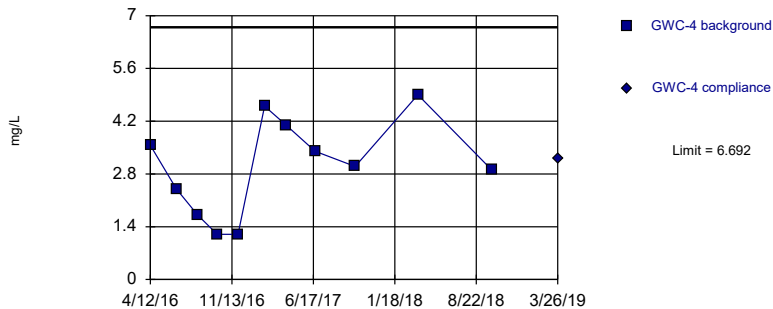
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

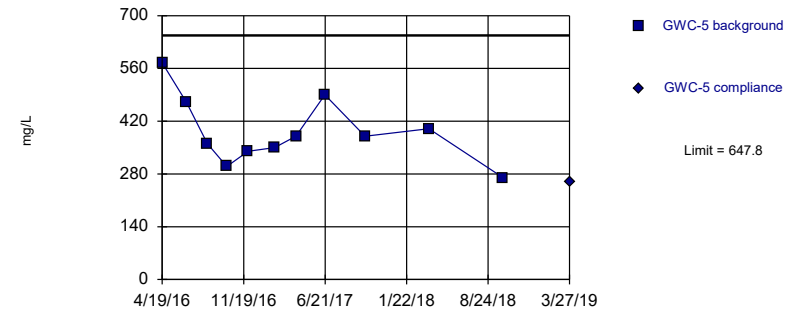
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.996, Std. Dev.=1.28, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9481, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

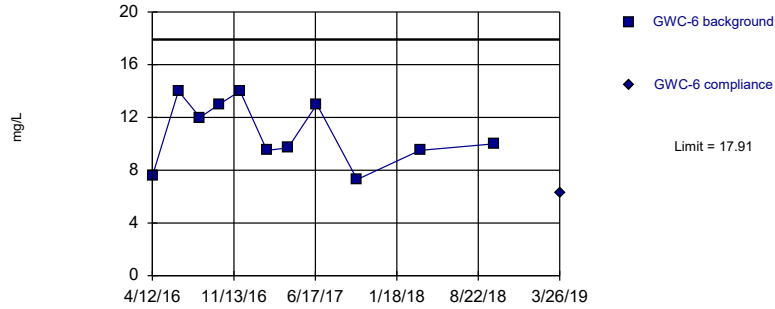
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=392.3, Std. Dev.=88.53, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9422, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

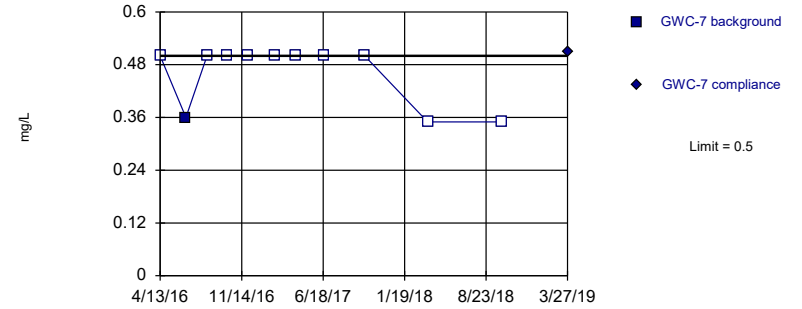


Background Data Summary: Mean=10.87, Std. Dev.=2.441, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9045, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Hollow symbols indicate censored values.

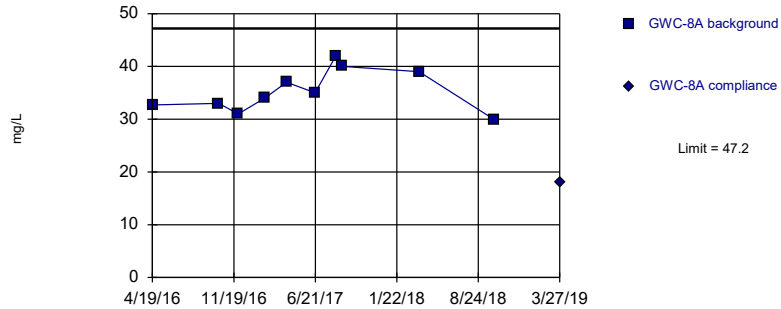
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

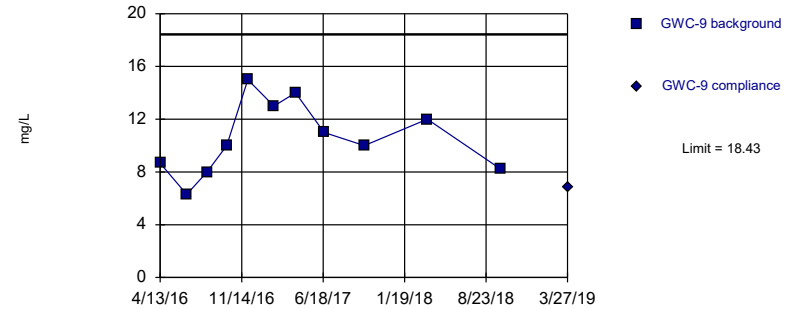
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=35.37, Std. Dev.=3.999, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9555, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

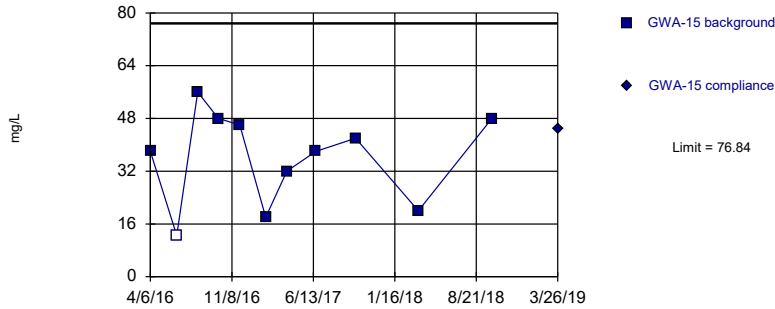
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.56, Std. Dev.=2.725, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9712, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

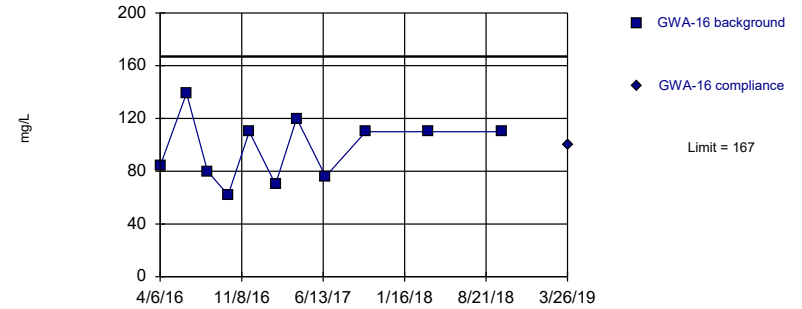
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=36.23, Std. Dev.=14.07, n=11, 9.091% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9303, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

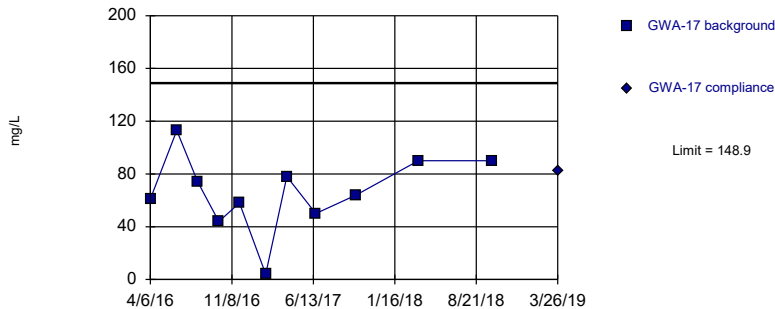
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=97.36, Std. Dev.=24.13, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9276, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

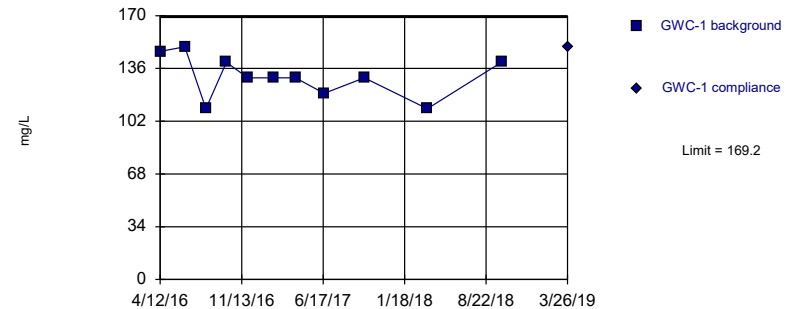
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=66, Std. Dev.=28.72, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9628, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

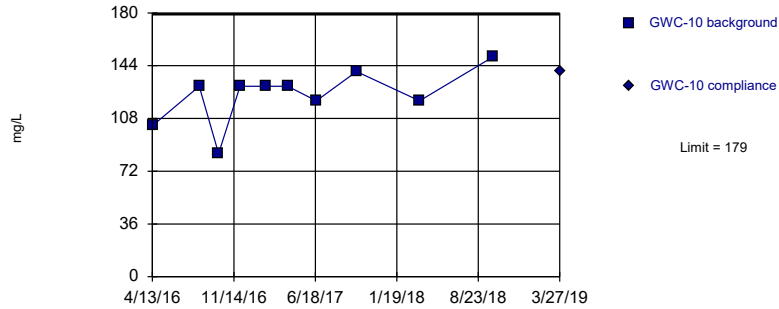
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=130.6, Std. Dev.=13.36, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9245, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

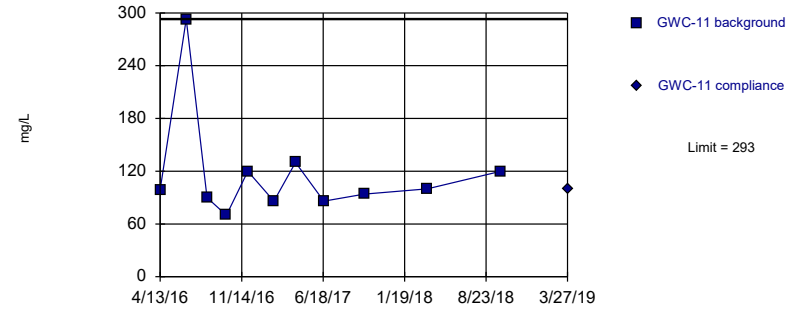
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=123.7, Std. Dev.=18.7, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9065, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

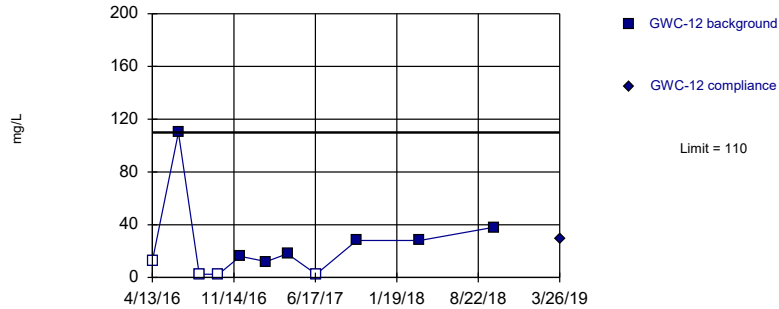
Within Limit Prediction Limit  
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

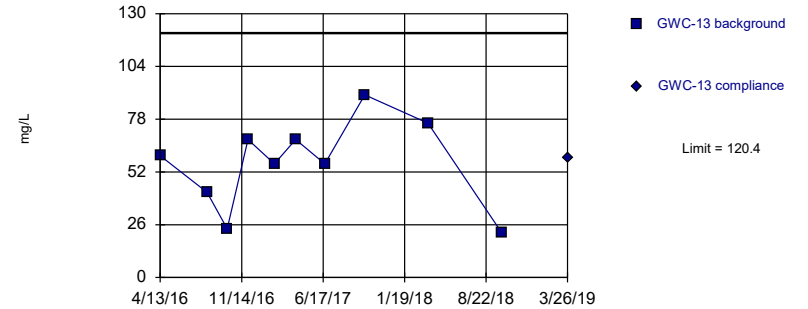
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 11 background values. 36.36% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

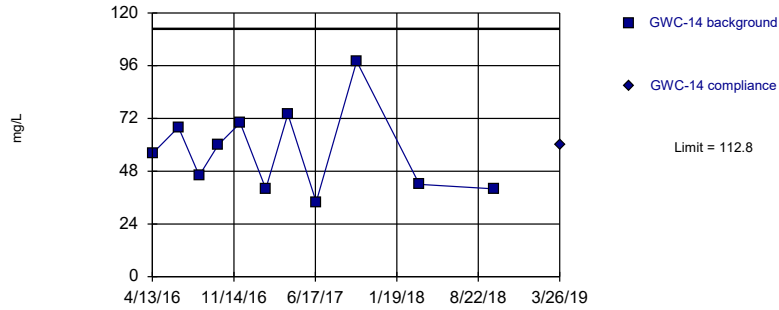
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=56.2, Std. Dev.=21.69, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.947, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

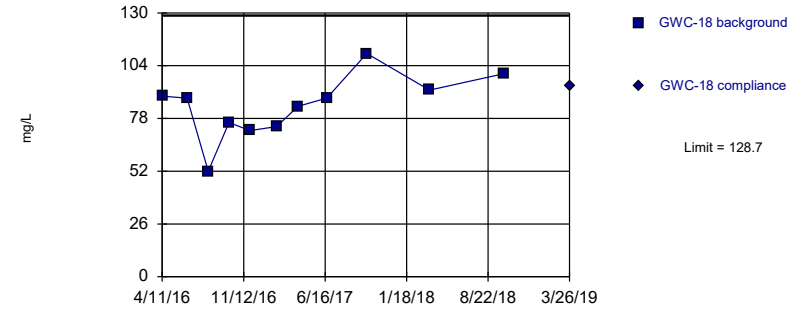
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=57.09, Std. Dev.=19.29, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9219, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

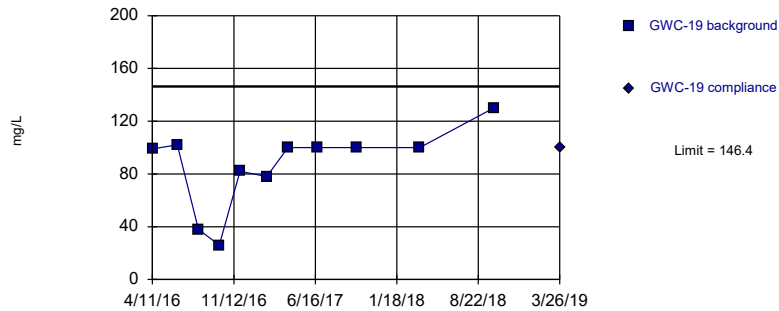
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=84.09, Std. Dev.=15.44, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9649, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

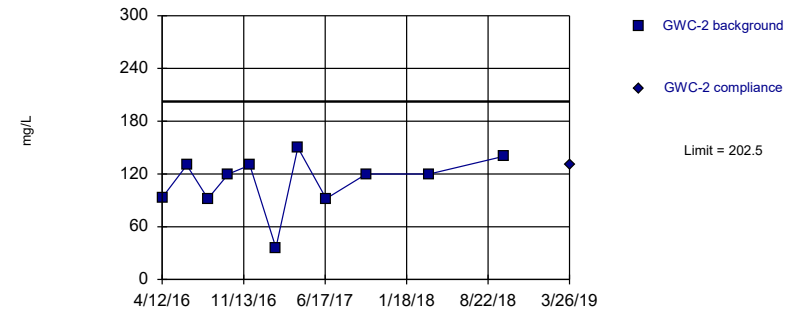
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8367, Std. Dev.=4524, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8805, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

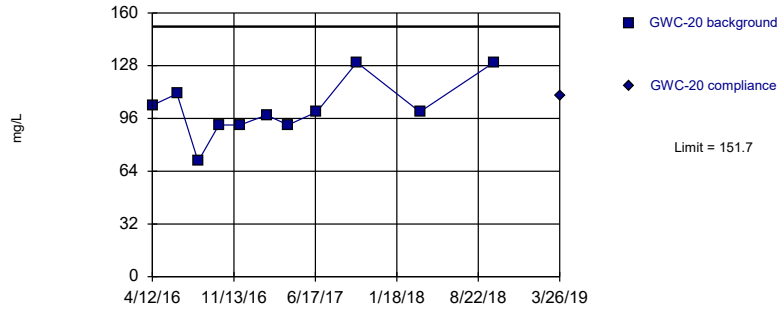
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=111.2, Std. Dev.=31.62, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.877, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

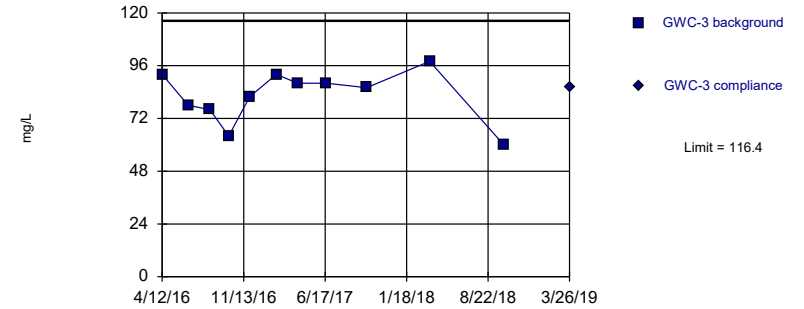
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=101.7, Std. Dev.=17.32, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9135, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

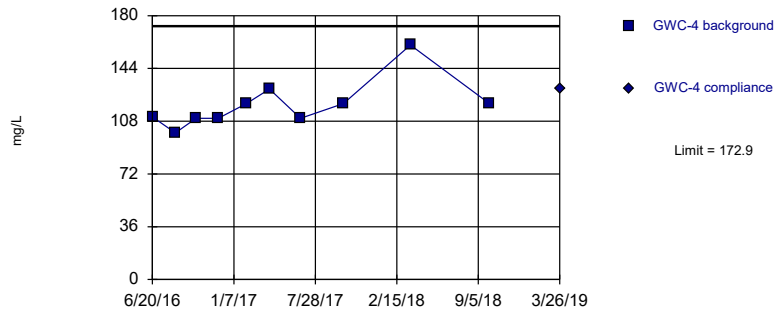
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=82.18, Std. Dev.=11.85, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9247, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

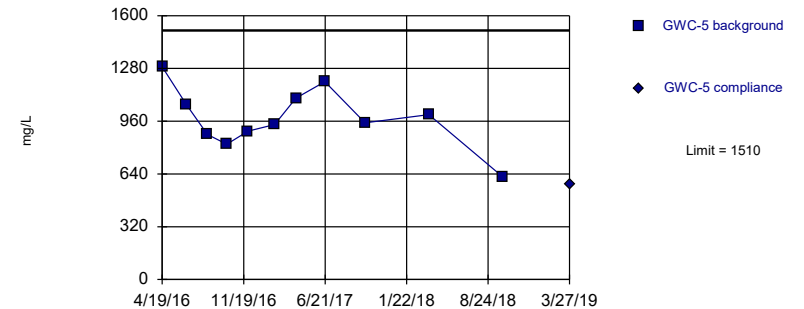
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.772, Std. Dev.=0.1286, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8568, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

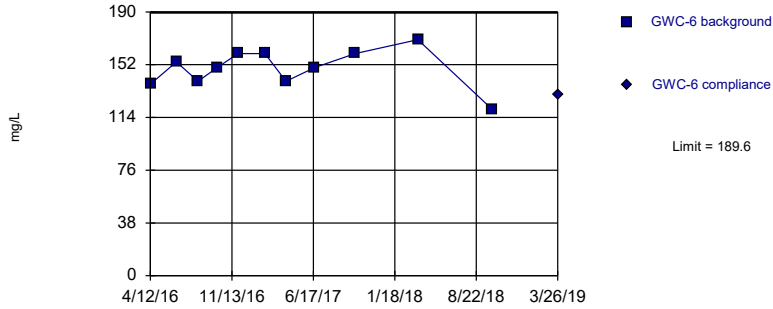
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=978.2, Std. Dev.=184.3, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9833, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

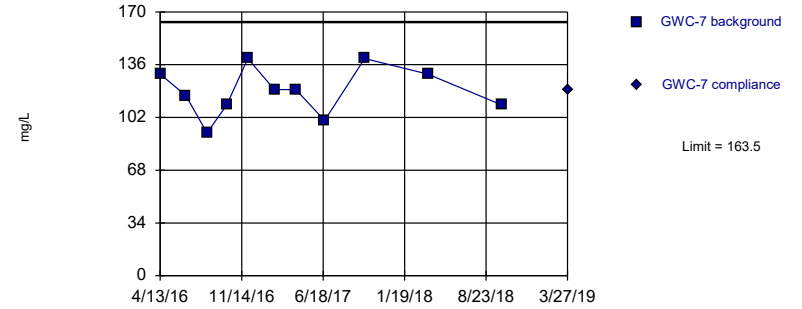
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=149.3, Std. Dev.=13.98, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9442, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

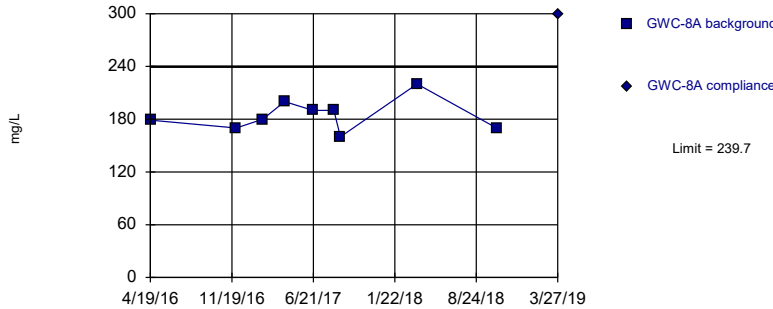
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=118.9, Std. Dev.=15.45, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9573, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

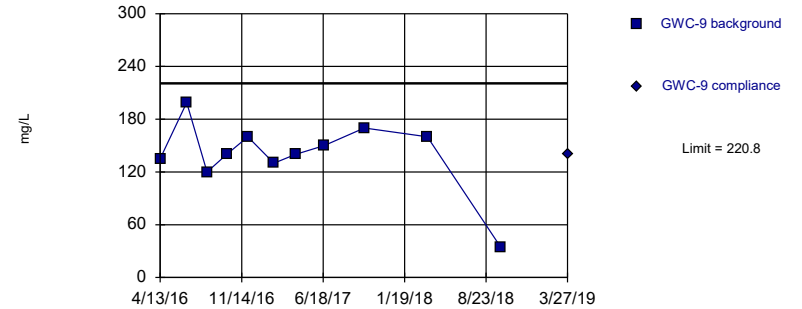
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=184.3, Std. Dev.=18.14, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9519, critical = 0.829. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=21098, Std. Dev.=9585, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9513, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

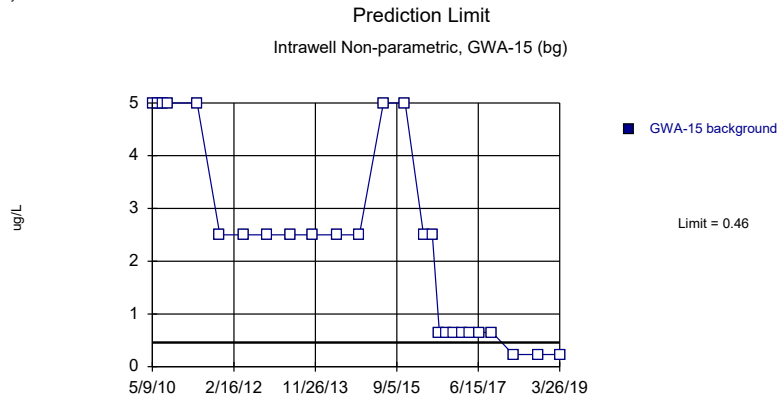
Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



# Prediction Limit

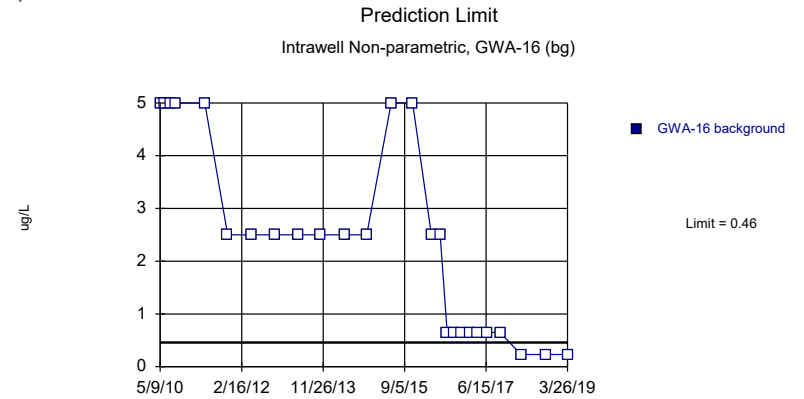
Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic, Total (ug/L)	GWA-15	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWA-16	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWA-17	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-1	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-10	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-11	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-12	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-13	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-14	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-18	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-19	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-2	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-20	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-3	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-4	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-5	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-6	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-7	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-8A	5	n/a	n/a	1 future	n/a	26	73.08	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-9	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Silver (mg/L)	GWA-15	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWA-16	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWA-17	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-1	0.005	n/a	n/a	1 future	n/a	21	95.24	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-10	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-11	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-12	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-13	0.00011	n/a	n/a	1 future	n/a	20	100	n/a	0.04762	NP Intra (NDs)
Silver (mg/L)	GWC-14	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-18	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-19	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-2	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-20	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-3	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-4	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-5	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-6	0.005	n/a	n/a	1 future	n/a	21	95.24	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-7	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-8A	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-9	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)



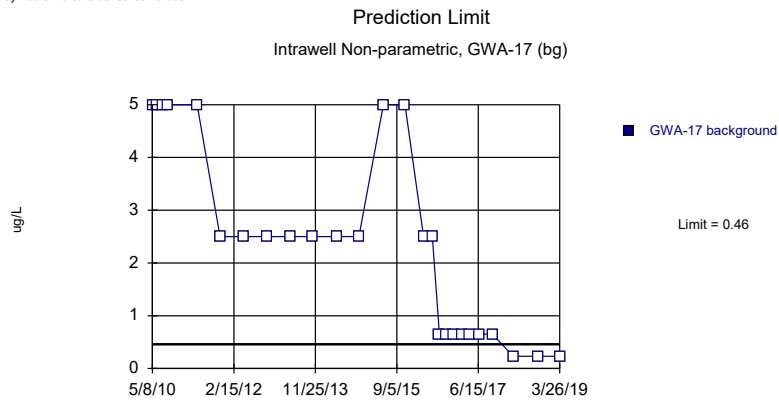
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



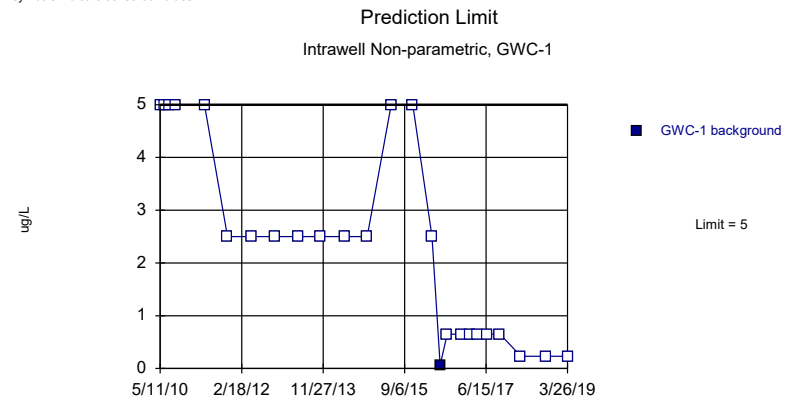
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

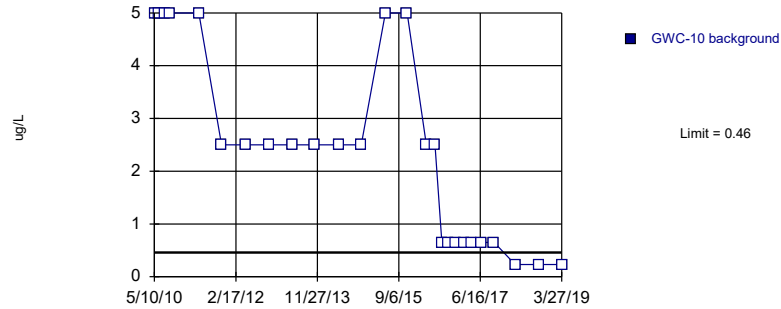
Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

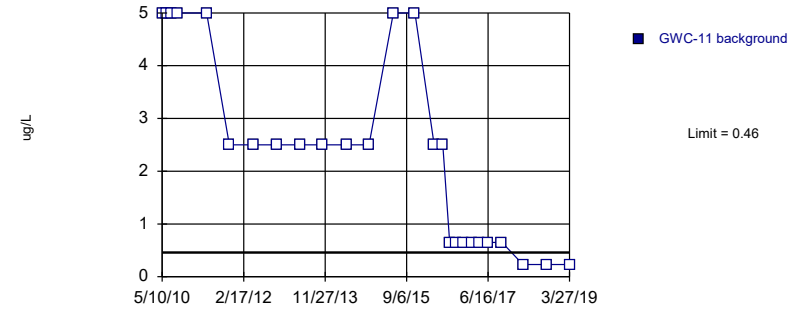
### Prediction Limit Intrawell Non-parametric, GWC-10



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

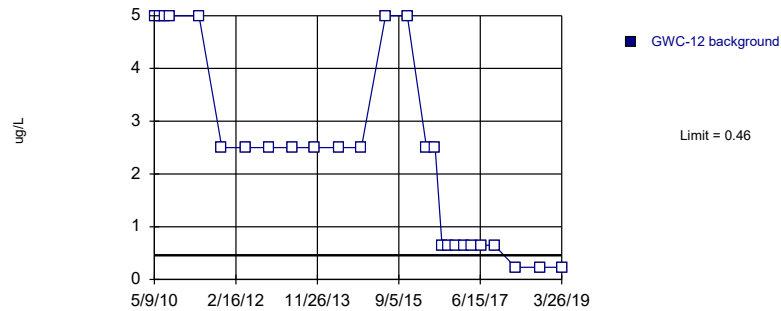
### Prediction Limit Intrawell Non-parametric, GWC-11



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

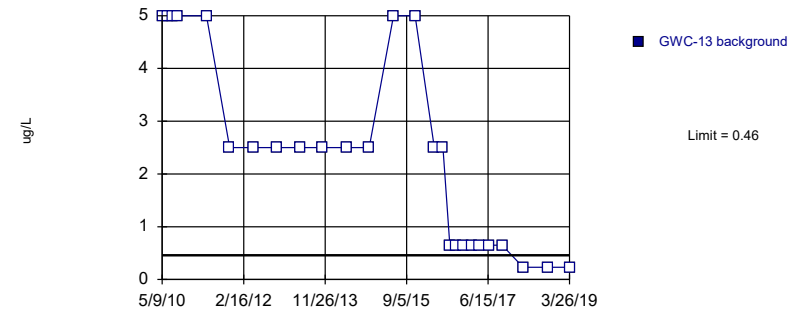
### Prediction Limit Intrawell Non-parametric, GWC-12



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

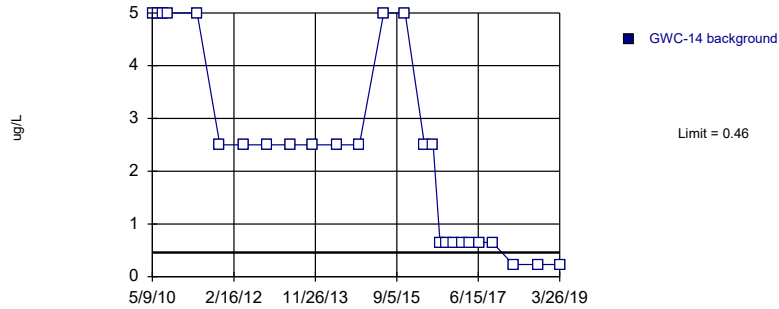
### Prediction Limit Intrawell Non-parametric, GWC-13



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

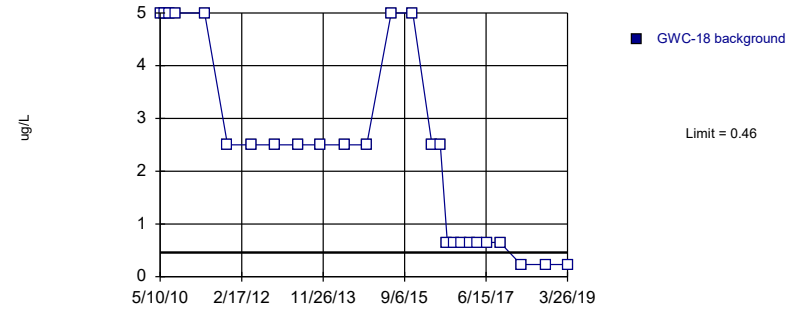
Prediction Limit  
 Intrawell Non-parametric, GWC-14



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

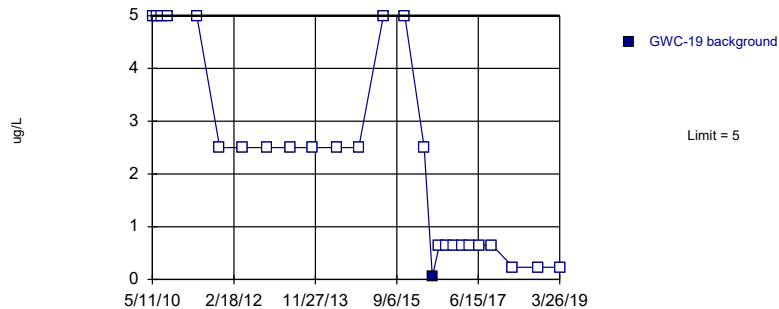
Prediction Limit  
 Intrawell Non-parametric, GWC-18



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

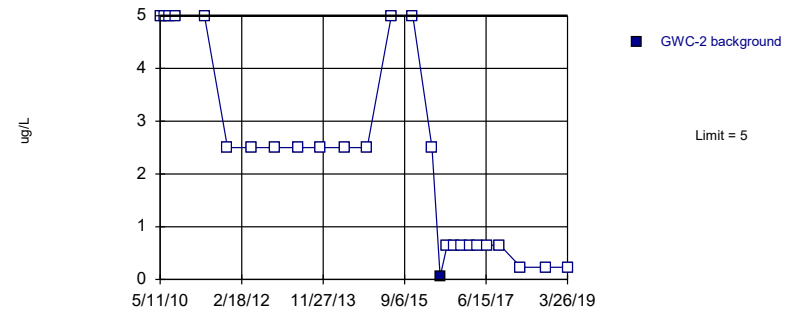
Prediction Limit  
 Intrawell Non-parametric, GWC-19



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. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

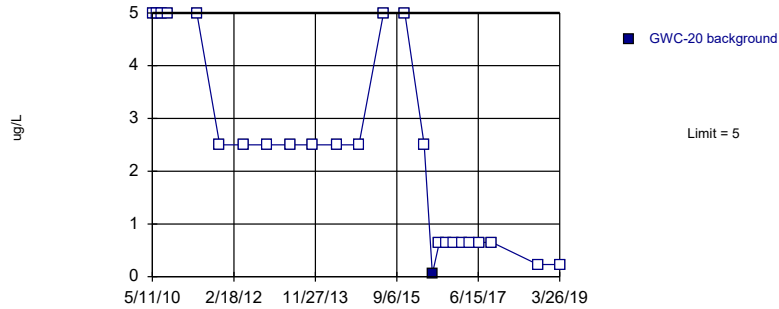
Prediction Limit  
 Intrawell Non-parametric, GWC-2



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. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

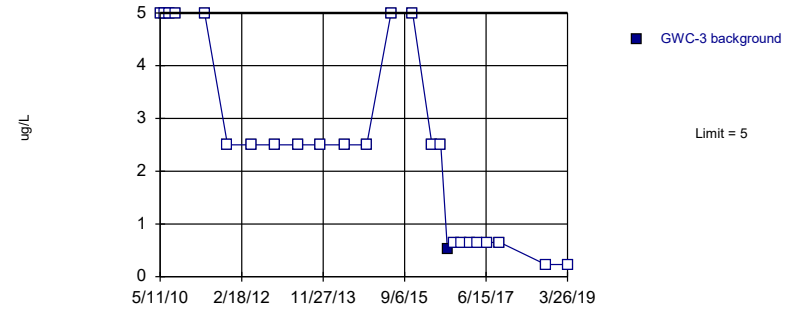
Prediction Limit  
 Intrawell Non-parametric, GWC-20



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

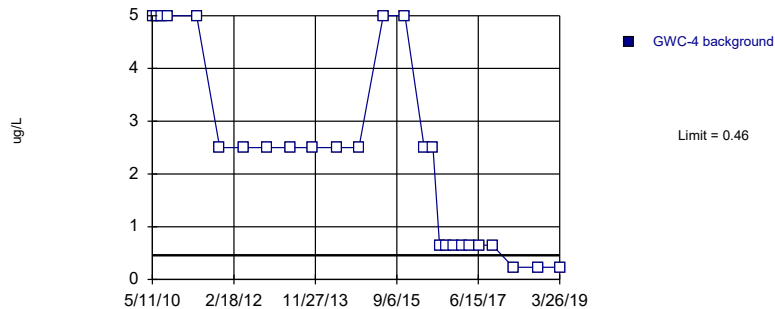
Prediction Limit  
 Intrawell Non-parametric, GWC-3



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

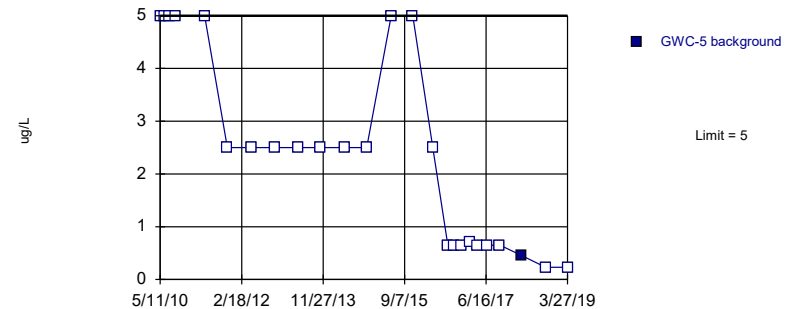
Prediction Limit  
 Intrawell Non-parametric, GWC-4



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

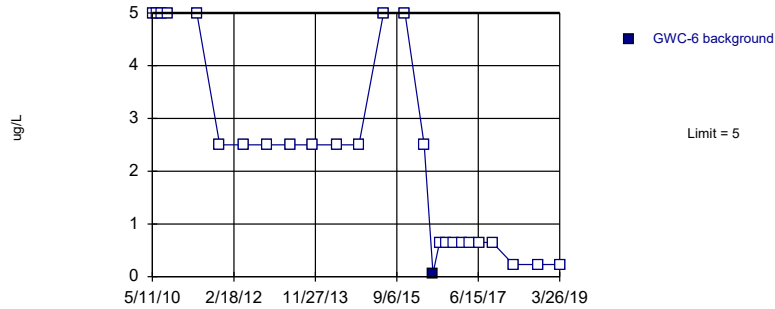
Prediction Limit  
 Intrawell Non-parametric, GWC-5



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

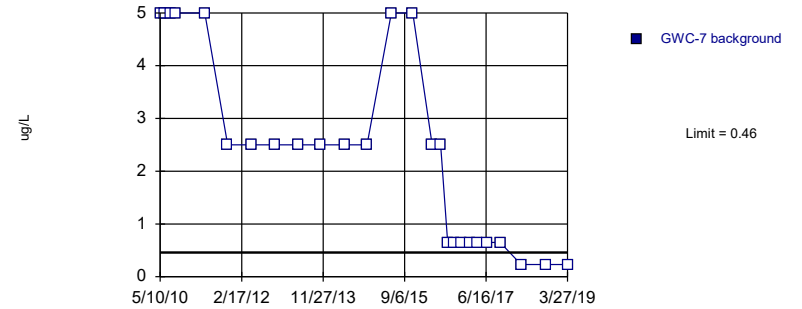
Prediction Limit  
 Intrawell Non-parametric, GWC-6



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. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

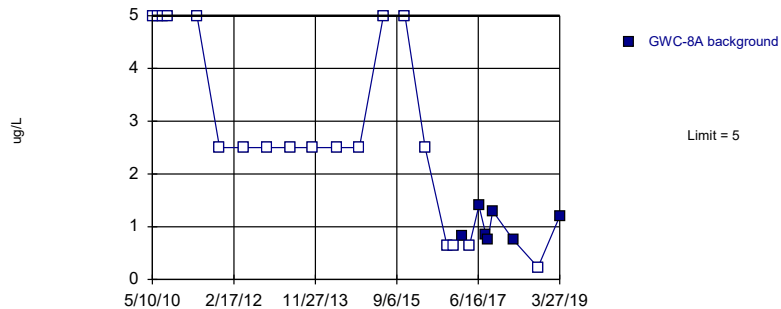
Prediction Limit  
 Intrawell Non-parametric, GWC-7



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

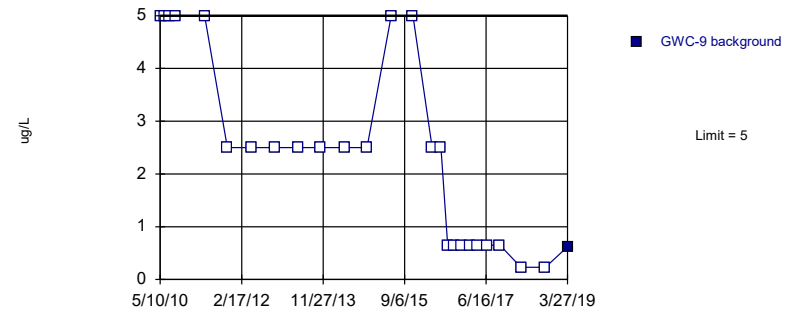
Prediction Limit  
 Intrawell Non-parametric, GWC-8A



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

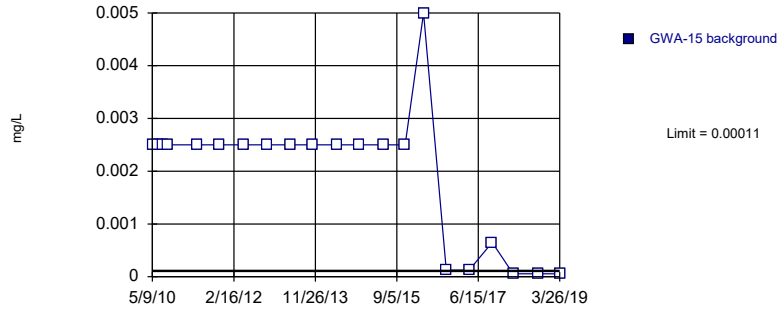
Prediction Limit  
 Intrawell Non-parametric, GWC-9



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. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

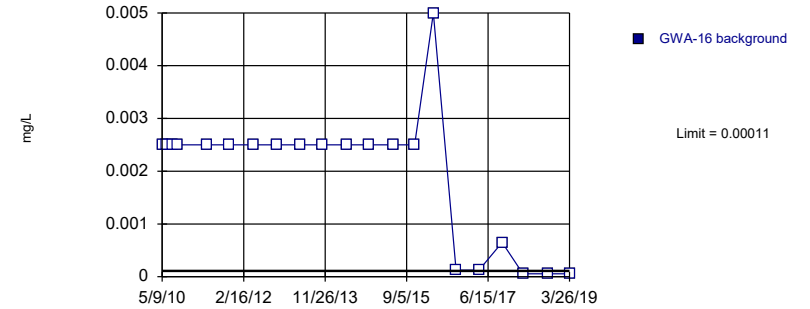
Prediction Limit  
 Intrawell Non-parametric, GWA-15 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

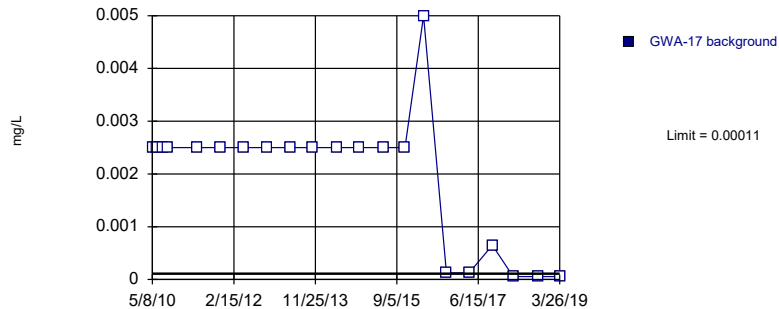
Prediction Limit  
 Intrawell Non-parametric, GWA-16 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

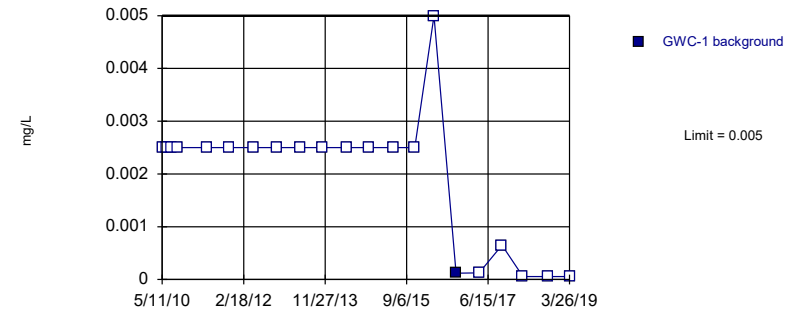
Prediction Limit  
 Intrawell Non-parametric, GWA-17 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

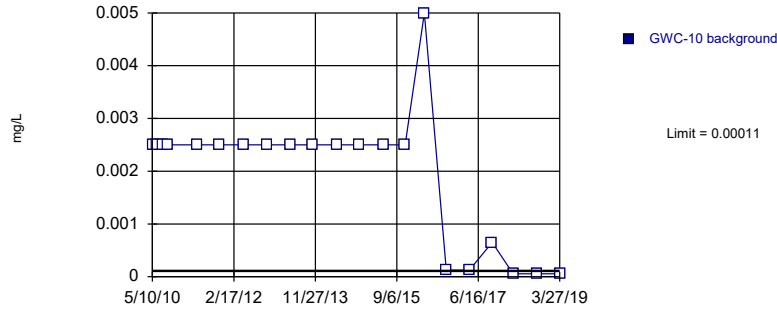
Prediction Limit  
 Intrawell Non-parametric, GWC-1



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. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

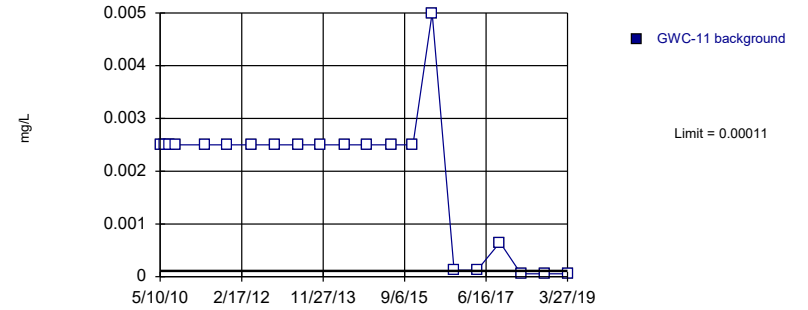
Prediction Limit  
 Intrawell Non-parametric, GWC-10



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

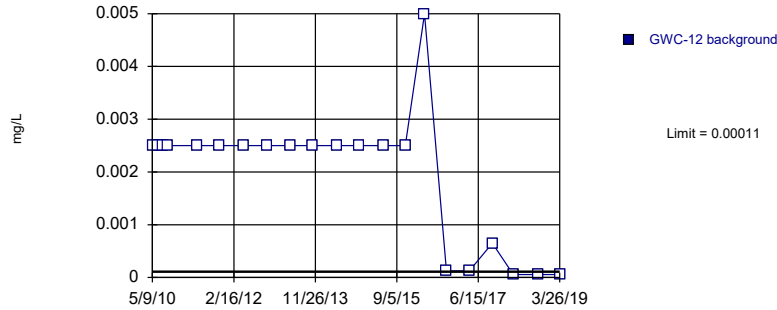
Prediction Limit  
 Intrawell Non-parametric, GWC-11



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

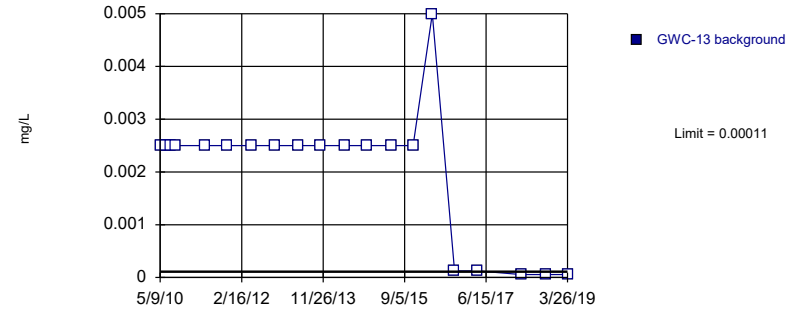
Prediction Limit  
 Intrawell Non-parametric, GWC-12



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Prediction Limit  
 Intrawell Non-parametric, GWC-13

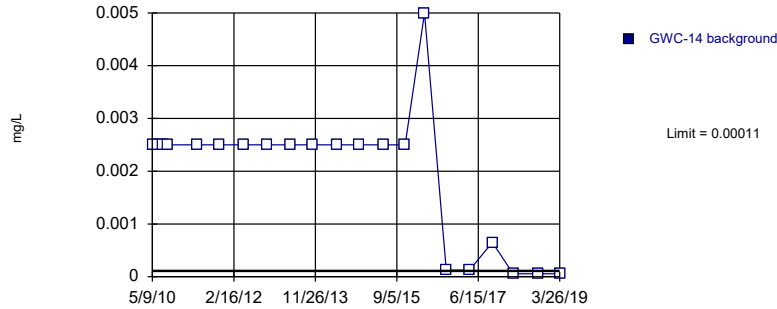


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



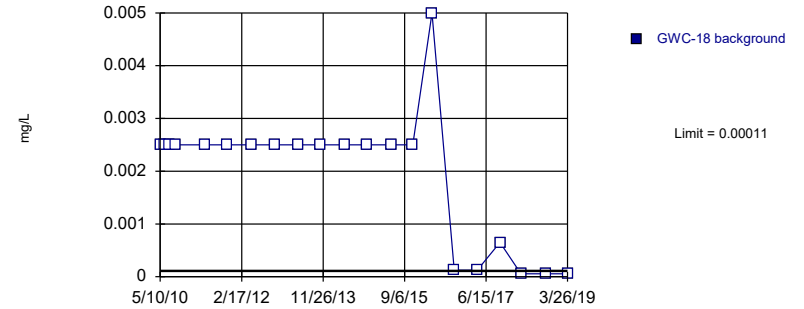
### Prediction Limit Intrawell Non-parametric, GWC-14



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

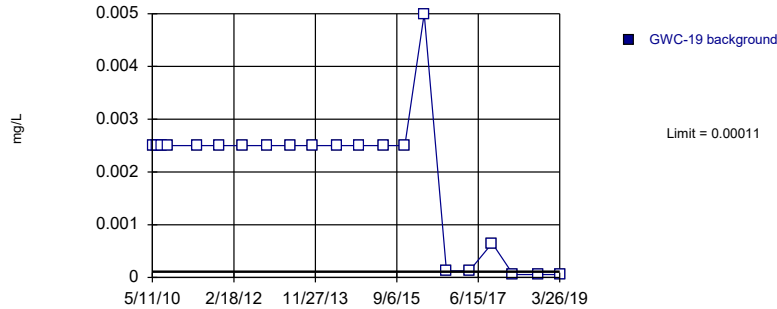
### Prediction Limit Intrawell Non-parametric, GWC-18



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

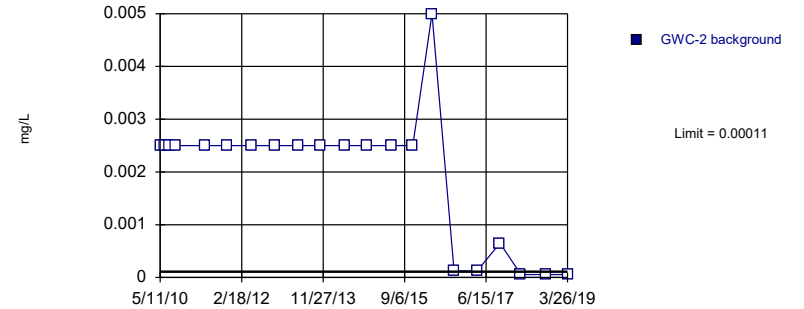
### Prediction Limit Intrawell Non-parametric, GWC-19



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

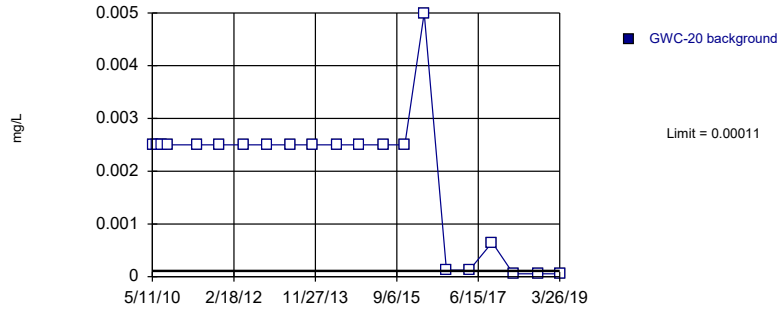
### Prediction Limit Intrawell Non-parametric, GWC-2



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

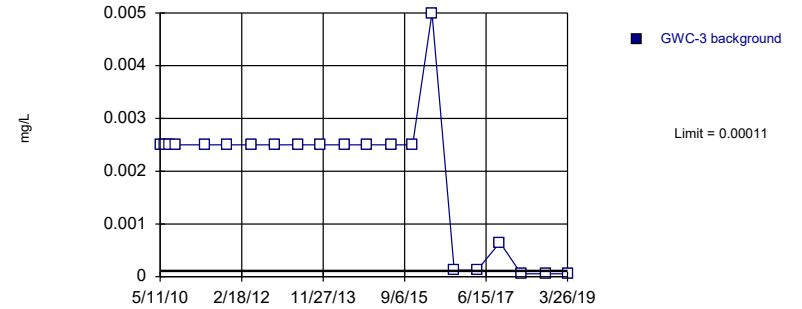
### Prediction Limit Intrawell Non-parametric, GWC-20



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

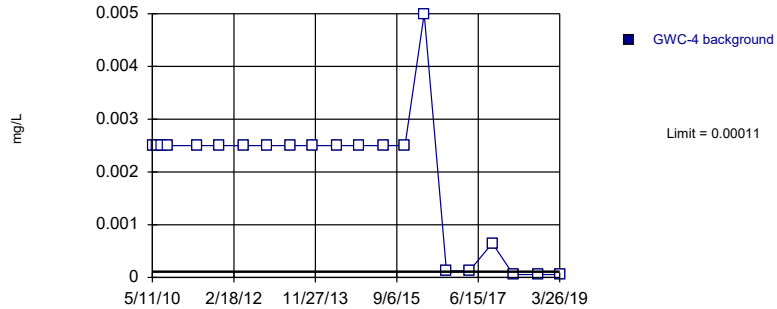
### Prediction Limit Intrawell Non-parametric, GWC-3



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

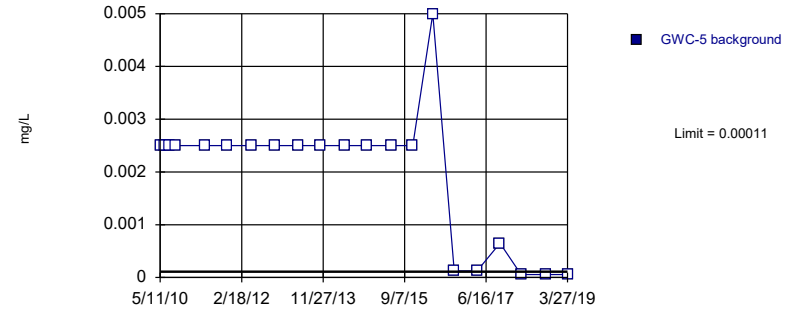
### Prediction Limit Intrawell Non-parametric, GWC-4



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

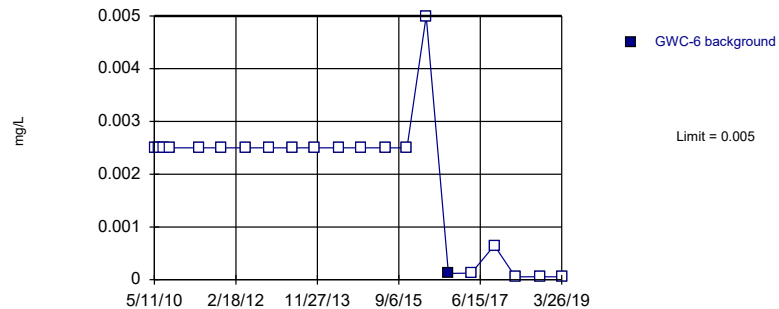
### Prediction Limit Intrawell Non-parametric, GWC-5



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

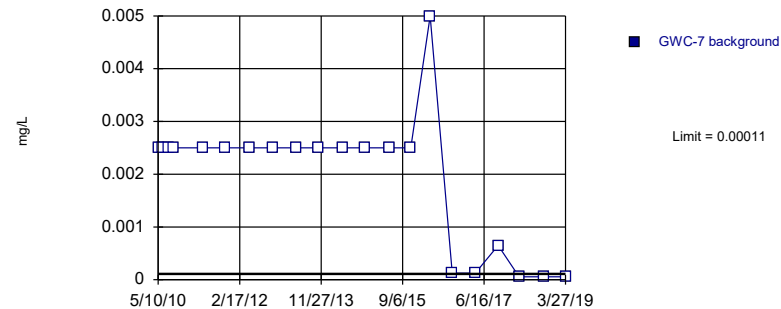
Prediction Limit  
 Intrawell Non-parametric, GWC-6



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. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

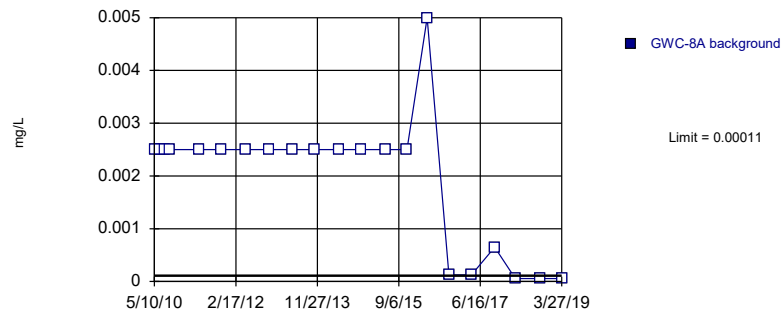
Prediction Limit  
 Intrawell Non-parametric, GWC-7



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

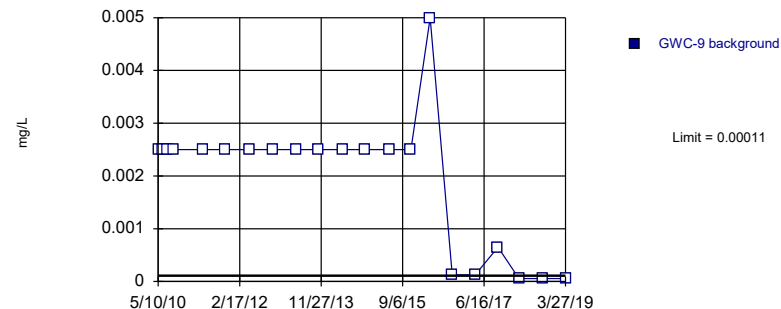
Prediction Limit  
 Intrawell Non-parametric, GWC-8A



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Prediction Limit  
 Intrawell Non-parametric, GWC-9



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
<b>Barium, Total (ug/L)</b>	<b>GWC-4</b>	<b>50.32</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>53</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param Intra</b>
<b>Vanadium (mg/L)</b>	<b>GWC-6</b>	<b>0.01134</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>0.012</b>	<b>Yes</b>	<b>17</b>	<b>5.882</b>	<b>x^2</b>	<b>0.01</b>	<b>Param Intra</b>

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Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium, Total (ug/L)	GWA-15	12.32	n/a	3/26/2019	9.9	No	25	4	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWA-16	31.63	n/a	3/26/2019	24	No	25	0	No	0.01	Param Intra
Barium, Total (ug/L)	GWA-17	50.38	n/a	3/26/2019	31	No	25	4	No	0.01	Param Intra
Barium, Total (ug/L)	GWC-1	58.75	n/a	3/26/2019	44	No	25	0	x^(1/3)	0.01	Param Intra
Barium, Total (ug/L)	GWC-10	32.91	n/a	3/27/2019	27	No	25	8	x^2	0.01	Param Intra
Barium, Total (ug/L)	GWC-11	19.06	n/a	3/27/2019	16.26	No	25	8	x^4	0.01	Param Intra Deseas
Barium, Total (ug/L)	GWC-12	19.04	n/a	3/26/2019	17	No	25	8	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWC-13	45	n/a	3/26/2019	35	No	25	0	n/a	0.03846	NP Intra (normality)
Barium, Total (ug/L)	GWC-14	10.82	n/a	3/26/2019	9.2	No	23	4.348	x^4	0.01	Param Intra
Barium, Total (ug/L)	GWC-18	42.39	n/a	3/26/2019	34.47	No	25	4	x^3	0.01	Param Intra Deseas
Barium, Total (ug/L)	GWC-19	19.56	n/a	3/26/2019	18	No	25	4	x^6	0.01	Param Intra
Barium, Total (ug/L)	GWC-2	55	n/a	3/26/2019	45	No	25	0	n/a	0.03846	NP Intra (normality)
Barium, Total (ug/L)	GWC-20	36.12	n/a	3/26/2019	30	No	25	4	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWC-3	39	n/a	3/26/2019	15	No	24	4.167	n/a	0.04	NP Intra (normality)
<b>Barium, Total (ug/L)</b>	<b>GWC-4</b>	<b>50.32</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>53</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param Intra</b>
Barium, Total (ug/L)	GWC-5	196.8	n/a	3/27/2019	38	No	25	0	ln(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-6	66.58	n/a	3/26/2019	52	No	25	0	No	0.01	Param Intra
Barium, Total (ug/L)	GWC-7	42.12	n/a	3/27/2019	33	No	25	0	sqrt(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-8A	126.8	n/a	3/27/2019	25	No	25	0	sqrt(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-9	32.05	n/a	3/27/2019	23.98	No	25	4	No	0.01	Param Intra Deseas
Chromium, Total (ug/L)	GWA-15	1.1	n/a	3/26/2019	0.55ND	No	24	100	n/a	0.04	NP Intra (NDs)
Chromium, Total (ug/L)	GWA-16	7.074	n/a	3/26/2019	4.6	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWA-17	10.38	n/a	3/26/2019	6.5	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-1	16.73	n/a	3/26/2019	13	No	19	0	x^2	0.01	Param Intra
Chromium, Total (ug/L)	GWC-10	20	n/a	3/27/2019	17	No	11	0	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-11	12	n/a	3/27/2019	7	No	25	4	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-12	5	n/a	3/26/2019	1.3	No	24	41.67	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-13	7.7	n/a	3/26/2019	4.8	No	24	0	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-14	5	n/a	3/26/2019	0.55ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Chromium, Total (ug/L)	GWC-18	20	n/a	3/26/2019	14	No	25	0	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-19	14.91	n/a	3/26/2019	9.1	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-2	12.63	n/a	3/26/2019	9.6	No	25	8	x^3	0.01	Param Intra
Chromium, Total (ug/L)	GWC-20	15.03	n/a	3/26/2019	9.2	No	25	8	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-3	22	n/a	3/26/2019	7.5	No	24	4.167	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-4	10.65	n/a	3/26/2019	8.4	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-5	12	n/a	3/27/2019	3.9	No	25	4	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-6	9.957	n/a	3/26/2019	4.4	No	25	8	sqrt(x)	0.01	Param Intra
Chromium, Total (ug/L)	GWC-7	18	n/a	3/27/2019	8.8	No	25	0	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-8A	38	n/a	3/27/2019	0.55ND	No	25	32	n/a	0.03846	NP Intra (Cohens/xform)
Chromium, Total (ug/L)	GWC-9	13.83	n/a	3/27/2019	8.533	No	25	4	sqrt(x)	0.01	Param Intra Deseas
Cobalt, Total (ug/L)	GWA-15	5	n/a	3/26/2019	1.9	No	24	62.5	n/a	0.04	NP Intra (NDs)
Cobalt, Total (ug/L)	GWA-16	5	n/a	3/26/2019	0.2ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Cobalt, Total (ug/L)	GWA-17	5	n/a	3/26/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-1	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-10	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-11	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-12	5	n/a	3/26/2019	0.2ND	No	25	80	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-13	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-14	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-18	0.4	n/a	3/26/2019	0.2ND	No	24	100	n/a	0.04	NP Intra (NDs)

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Cobalt, Total (ug/L)	GWC-19	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-2	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-20	5	n/a	3/26/2019	0.2ND	No	25	92	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-3	5	n/a	3/26/2019	0.2ND	No	23	86.96	n/a	0.04167	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-4	5	n/a	3/26/2019	0.96	No	25	92	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-5	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-6	5	n/a	3/26/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-7	5	n/a	3/27/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-8A	5	n/a	3/27/2019	1.2	No	22	63.64	n/a	0.04348	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-9	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Copper (mg/L)	GWA-15	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWA-16	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWA-17	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-1	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-10	0.0021	n/a	3/27/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-11	0.0125	n/a	3/27/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-12	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-13	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-14	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-18	0.0125	n/a	3/26/2019	0.00105ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-19	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-2	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-20	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-3	0.0125	n/a	3/26/2019	0.00105ND	No	19	84.21	n/a	0.05	NP Intra (NDs)
Copper (mg/L)	GWC-4	0.0125	n/a	3/26/2019	0.0039	No	20	55	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-5	0.0021	n/a	3/27/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-6	0.0125	n/a	3/26/2019	0.00105ND	No	20	85	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-7	0.0125	n/a	3/27/2019	0.00105ND	No	19	78.95	n/a	0.05	NP Intra (NDs)
Copper (mg/L)	GWC-8A	0.18	n/a	3/27/2019	0.00105ND	No	20	20	n/a	0.04762	NP Intra (Cohens/xform)
Copper (mg/L)	GWC-9	0.0021	n/a	3/27/2019	0.00105ND	No	18	100	n/a	0.05263	NP Intra (NDs)
Lead, Total (ug/L)	GWA-15	4.418	n/a	3/26/2019	1.05666...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWA-16	5.1	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWA-17	4.36	n/a	3/26/2019	1.13333...	No	25	76	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-1	4.4	n/a	3/26/2019	0.175ND	No	24	66.67	n/a	0.04	NP Intra (NDs)
Lead, Total (ug/L)	GWC-10	7	n/a	3/27/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-11	5.1	n/a	3/27/2019	0.175ND	No	24	70.83	n/a	0.04	NP Intra (NDs)
Lead, Total (ug/L)	GWC-12	4.418	n/a	3/26/2019	1.05666...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-13	5	n/a	3/26/2019	0.175ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Lead, Total (ug/L)	GWC-14	0.35	n/a	3/26/2019	0.175ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Lead, Total (ug/L)	GWC-18	5.2	n/a	3/26/2019	0.175ND	No	25	72	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-19	5.6	n/a	3/26/2019	0.175ND	No	25	60	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-2	6.3	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-20	5.6	n/a	3/26/2019	0.175ND	No	25	68	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-3	11	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-4	6.2	n/a	3/26/2019	0.175ND	No	25	68	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-5	0.35	n/a	3/27/2019	0.175ND	No	19	100	n/a	0.05	NP Intra (NDs)
Lead, Total (ug/L)	GWC-6	6.7	n/a	3/26/2019	0.175ND	No	25	72	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-7	5.76	n/a	3/27/2019	1.28777...	No	25	64	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-8A	8.3	n/a	3/27/2019	0.175ND	No	20	65	n/a	0.04762	NP Intra (NDs)
Lead, Total (ug/L)	GWC-9	6.9	n/a	3/27/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)

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Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Nickel (mg/L)	GWA-15	0.003056	n/a	3/26/2019	0.00145...	No	20	95	n/a	0.04762	NP Intra (NDs) Deseas
Nickel (mg/L)	GWA-16	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWA-17	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-1	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-10	0.00323	n/a	3/27/2019	0.00162...	No	19	94.74	n/a	0.05	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-11	0.0018	n/a	3/27/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-12	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-13	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-14	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-18	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-19	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-2	0.003123	n/a	3/26/2019	0.00152...	No	19	84.21	n/a	0.05	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-20	0.005	n/a	3/26/2019	0.0009ND	No	19	89.47	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-3	0.005	n/a	3/26/2019	0.0009ND	No	17	82.35	n/a	0.05556	NP Intra (NDs)
Nickel (mg/L)	GWC-4	0.005	n/a	3/26/2019	0.0036	No	20	95	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-5	0.00268	n/a	3/27/2019	0.0009ND	No	19	84.21	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-6	0.0018	n/a	3/26/2019	0.0009ND	No	16	100	n/a	0.05882	NP Intra (NDs)
Nickel (mg/L)	GWC-7	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-8A	0.004766	n/a	3/27/2019	0.00170...	No	17	58.82	n/a	0.05556	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-9	0.0018	n/a	3/27/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-15	10	n/a	3/26/2019	0.355ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-16	10	n/a	3/26/2019	0.355ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-17	9.409	n/a	3/26/2019	2.88250...	No	24	95.83	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-1	10	n/a	3/26/2019	0.355ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-10	0.24	n/a	3/27/2019	0.355ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-11	5	n/a	3/27/2019	0.355ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-12	9.418	n/a	3/26/2019	2.88250...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-13	9.418	n/a	3/26/2019	2.88250...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-14	10	n/a	3/26/2019	0.355ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-18	9.36	n/a	3/26/2019	2.82472...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-19	9.36	n/a	3/26/2019	2.82472...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-2	0.24	n/a	3/26/2019	0.355ND	No	22	100	n/a	0.04348	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-20	9.418	n/a	3/26/2019	2.88250...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-3	9.418	n/a	3/26/2019	2.88250...	No	25	96	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-4	9.418	n/a	3/26/2019	2.79416...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-5	69.84	n/a	3/27/2019	23	No	13	0	No	0.01	Param Intra
Selenium, Total (ug/L)	GWC-6	10	n/a	3/26/2019	0.355ND	No	24	75	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-7	0.24	n/a	3/27/2019	0.355ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-8A	5	n/a	3/27/2019	0.355ND	No	23	91.3	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-9	0.24	n/a	3/27/2019	0.355ND	No	24	100	n/a	0.04	NP Intra (NDs)
Vanadium (mg/L)	GWA-15	0.005	n/a	3/26/2019	0.0007ND	No	20	85	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWA-16	0.01243	n/a	3/26/2019	0.007	No	20	5	sqrt(x)	0.01	Param Intra
Vanadium (mg/L)	GWA-17	0.0144	n/a	3/26/2019	0.0051	No	20	20	No	0.01	Param Intra
Vanadium (mg/L)	GWC-1	0.02419	n/a	3/26/2019	0.017	No	14	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-10	0.01747	n/a	3/27/2019	0.012	No	20	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-11	0.01464	n/a	3/27/2019	0.012	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-12	0.005	n/a	3/26/2019	0.0029	No	20	90	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWC-13	0.005	n/a	3/26/2019	0.0041	No	20	85	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWC-14	0.006028	n/a	3/26/2019	0.004428	No	20	90	n/a	0.04762	NP Intra (NDs) Deseas
Vanadium (mg/L)	GWC-18	0.01	n/a	3/26/2019	0.0094	No	20	5	n/a	0.04762	NP Intra (normality)

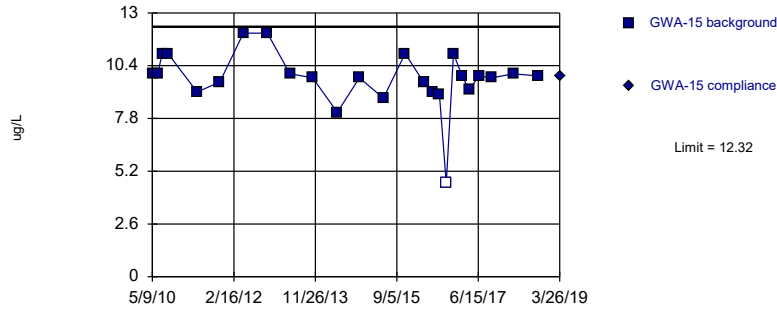
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Vanadium (mg/L)	GWC-19	0.01053	n/a	3/26/2019	0.0094	No	20	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-2	0.02062	n/a	3/26/2019	0.016	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-20	0.02341	n/a	3/26/2019	0.018	No	20	5	x^2	0.01	Param Intra
Vanadium (mg/L)	GWC-3	0.01174	n/a	3/26/2019	0.0076	No	19	5.263	sqrt(x)	0.01	Param Intra
Vanadium (mg/L)	GWC-4	0.01211	n/a	3/26/2019	0.011	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-5	0.01736	n/a	3/27/2019	0.002	No	20	30	No	0.01	Param Intra
<b>Vanadium (mg/L)</b>	<b>GWC-6</b>	<b>0.01134</b>	<b>n/a</b>	<b>3/26/2019</b>	<b>0.012</b>	<b>Yes</b>	<b>17</b>	<b>5.882</b>	<b>x^2</b>	<b>0.01</b>	<b>Param Intra</b>
Vanadium (mg/L)	GWC-7	0.015	n/a	3/27/2019	0.013	No	19	5.263	n/a	0.05	NP Intra (normality)
Vanadium (mg/L)	GWC-8A	0.0457	n/a	3/27/2019	0.003	No	17	5.882	No	0.01	Param Intra
Vanadium (mg/L)	GWC-9	0.0261	n/a	3/27/2019	0.019	No	20	5	No	0.01	Param Intra
Zinc (mg/L)	GWA-15	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWA-16	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWA-17	0.01	n/a	3/26/2019	0.00325ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-1	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-10	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-11	0.0126	n/a	3/27/2019	0.00585...	No	19	89.47	n/a	0.05	NP Intra (NDs) Deseas
Zinc (mg/L)	GWC-12	0.01	n/a	3/26/2019	0.00325ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-13	0.01	n/a	3/26/2019	0.00325ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-14	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-18	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-19	0.0065	n/a	3/26/2019	0.00325ND	No	19	100	n/a	0.05	NP Intra (NDs)
Zinc (mg/L)	GWC-2	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-20	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-3	0.0065	n/a	3/26/2019	0.00325ND	No	17	100	n/a	0.05556	NP Intra (NDs)
Zinc (mg/L)	GWC-4	0.01295	n/a	3/26/2019	0.00620...	No	20	95	n/a	0.04762	NP Intra (NDs) Deseas
Zinc (mg/L)	GWC-5	0.01	n/a	3/27/2019	0.00325ND	No	19	78.95	n/a	0.05	NP Intra (NDs)
Zinc (mg/L)	GWC-6	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-7	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-8A	0.085	n/a	3/27/2019	0.00325ND	No	17	29.41	n/a	0.05556	NP Intra (Cohens/xform)
Zinc (mg/L)	GWC-9	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)



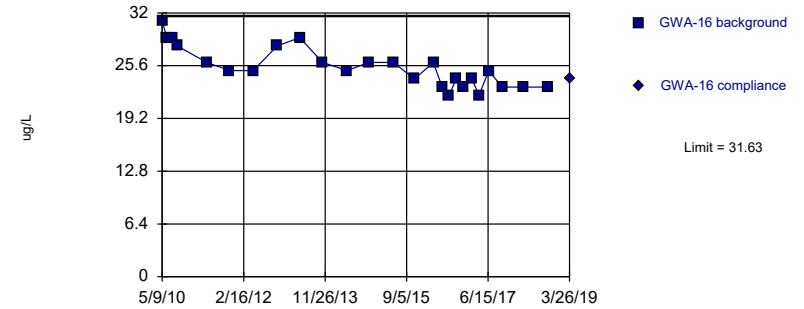
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=984.3, Std. Dev.=348.3, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9203, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

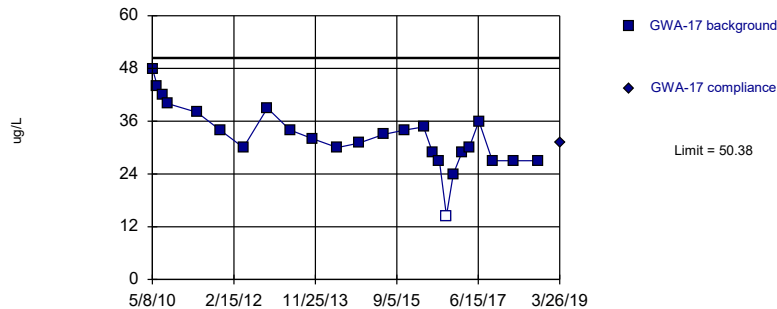
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=25.4, Std. Dev.=2.449, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9295, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

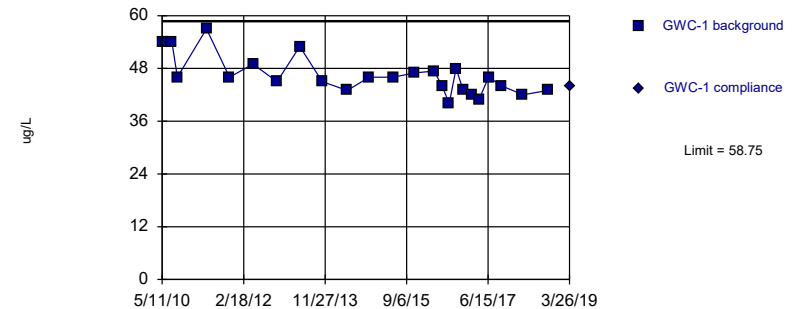
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=32.57, Std. Dev.=7.007, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9694, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
 Intrawell Parametric



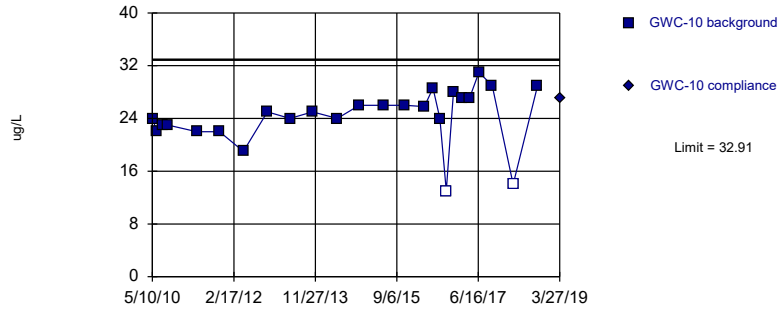
Background Data Summary (based on cube root transformation): Mean=3.595, Std. Dev.=0.1149, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9211, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



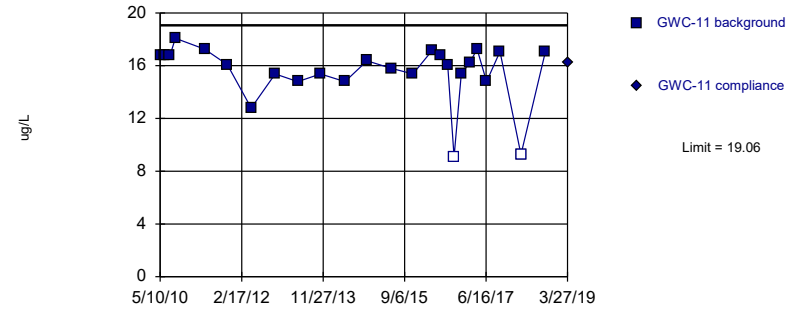
Background Data Summary (based on square transformation): Mean=607.5, Std. Dev.=187.2, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9552, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



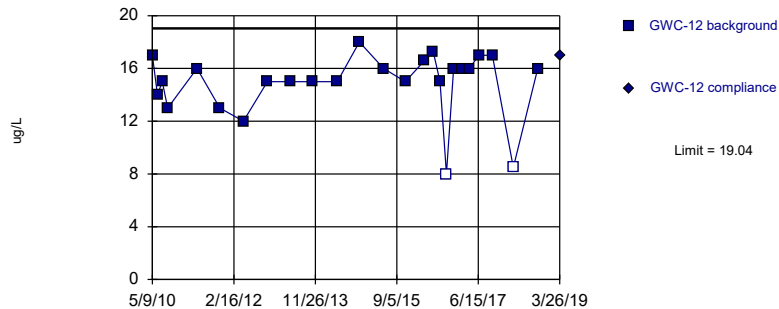
Background Data Summary (based on x^4 transformation): Mean=66150, Std. Dev.=25931, n=25, 8% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9216, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



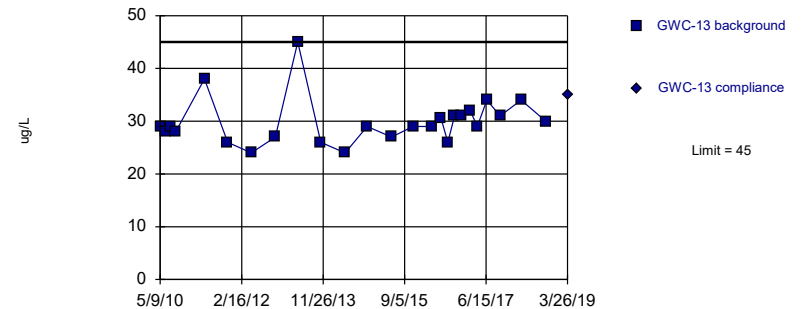
Background Data Summary (based on cube transformation): Mean=3541, Std. Dev.=1322, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9317, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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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 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

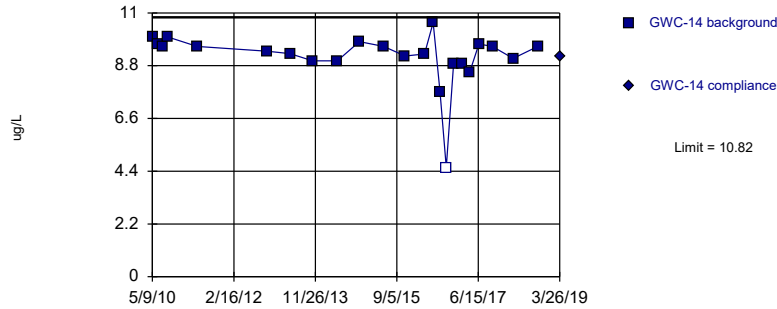
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on  $x^4$  transformation): Mean=7548, Std. Dev.=2400, n=23, 4.348% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9155, critical = 0.914. Report alpha = 0.01. Most recent point compared to limit.

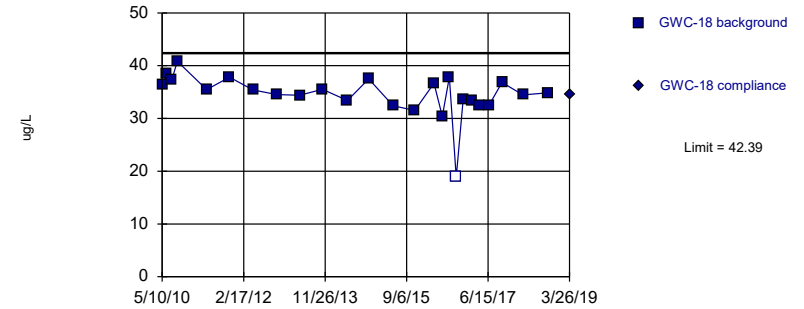
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=43231, Std. Dev.=12957, n=25, 4% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9465, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

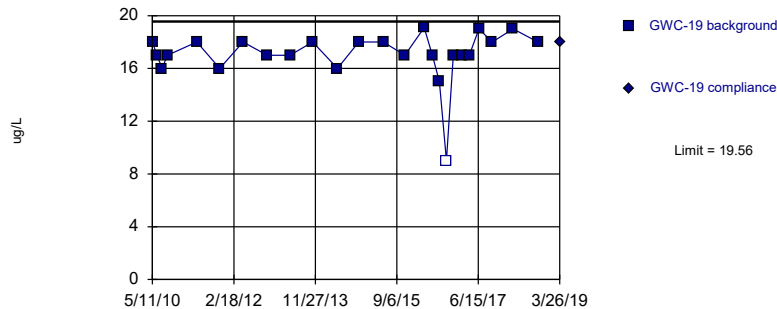
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on  $x^6$  transformation): Mean=2.8e7, Std. Dev.=1.1e7, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9249, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

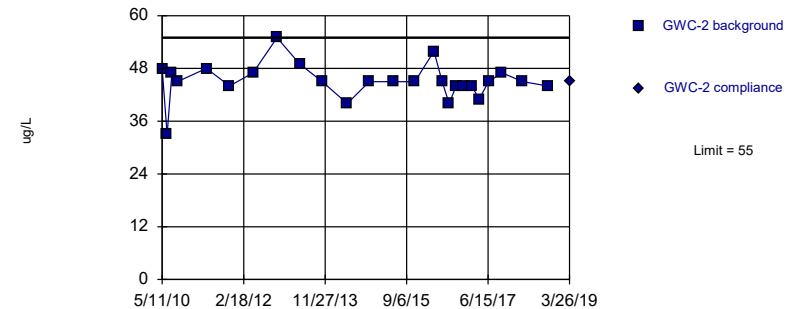
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Within Limit

Prediction Limit

Intrawell Non-parametric



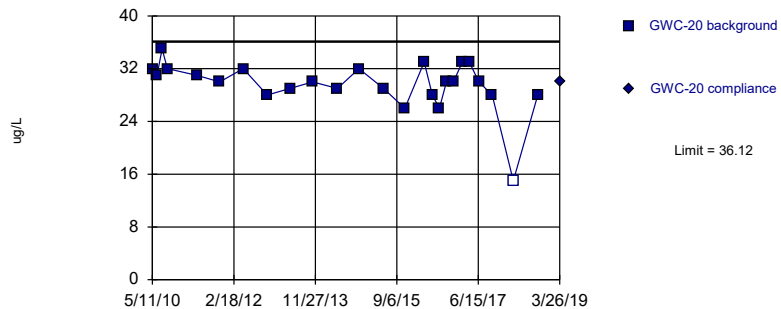
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

Intrawell Parametric



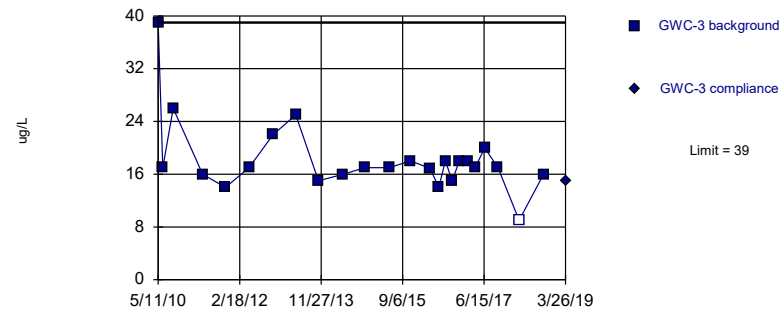
Background Data Summary (based on cube transformation): Mean=27034, Std. Dev.=7901, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9415, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

Intrawell Non-parametric



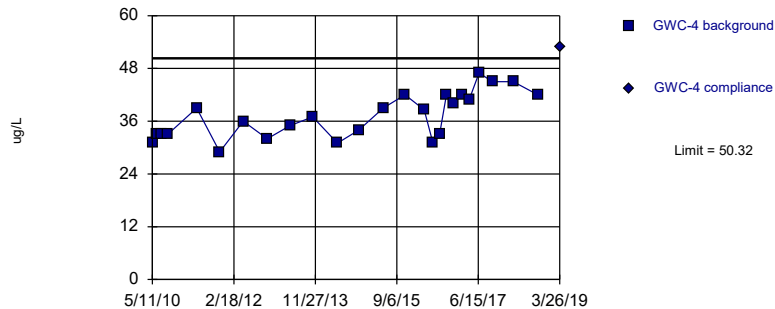
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. 4.167% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit

Intrawell Parametric



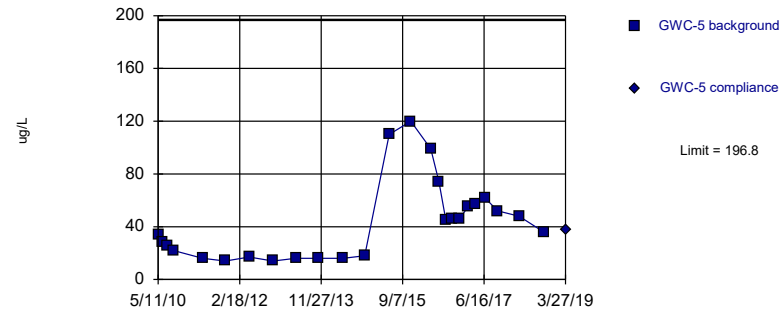
Background Data Summary: Mean=37.22, Std. Dev.=5.153, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9436, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

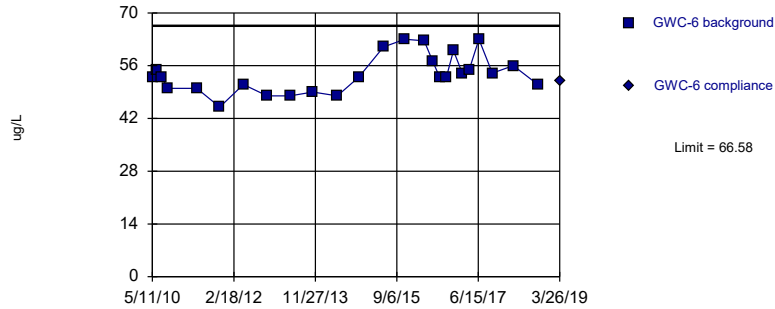
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.549, Std. Dev.=0.6818, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9233, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

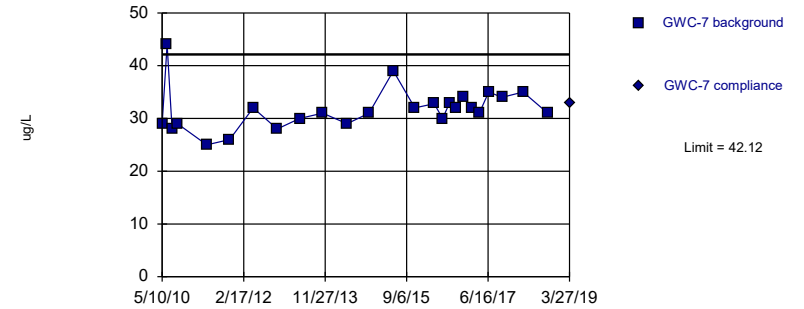
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=53.82, Std. Dev.=5.017, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.939, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

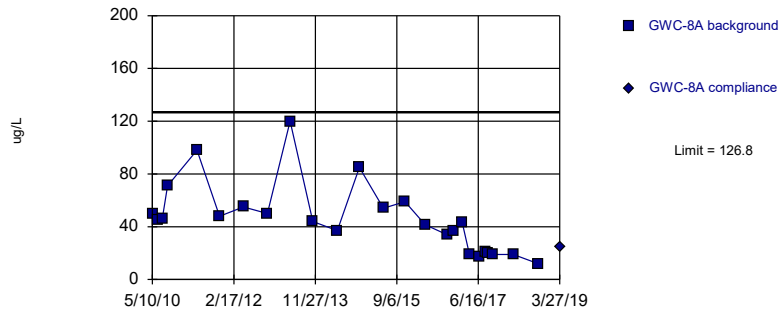
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.621, Std. Dev.=0.3417, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9354, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

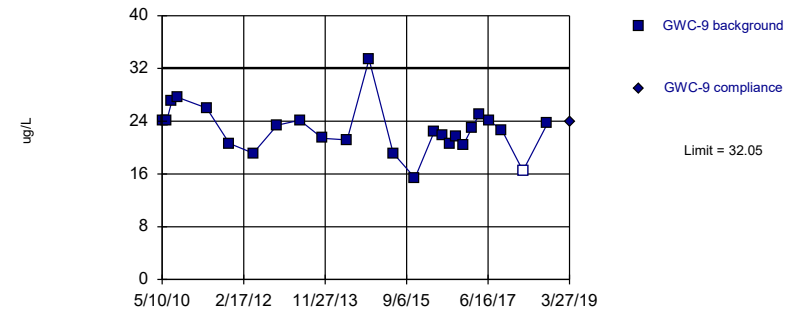
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=6.514, Std. Dev.=1.867, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9488, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric



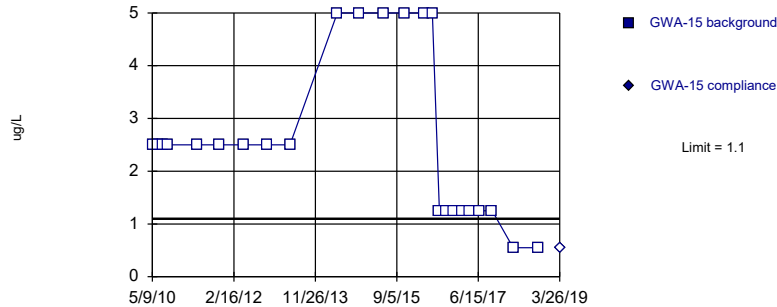
Background Data Summary: Mean=22.75, Std. Dev.=3.659, n=25, 4% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9526, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



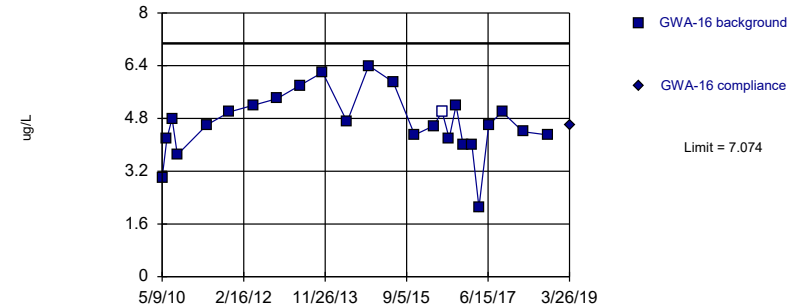
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



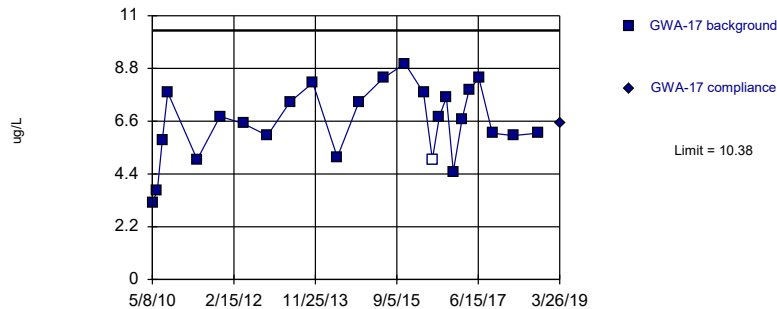
Background Data Summary: Mean=4.663, Std. Dev.=0.9487, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9616, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



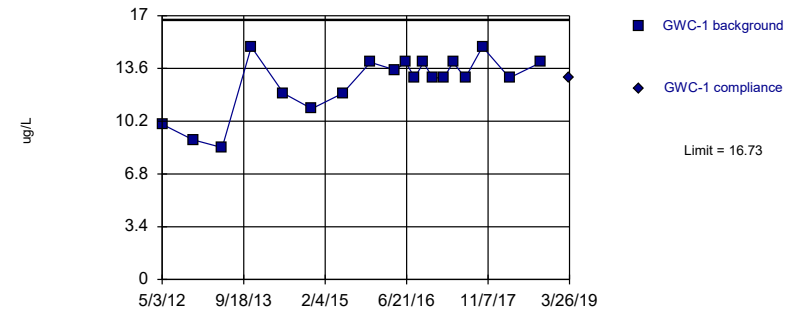
Background Data Summary: Mean=6.528, Std. Dev.=1.517, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9647, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA

Within Limit

Prediction Limit  
Intrawell Parametric

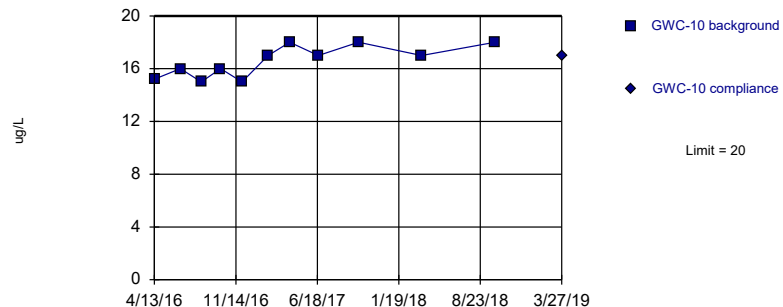


Background Data Summary (based on square transformation): Mean=164.2, Std. Dev.=44.14, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9083, critical = 0.901. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Parametric



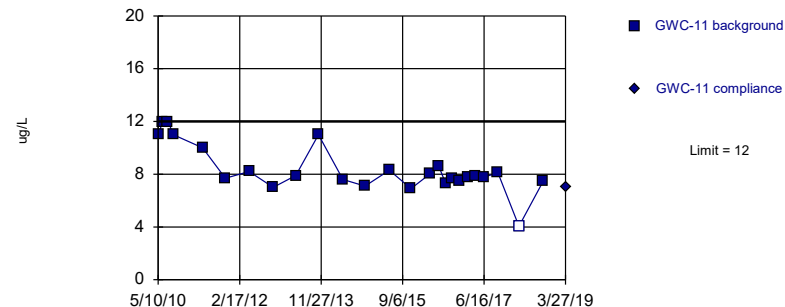
Background Data Summary: Mean=16.56, Std. Dev.=1.189, n=11. Insufficient data to test for seasonality; data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8759, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Hollow symbols indicate censored values.

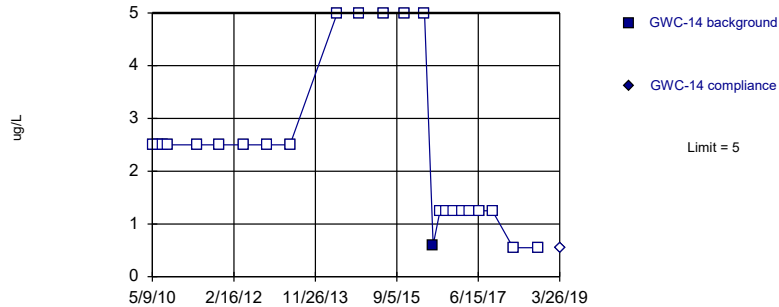
Within Limit

### Prediction Limit Intrawell Non-parametric



Within Limit

Prediction Limit  
 Intrawell Non-parametric

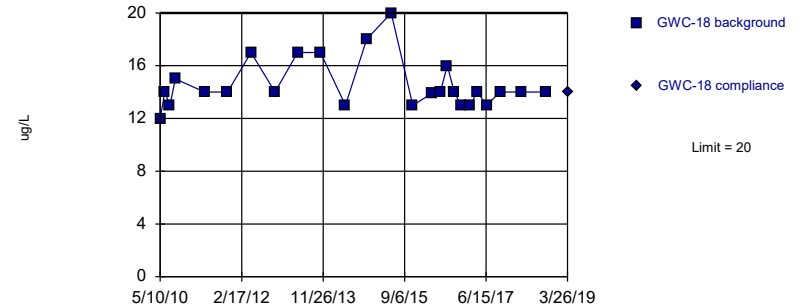


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

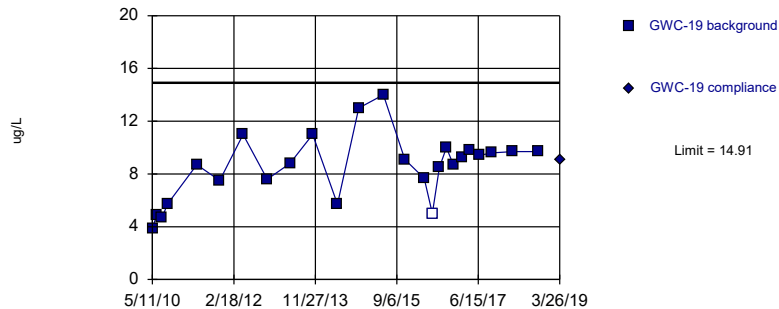


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Parametric

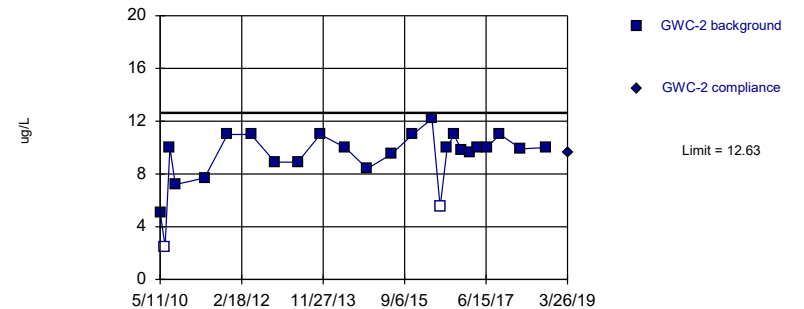


Background Data Summary: Mean=8.519, Std. Dev.=2.517, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9544, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=904.1, Std. Dev.=436.6, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9425, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

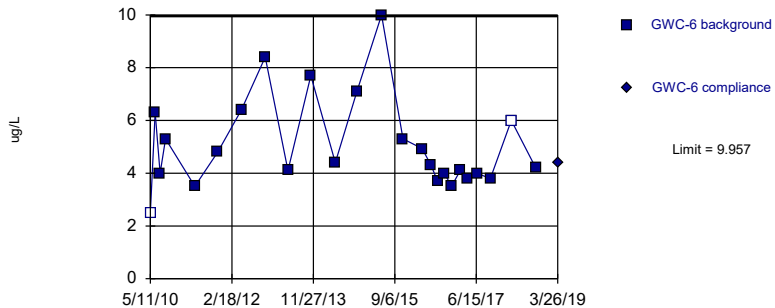
Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF





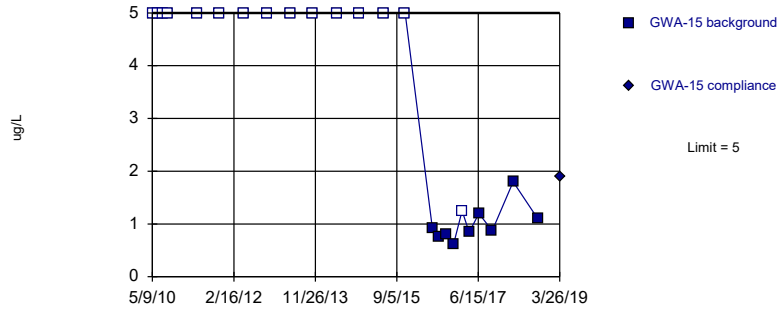
Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
 Hollow symbols indicate censored values.

Within Limit Prediction Limit  
 Intrawell Parametric



Within Limit

Prediction Limit  
 Intrawell Non-parametric

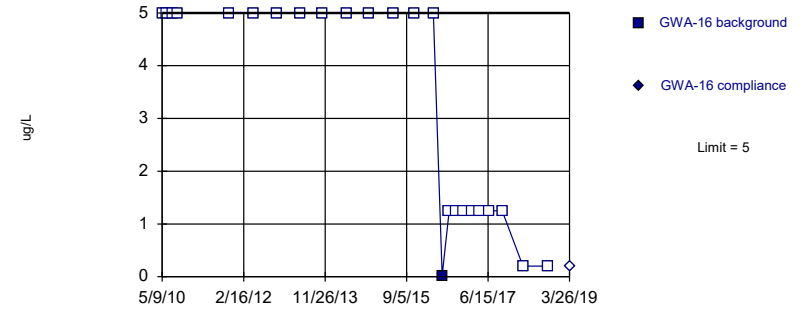


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

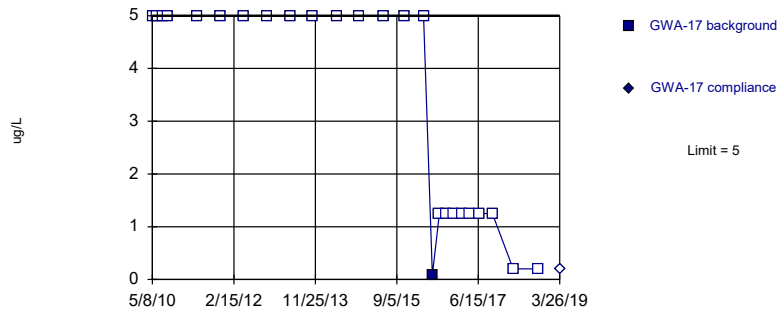


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

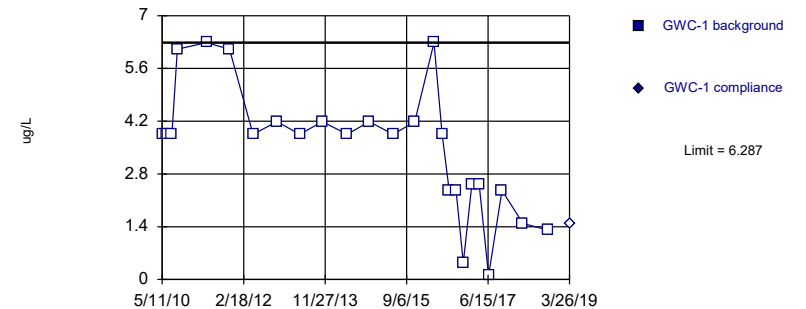


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

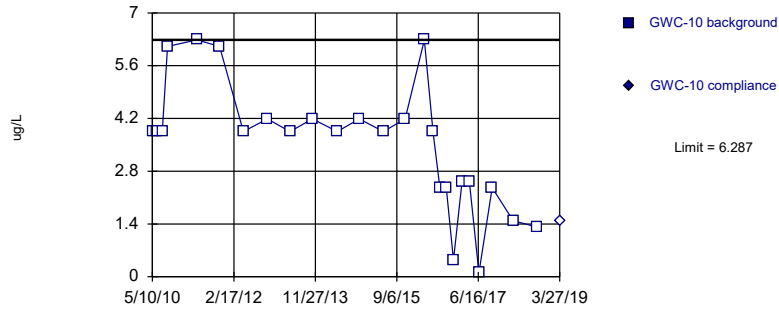


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

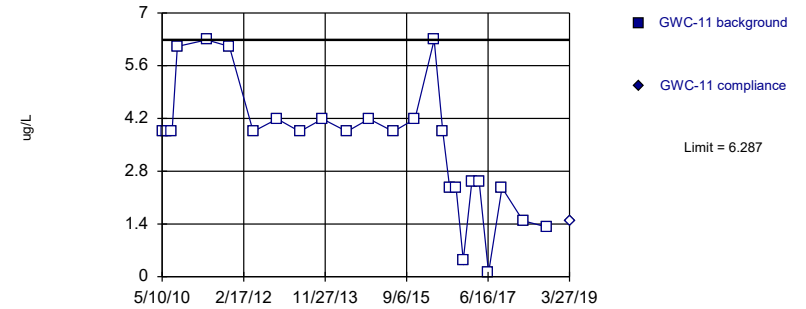


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

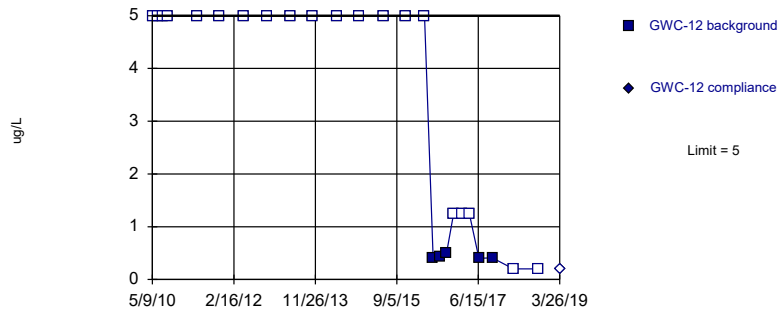


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

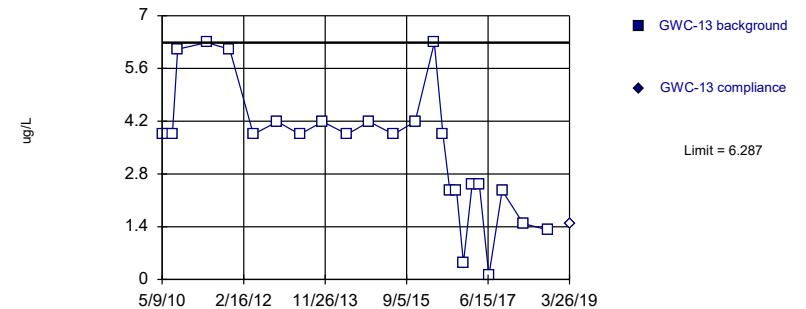


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

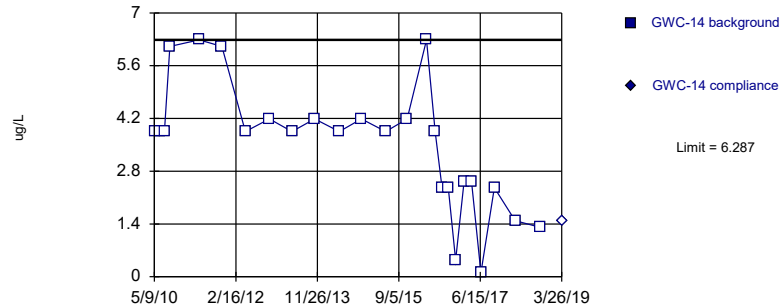


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

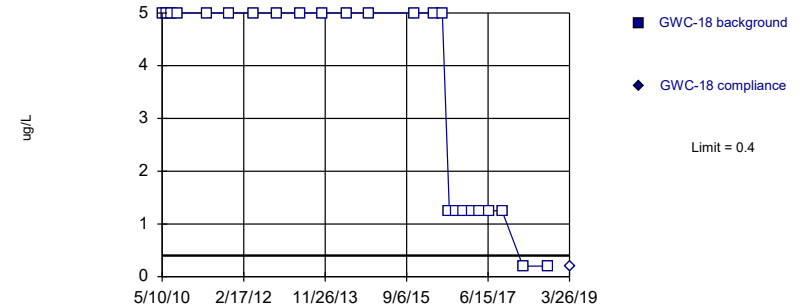


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

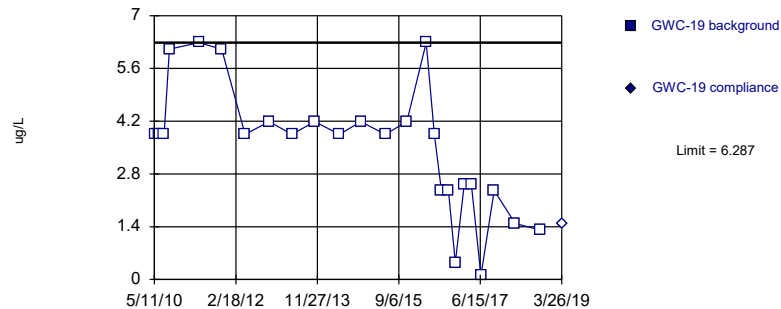


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

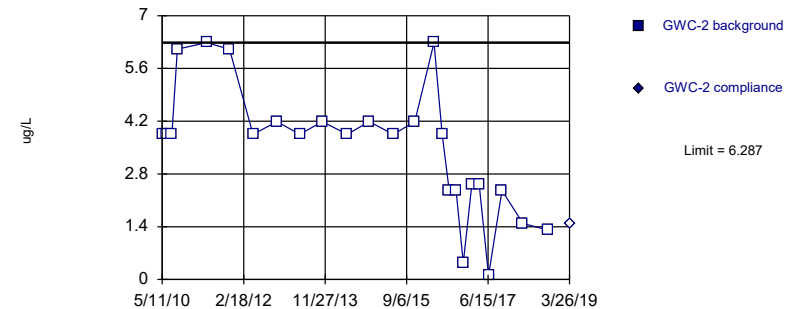


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

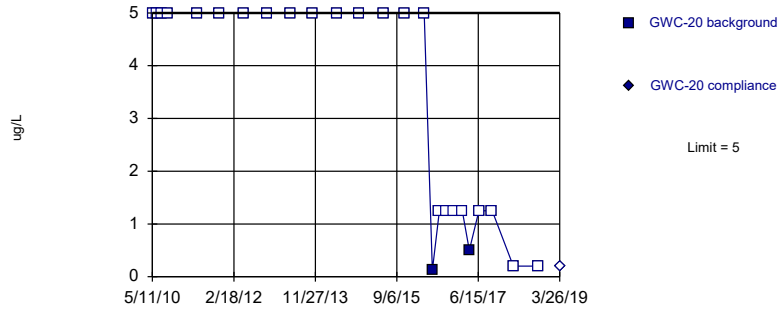


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

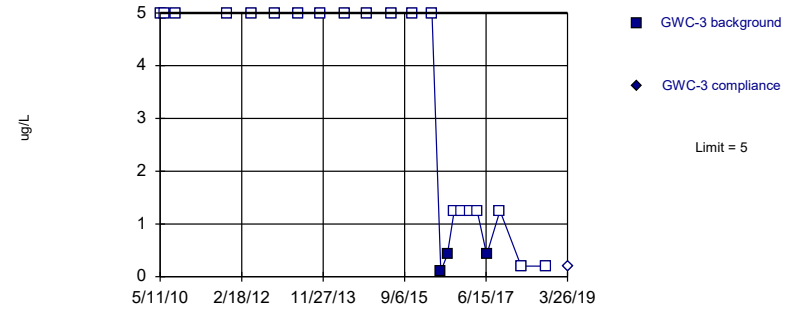


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

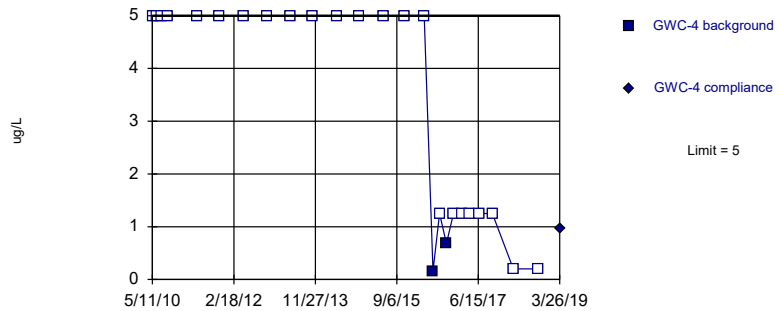


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

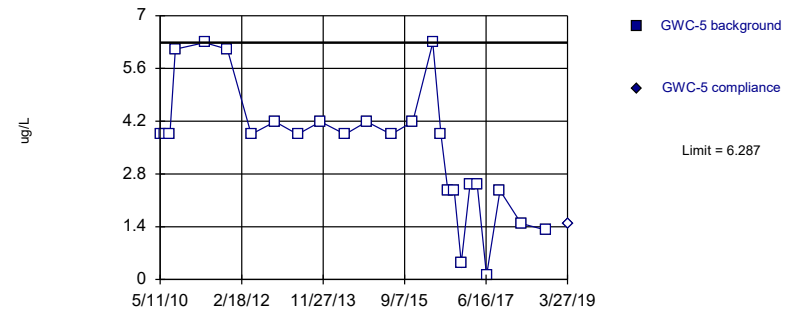


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

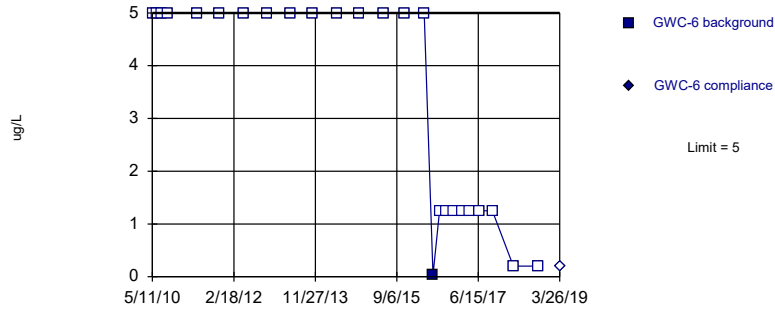


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

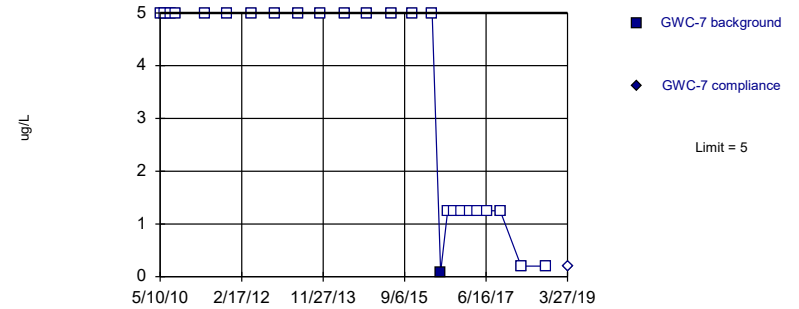


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

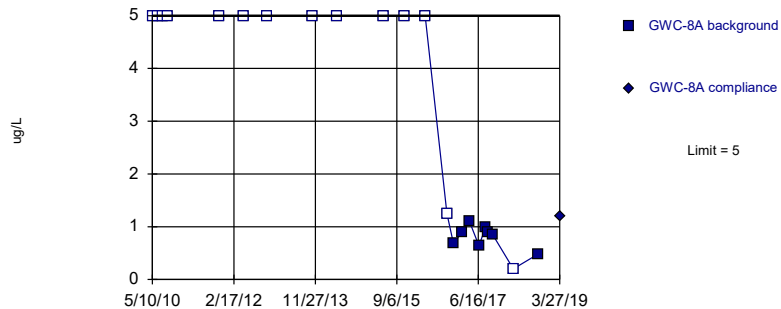


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

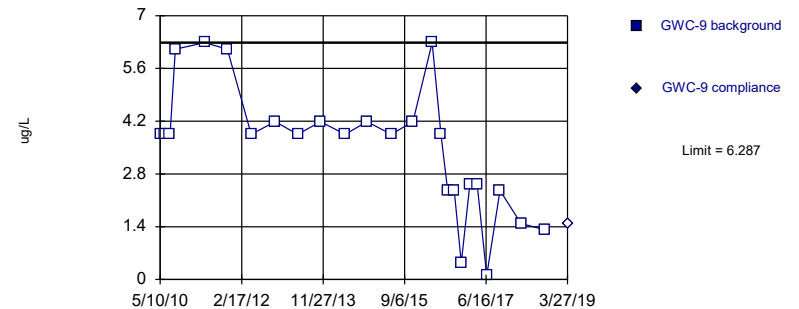


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 63.64% NDs. Report alpha = 0.04348. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

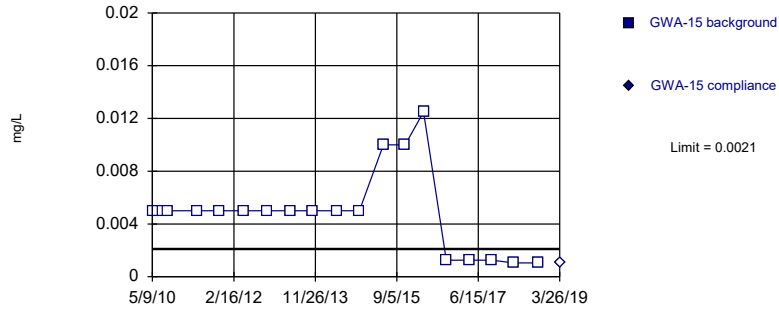


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

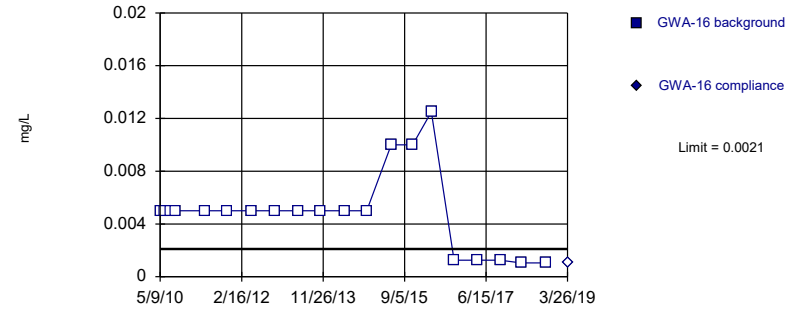


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

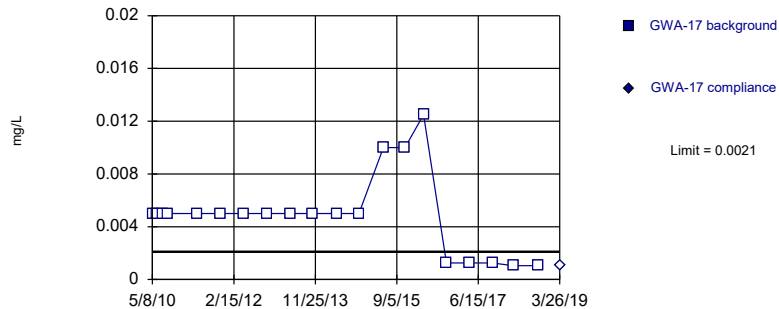


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

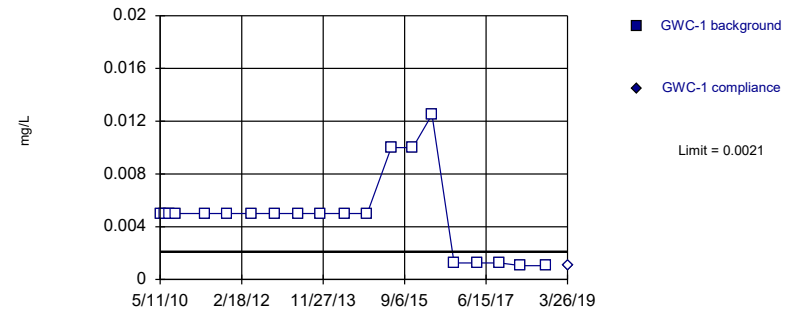


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric



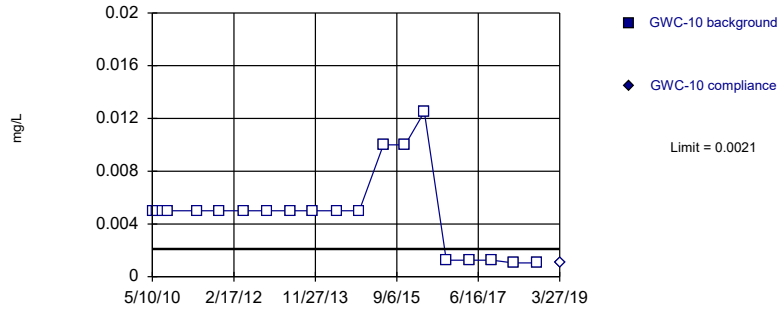
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

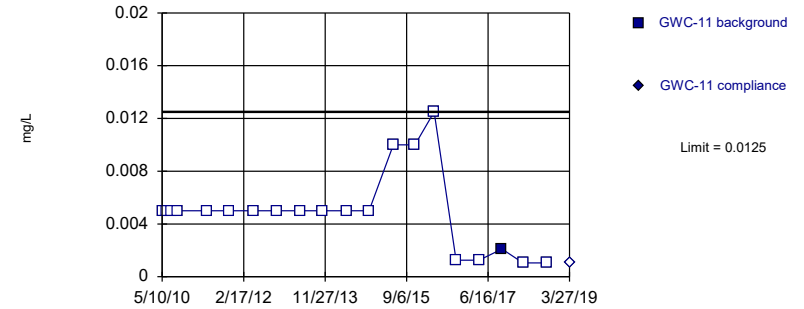


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

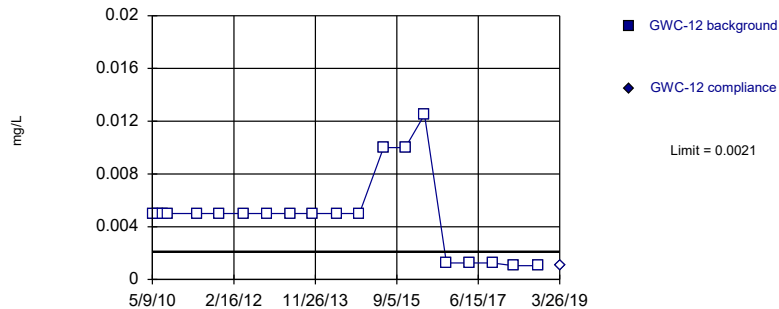


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

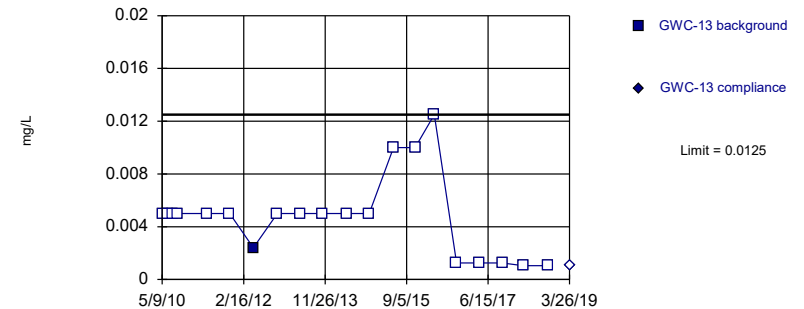


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

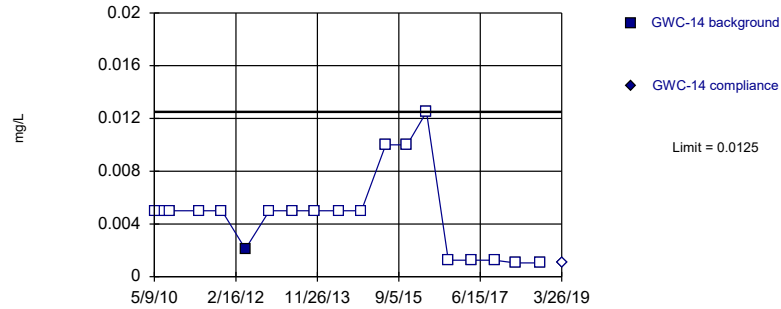


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

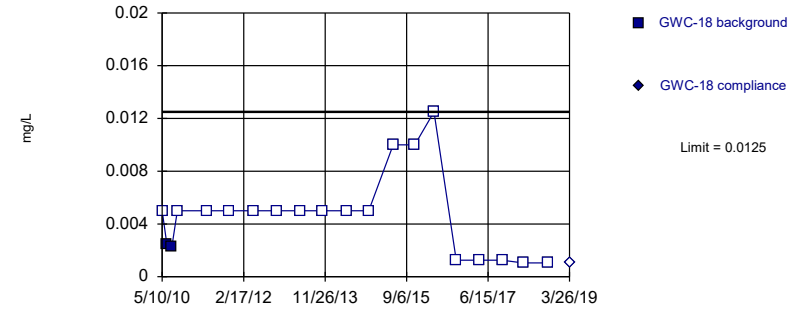


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

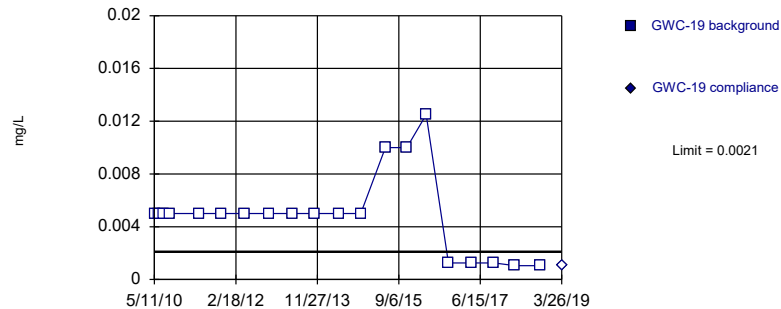


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

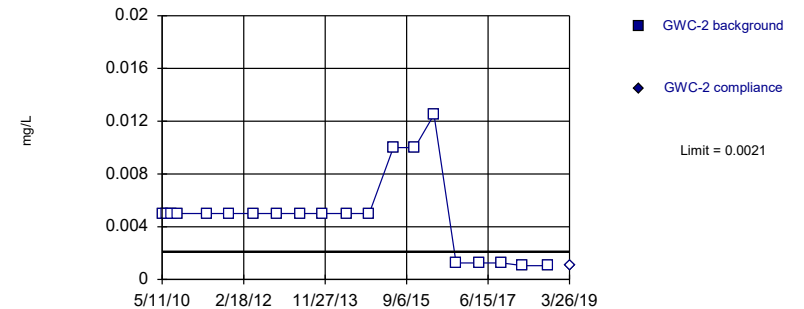


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

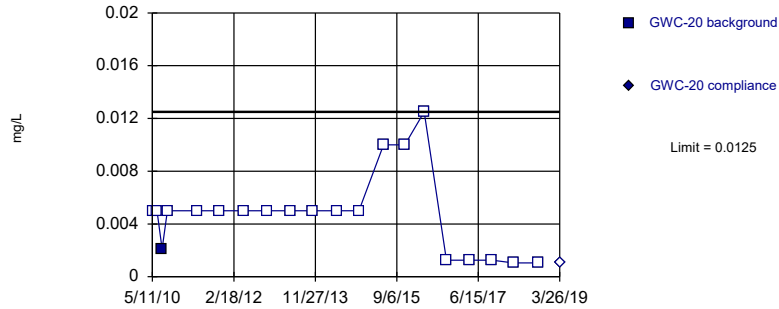


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

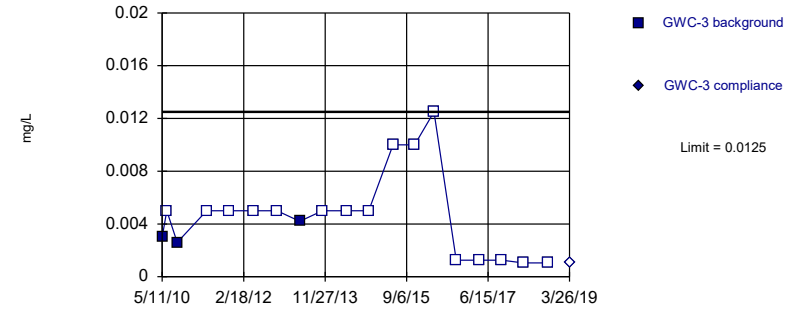


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

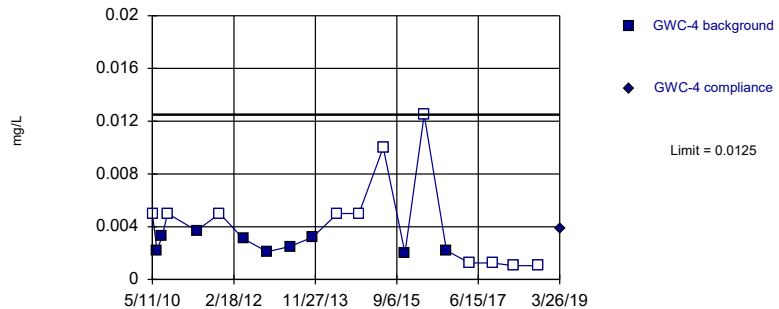


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

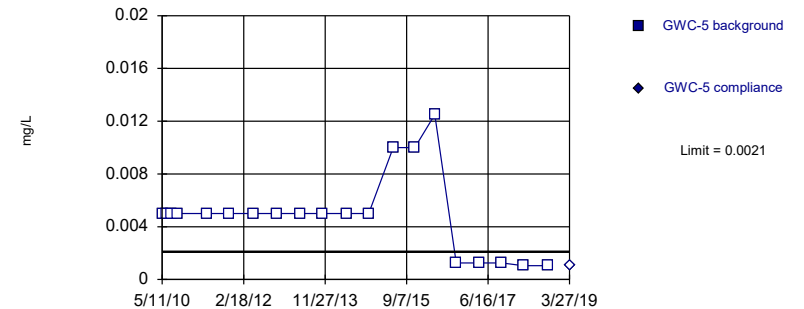


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

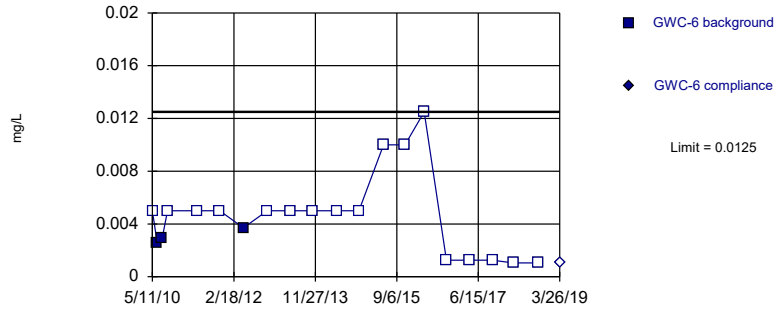


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

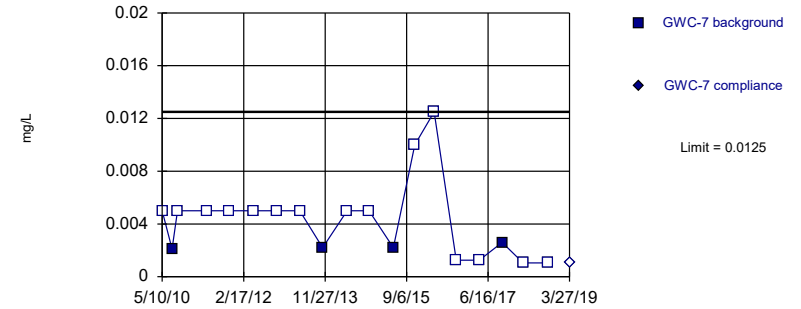


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

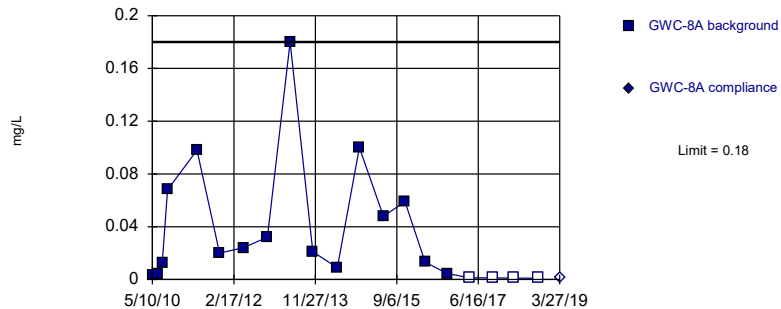


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

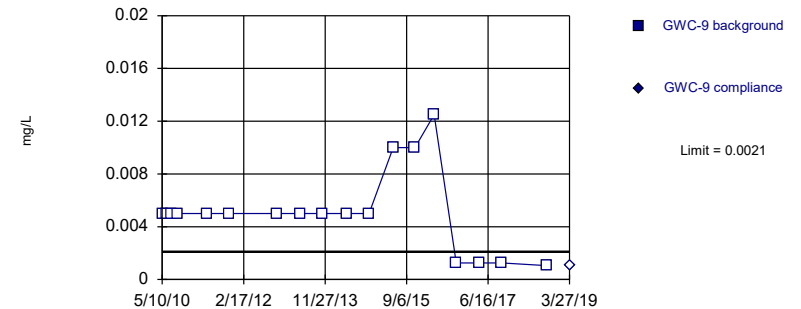


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 20 background values. 20% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



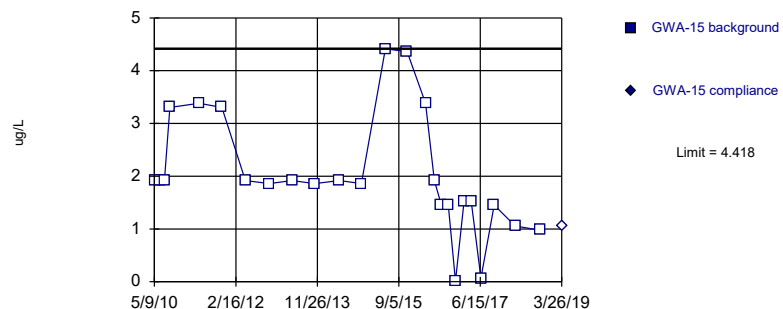
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Report alpha = 0.05263. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



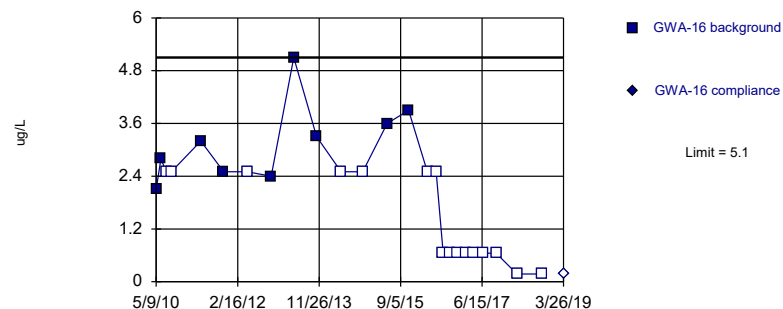
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



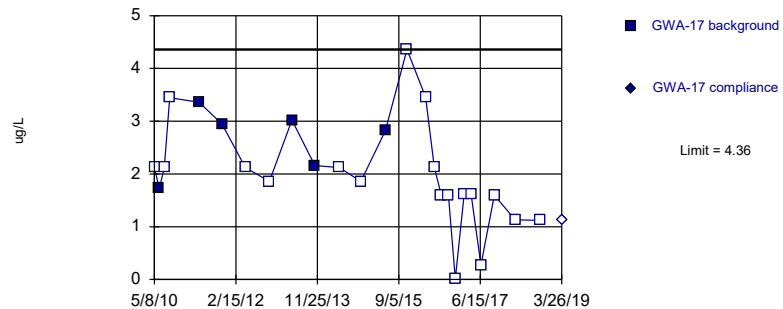
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



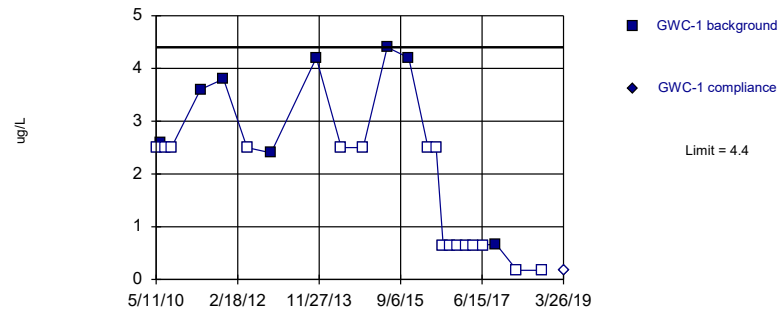
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 76% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



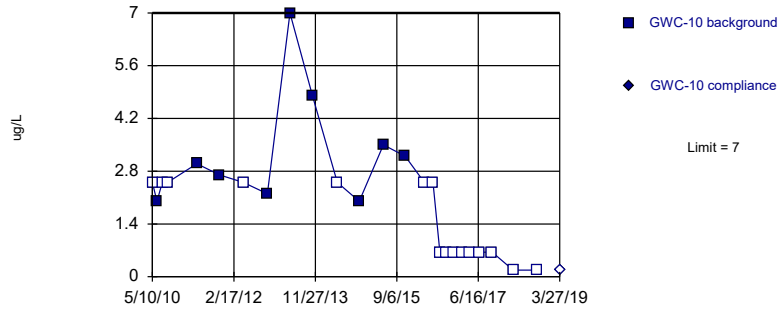
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 66.67% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



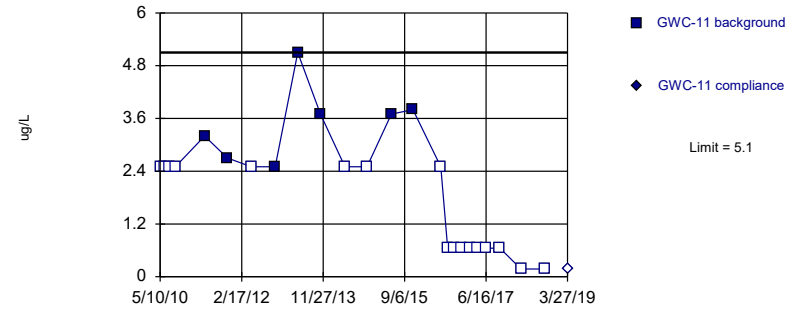
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



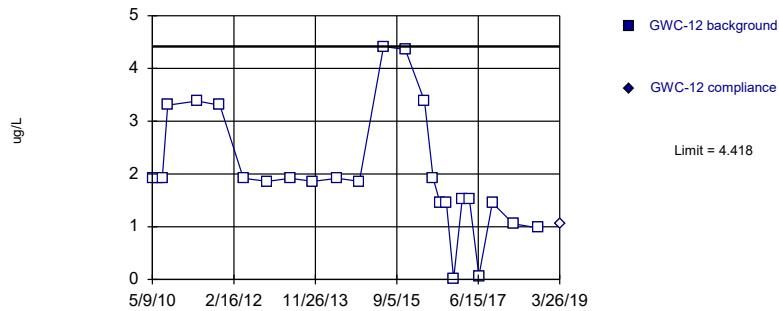
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



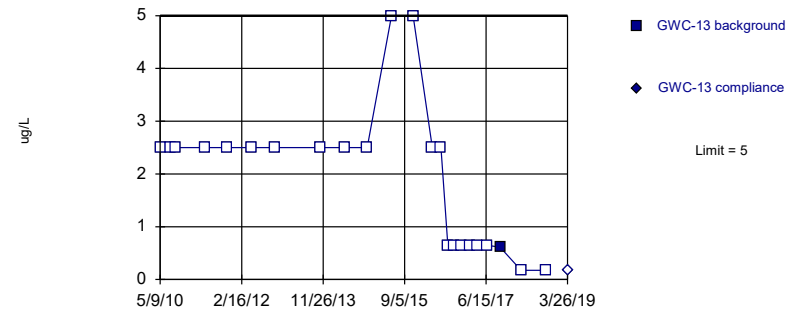
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

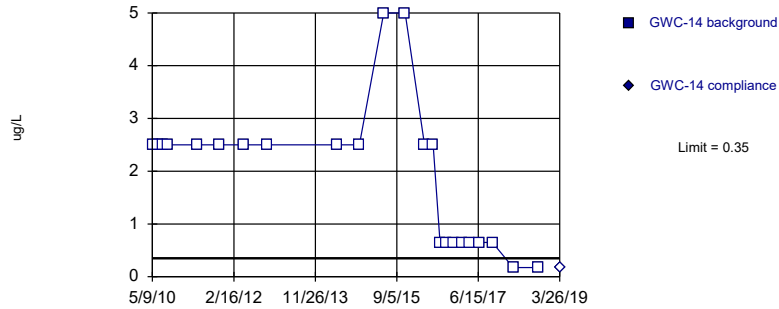


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

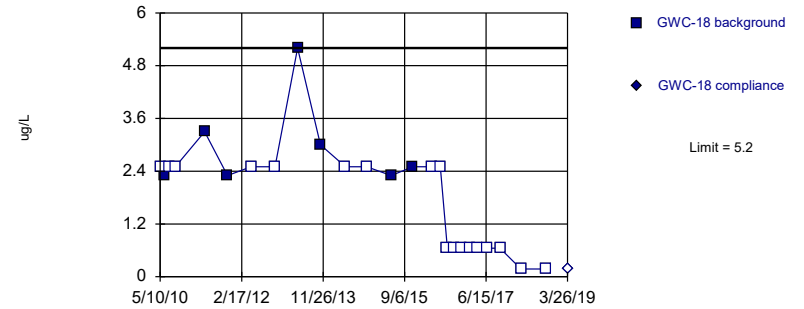


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

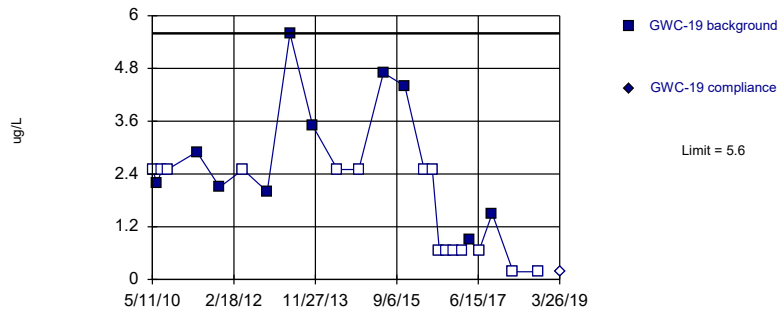


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

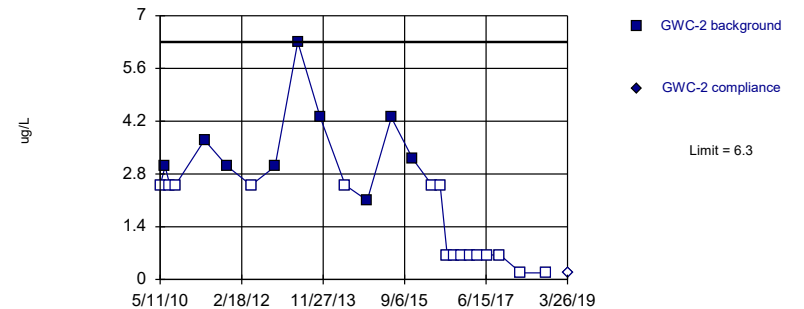


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 60% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

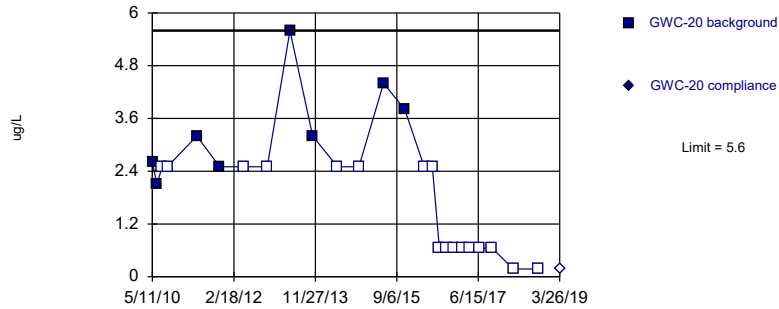


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

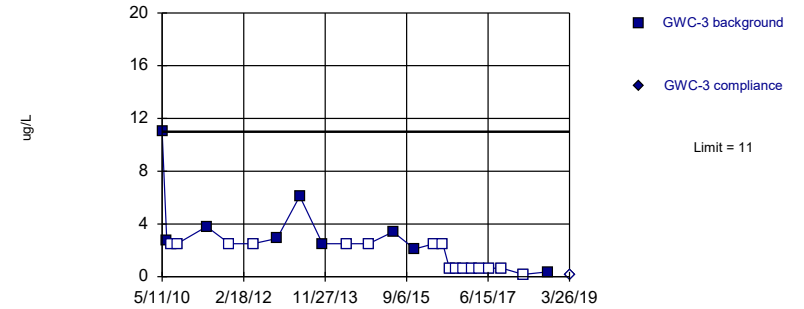


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

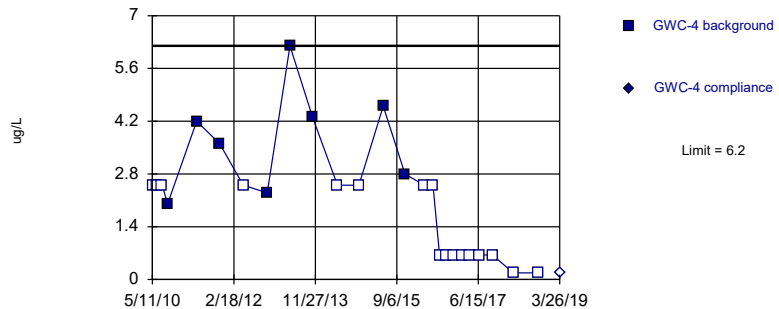


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

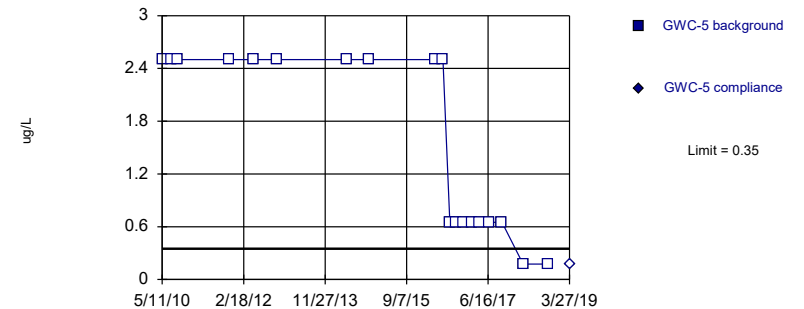


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



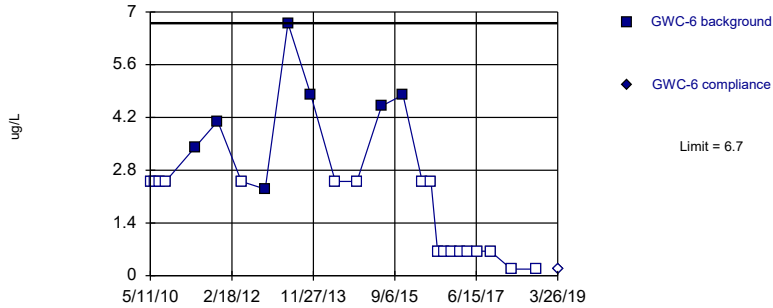
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

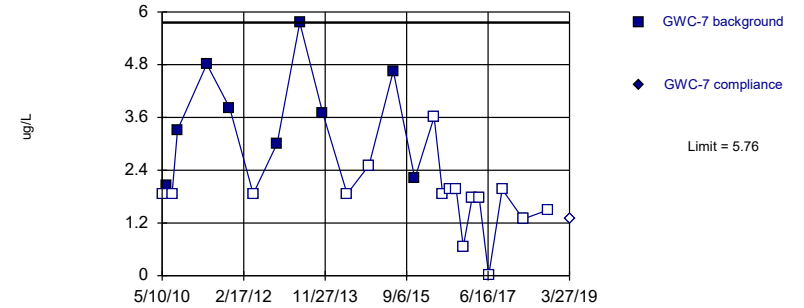


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

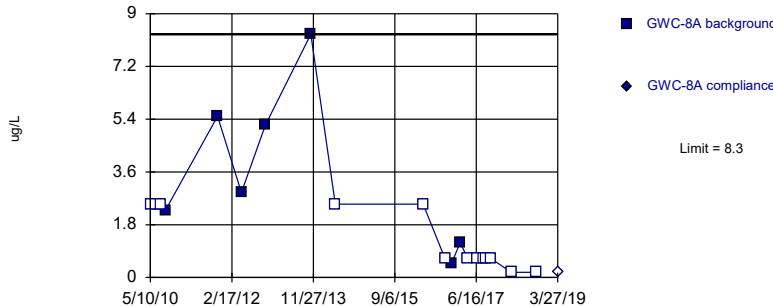


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

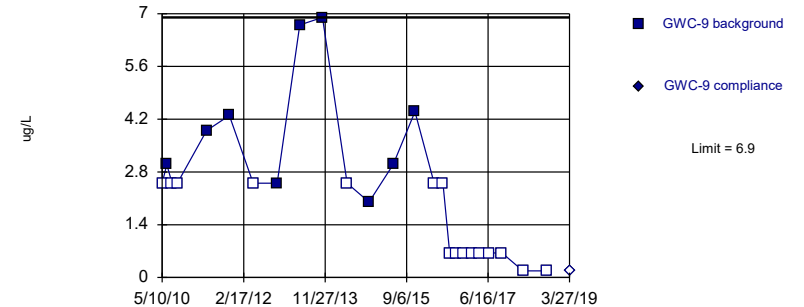


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

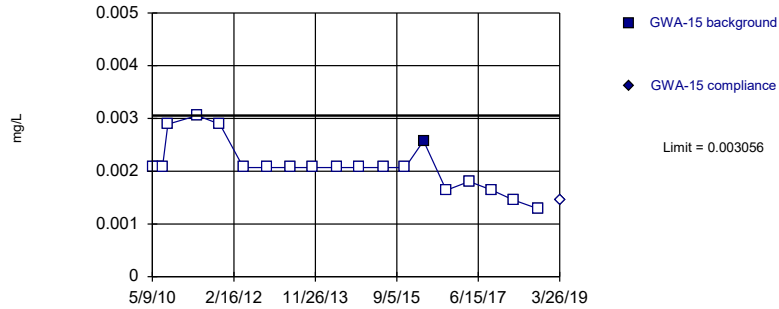


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

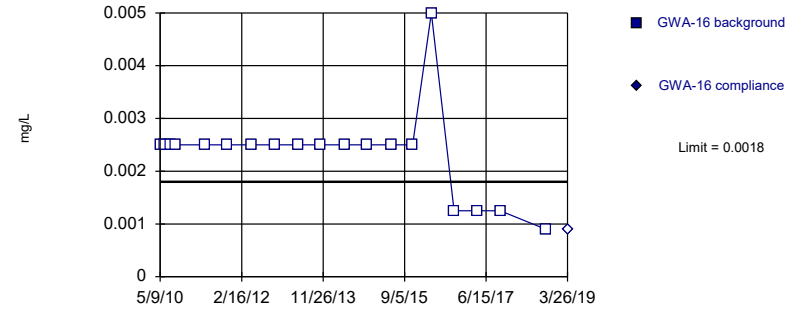


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

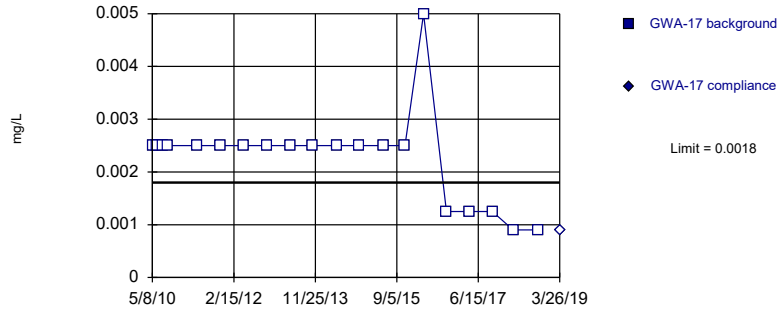


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

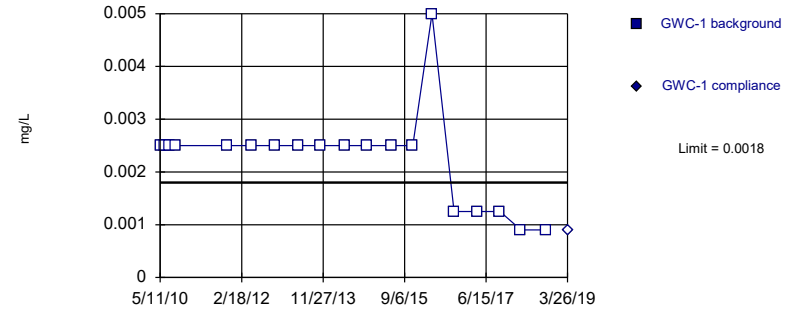


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

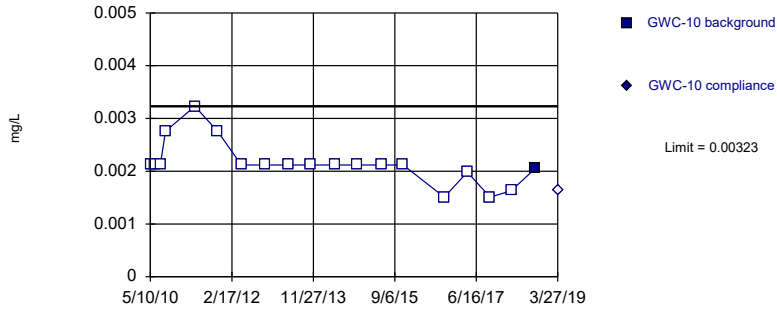


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

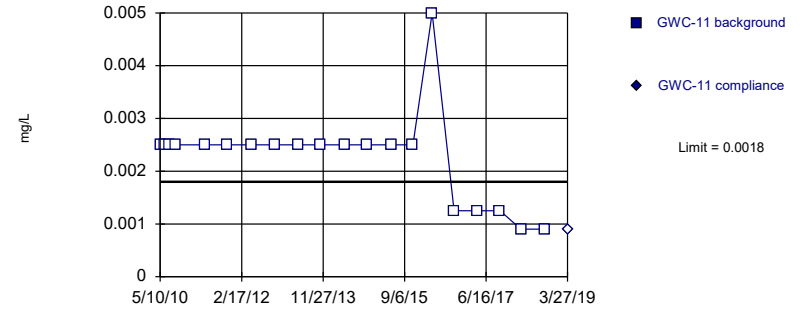


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

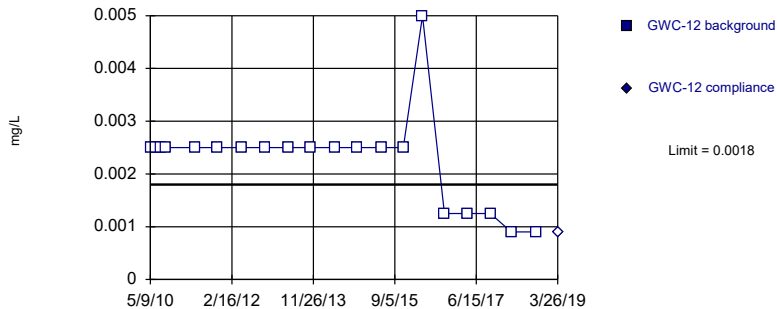


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

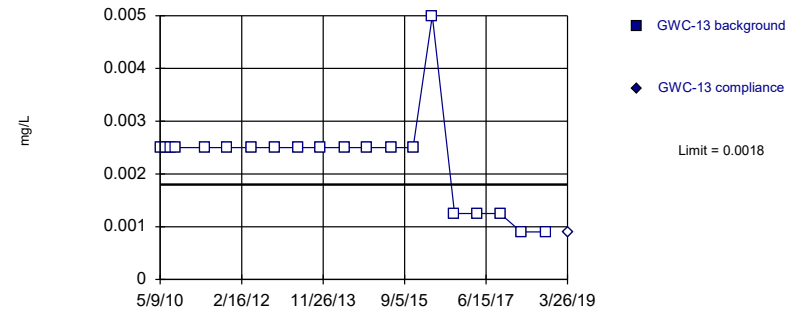


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



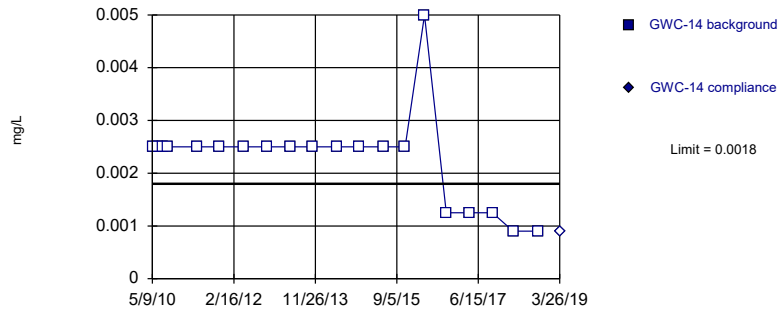
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



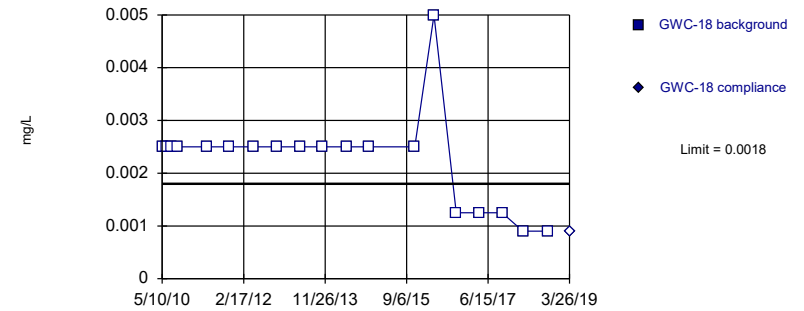
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



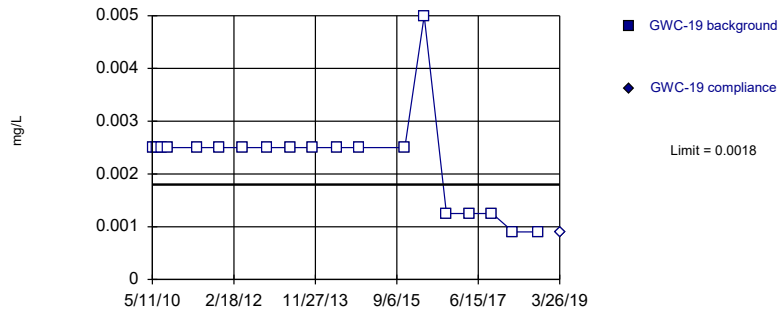
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



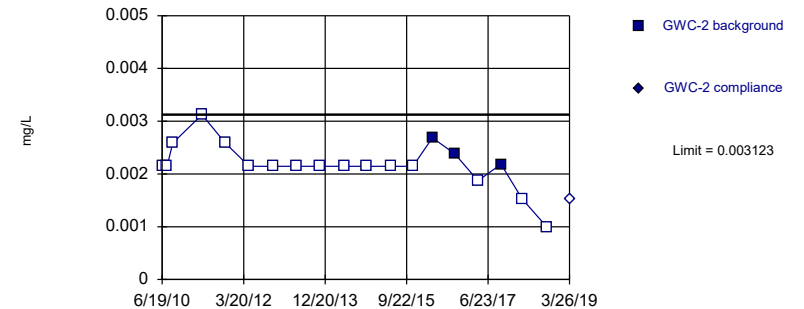
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

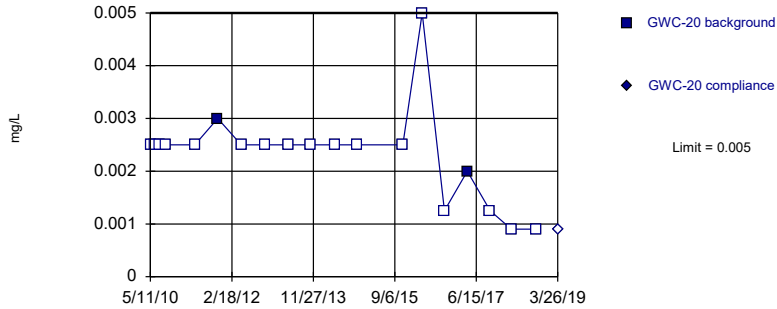


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

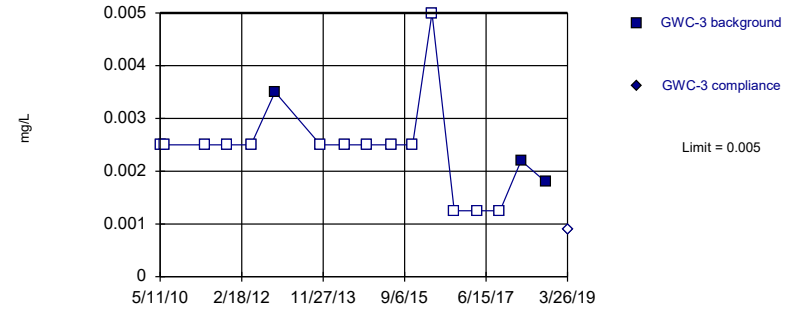


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

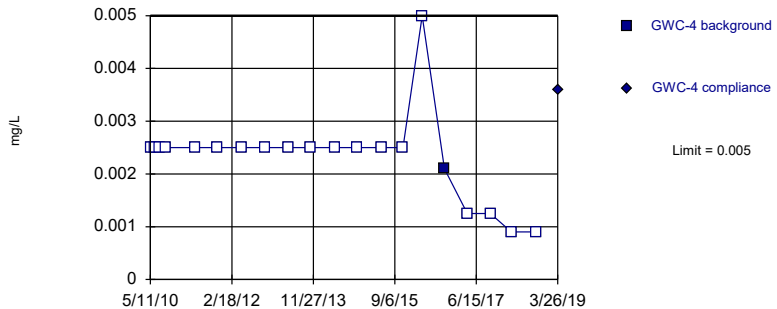


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

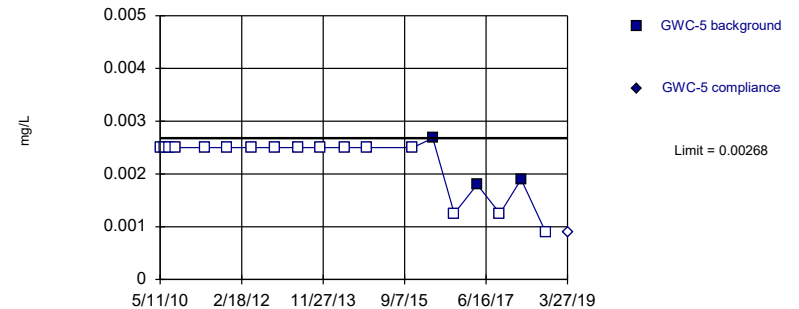


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

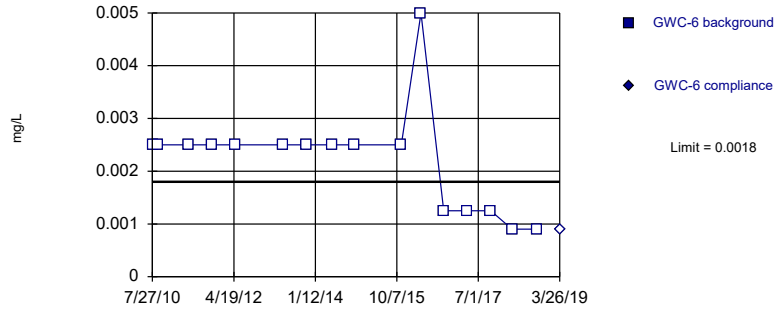


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

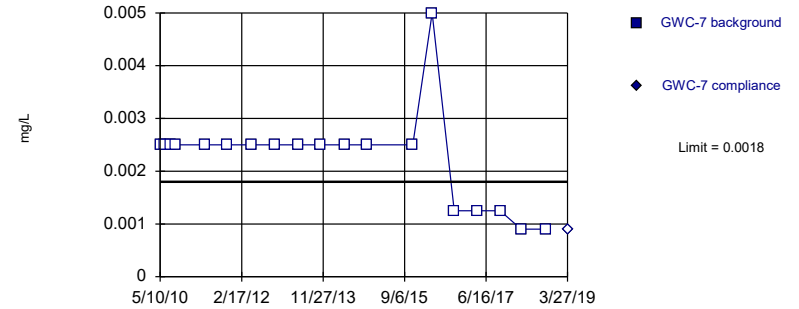


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Report alpha = 0.05882. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

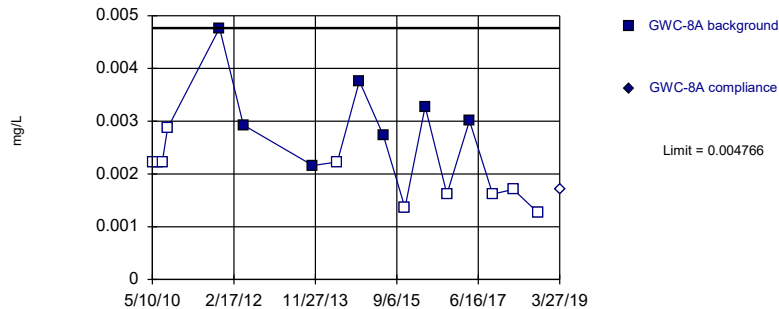


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

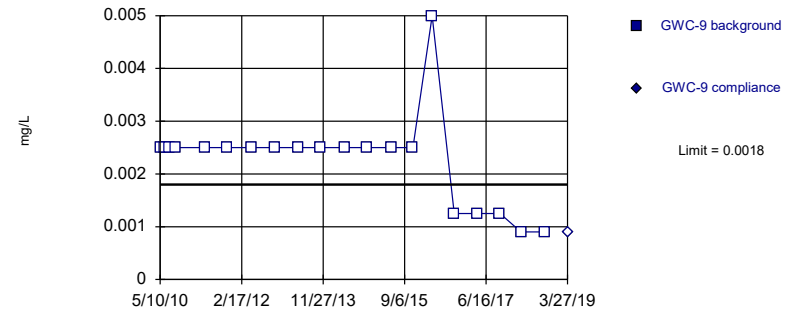


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Report alpha = 0.05556. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

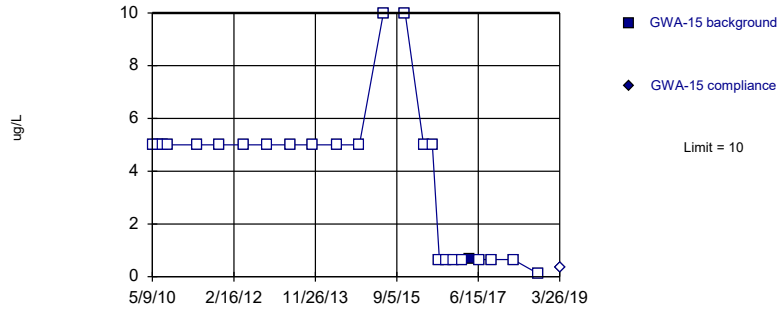


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

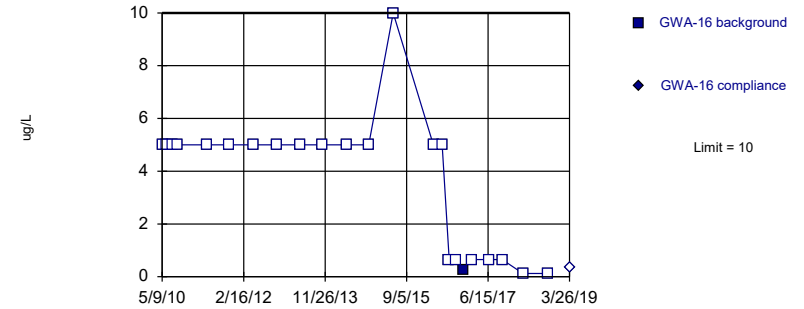


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

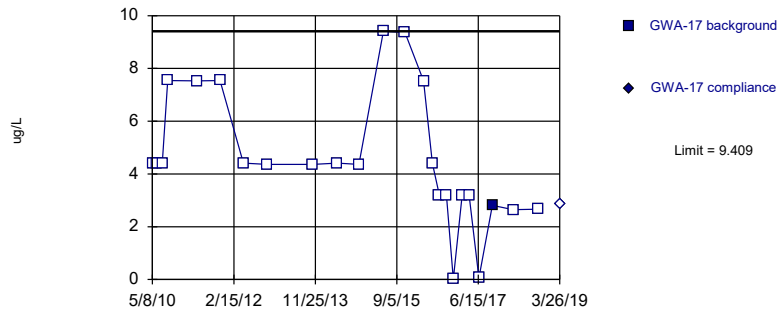


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

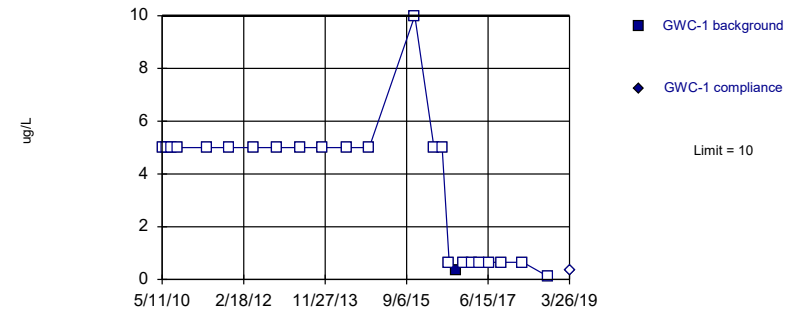


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

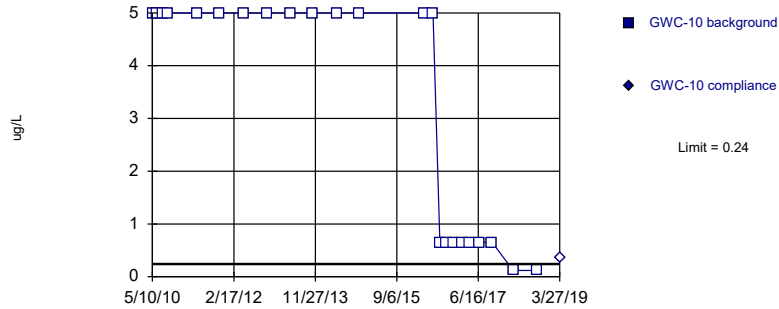


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

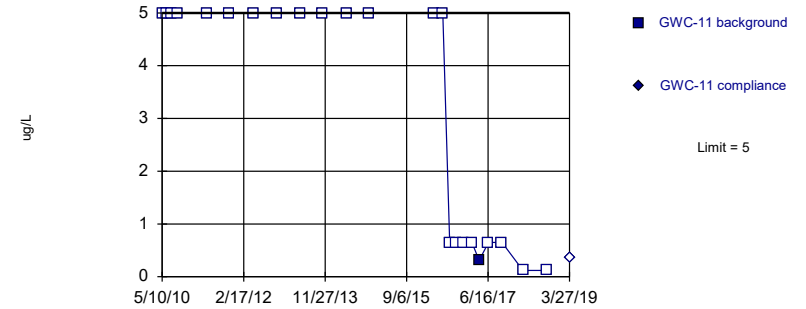


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

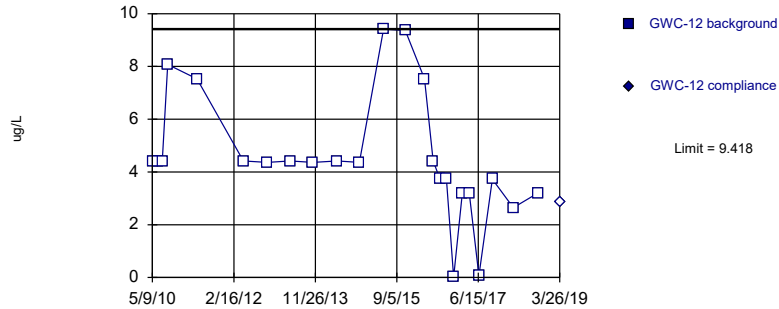


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

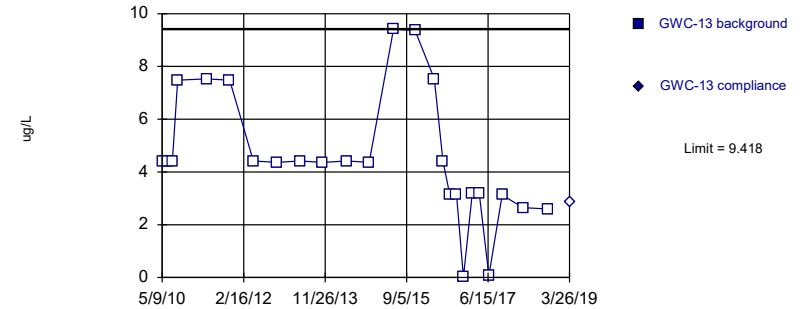


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



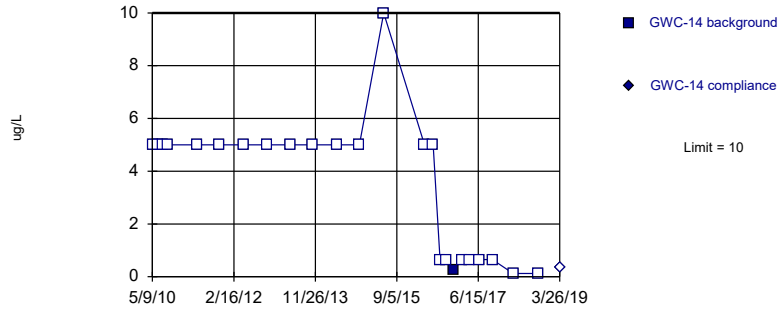
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

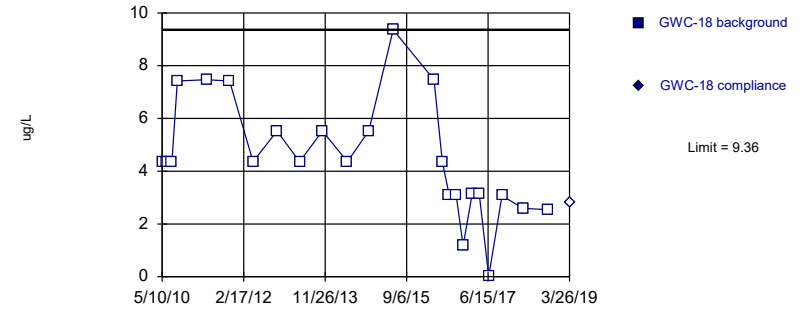


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

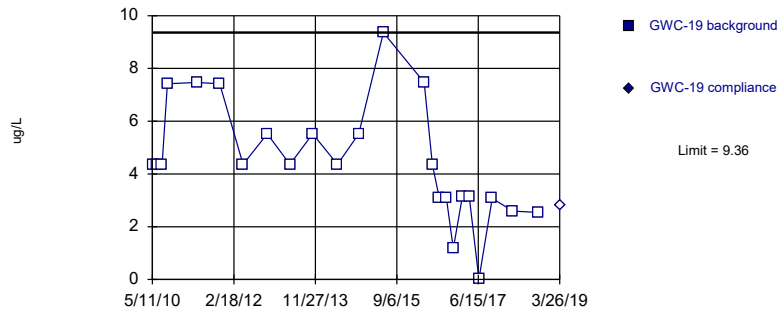


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

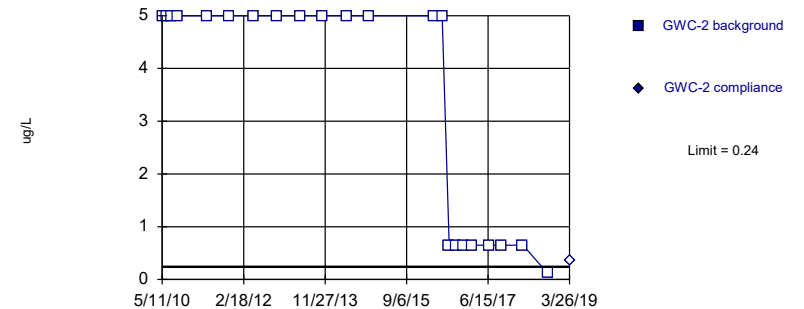


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

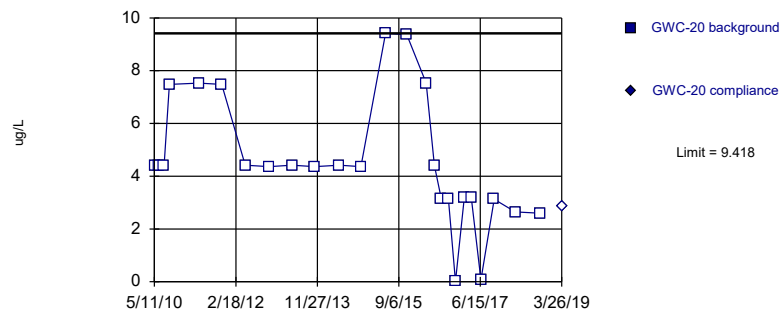


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Report alpha = 0.04348. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

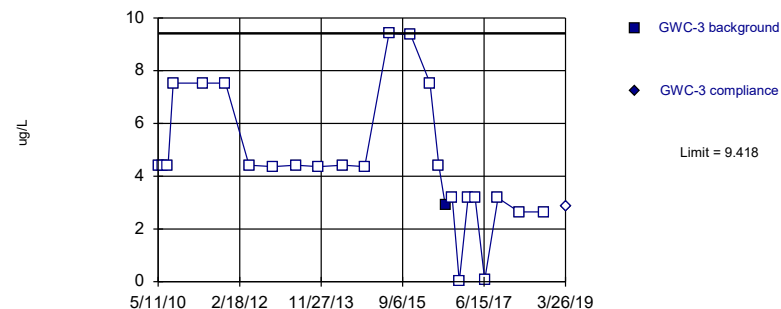


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

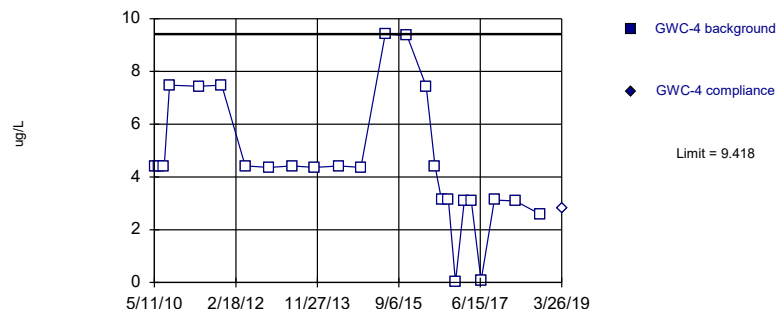


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

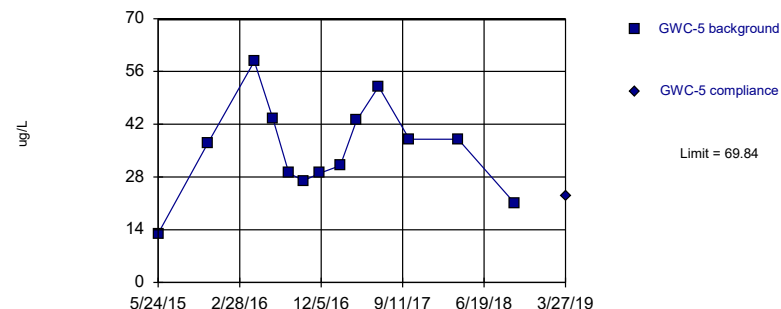


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

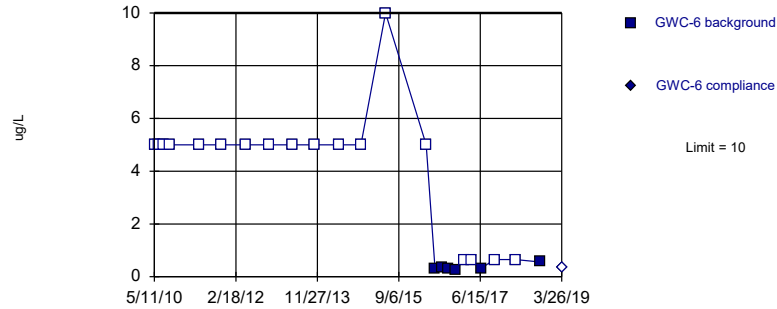


Background Data Summary: Mean=35.4, Std. Dev.=12.38, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9838, critical = 0.866. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

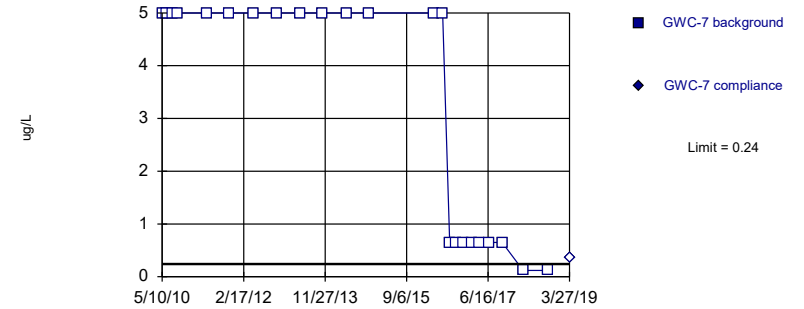


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

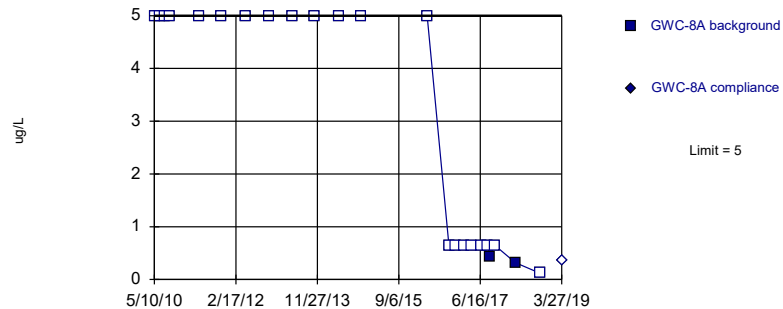


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

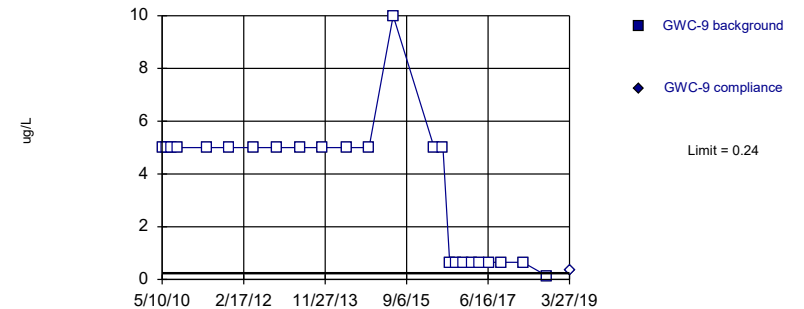


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

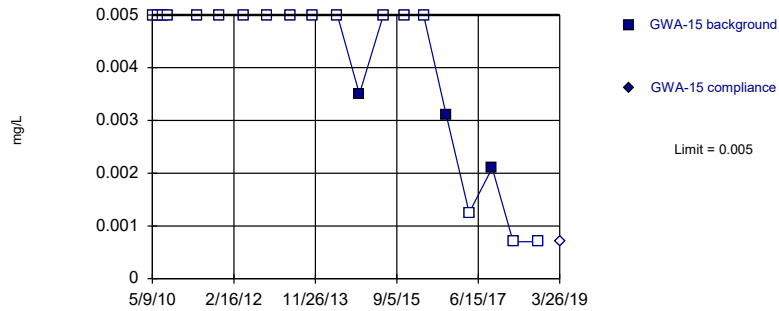


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

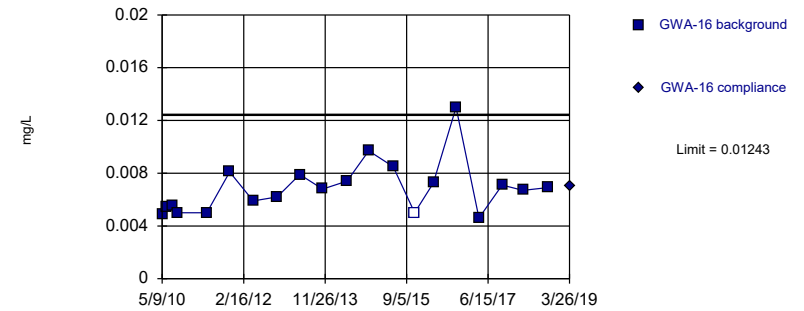


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

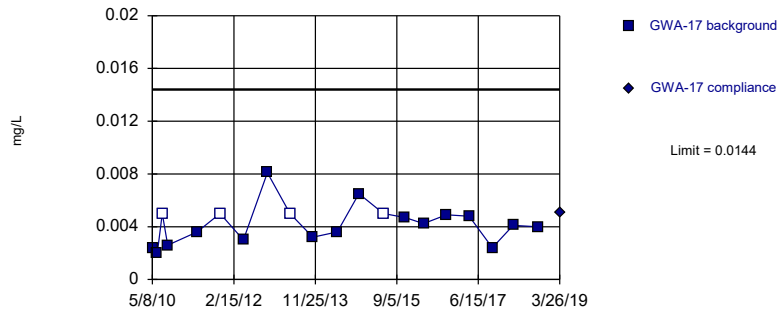


Background Data Summary (based on square root transformation): Mean=0.08198, Std. Dev.=0.01134, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9086, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

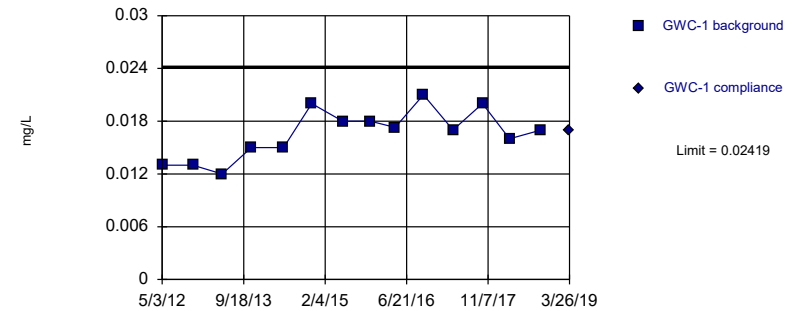


Background Data Summary (after Cohen's Adjustment): Mean=0.005526, Std. Dev.=0.00341, n=20, 20% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9311, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

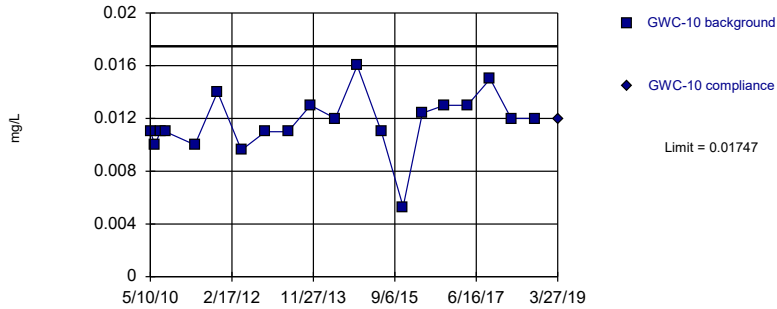


Background Data Summary: Mean=0.01659, Std. Dev.=0.00277, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9582, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

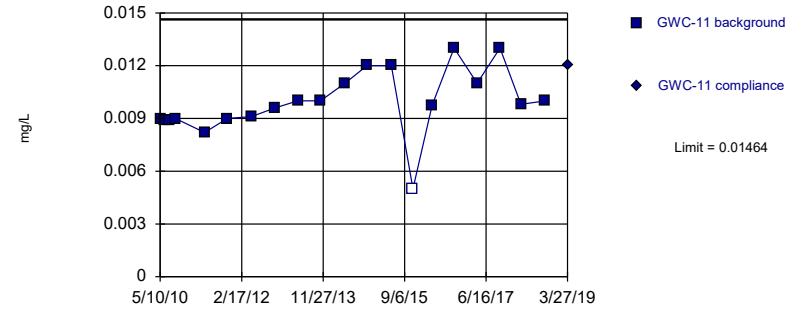


Background Data Summary: Mean=0.01167, Std. Dev.=0.002231, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9193, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

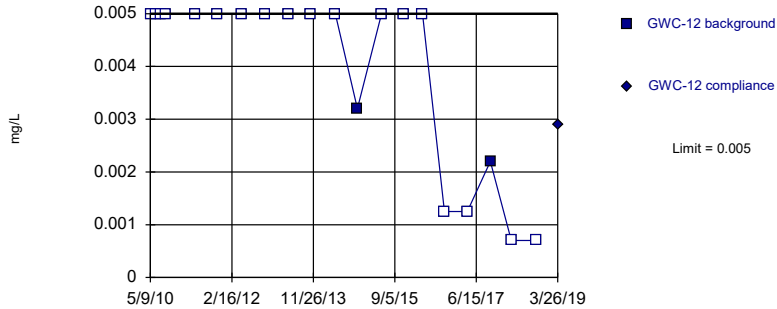


Background Data Summary: Mean=0.009913, Std. Dev.=0.001815, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9125, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

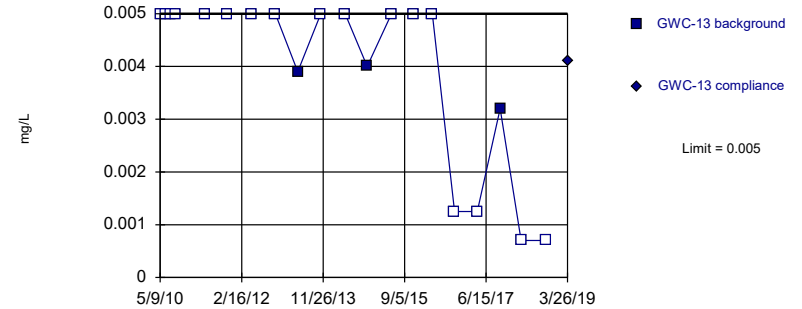


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

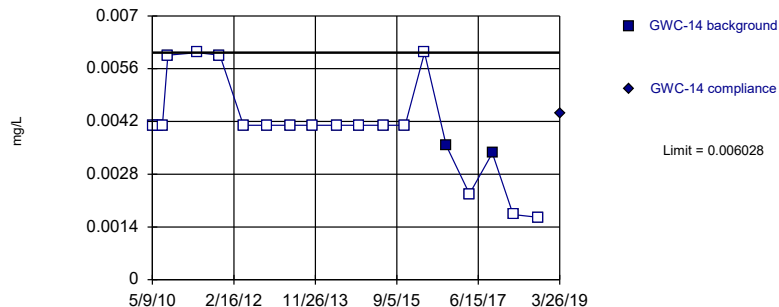


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

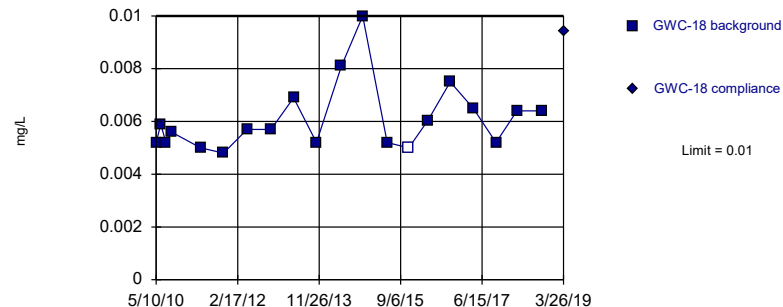


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Data were deseasonalized.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

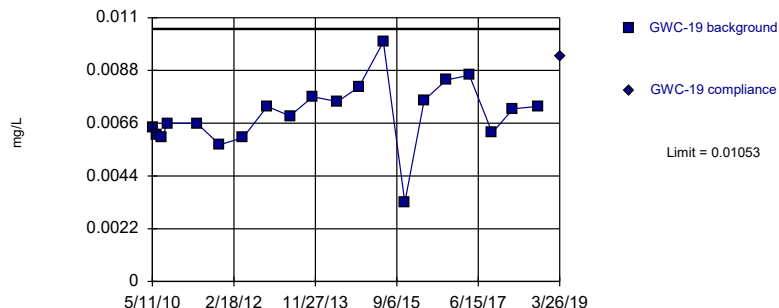


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 20 background values. 5% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

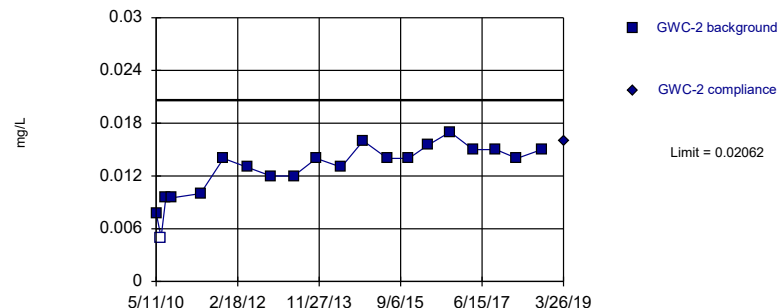


Background Data Summary: Mean=0.006973, Std. Dev.=0.001367, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9482, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric



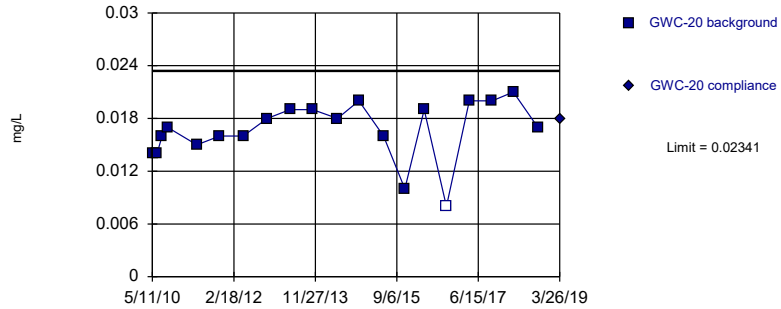
Background Data Summary: Mean=0.01277, Std. Dev.=0.003018, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9084, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



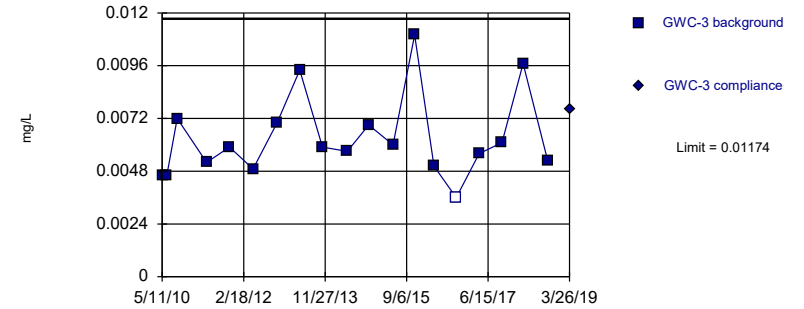
Background Data Summary (based on square transformation): Mean=0.0002878, Std. Dev.=0.0001, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9497, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



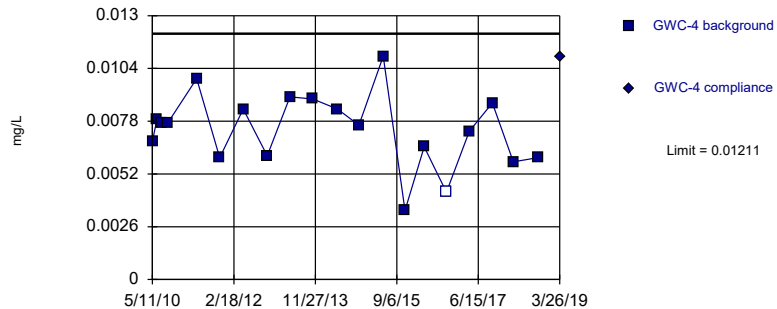
Background Data Summary (based on square root transformation): Mean=0.07857, Std. Dev.=0.01137, n=19, 5.263% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9169, critical = 0.901. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



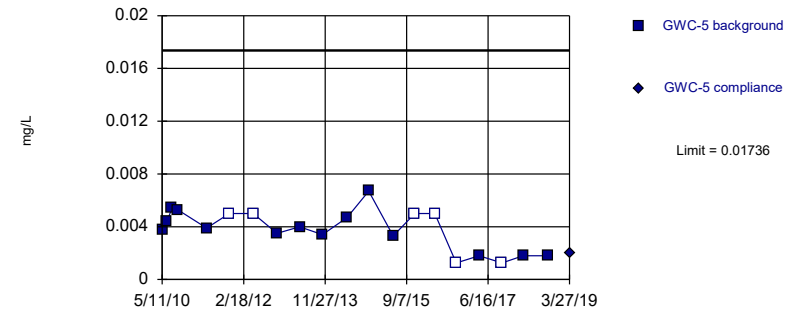
Background Data Summary: Mean=0.007372, Std. Dev.=0.001822, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9819, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



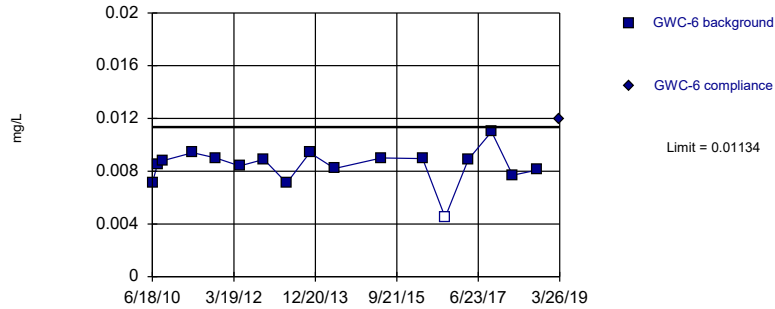
Background Data Summary (after Cohen's Adjustment): Mean=0.006392, Std. Dev.=0.004215, n=20, 30% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9296, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric



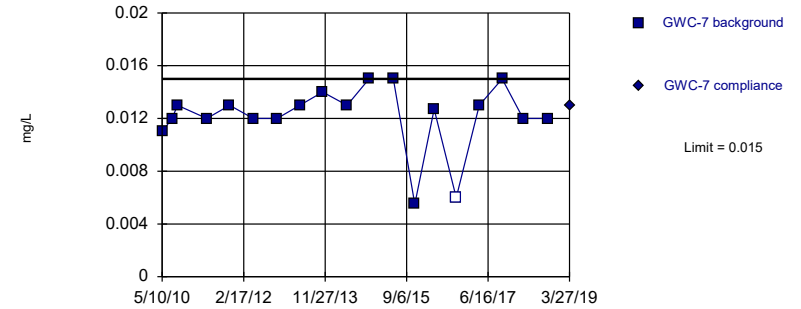
Background Data Summary (based on square transformation): Mean=0.00007246, Std. Dev.=0.00002112, n=17, 5.882% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9219, critical = 0.892. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



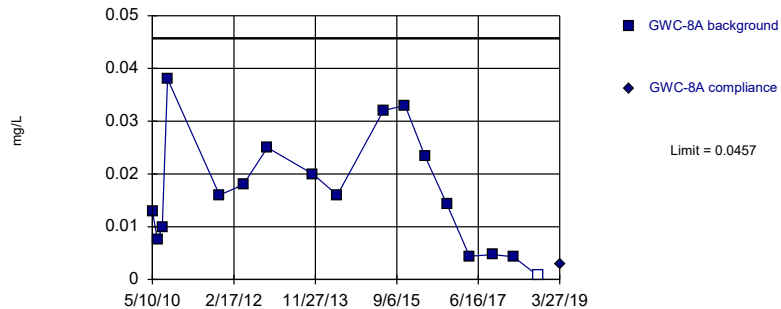
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values. 5.263% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



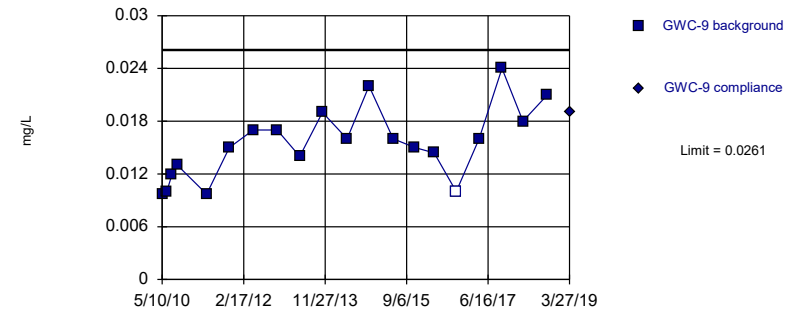
Background Data Summary: Mean=0.01648, Std. Dev.=0.01099, n=17, 5.882% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9527, critical = 0.892. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



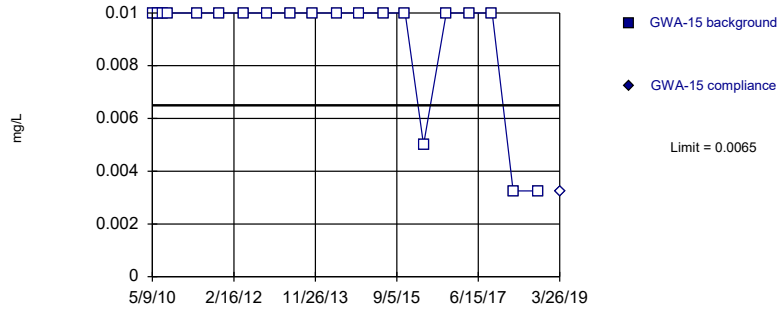
Background Data Summary: Mean=0.01544, Std. Dev.=0.004095, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.954, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

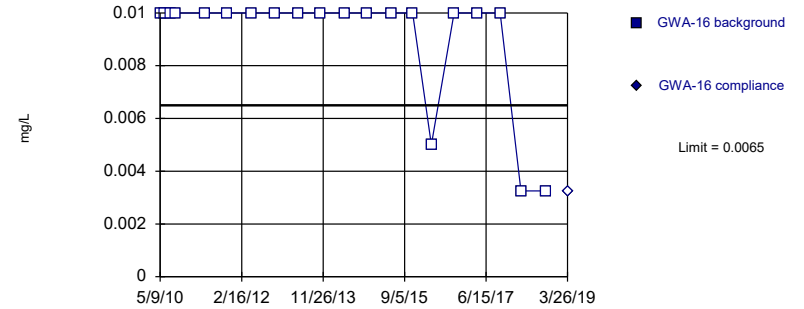


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

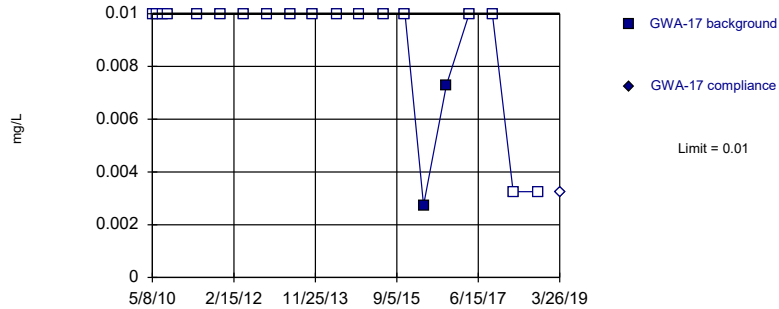


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

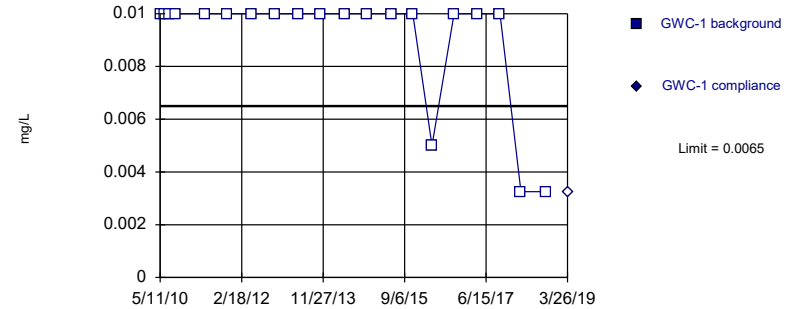


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



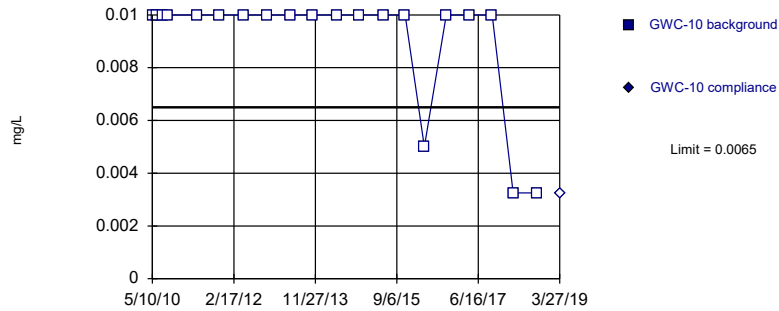
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



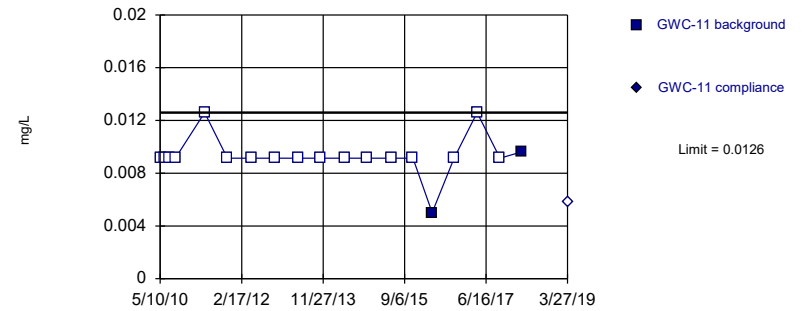
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



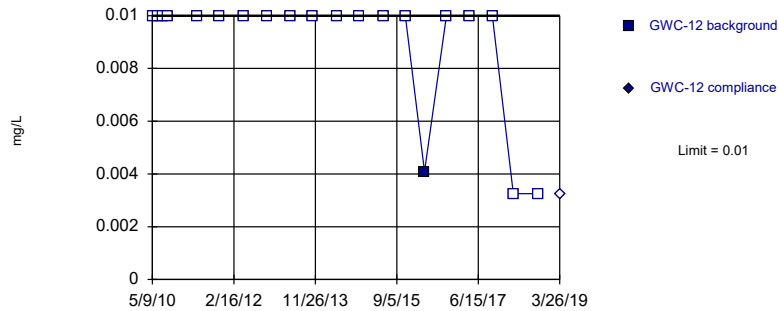
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



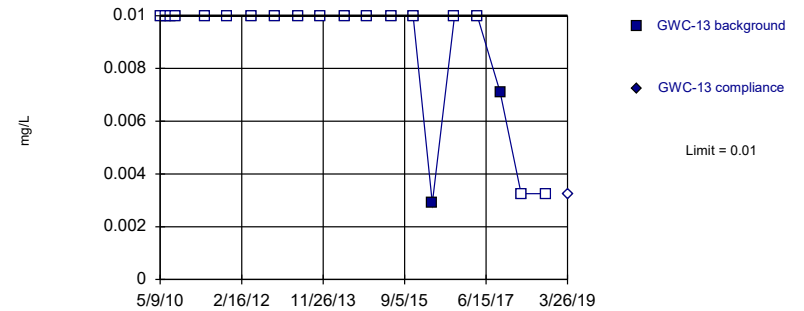
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



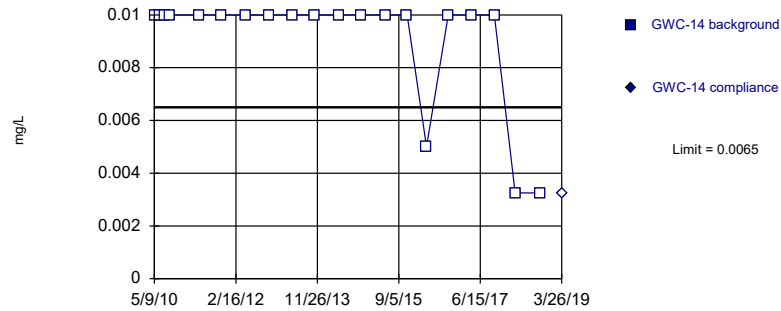
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



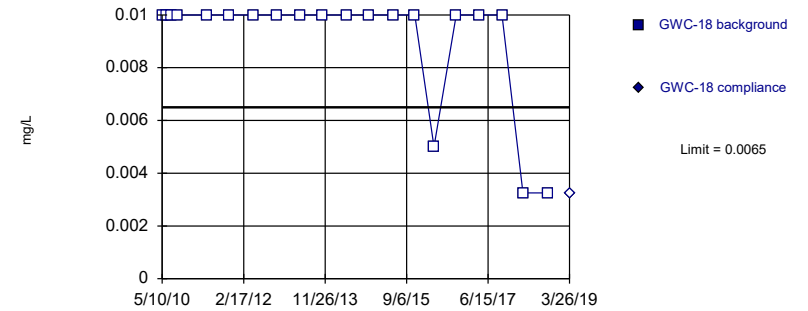
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



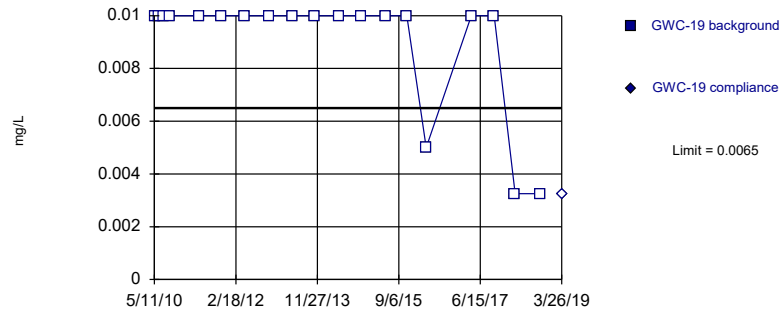
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



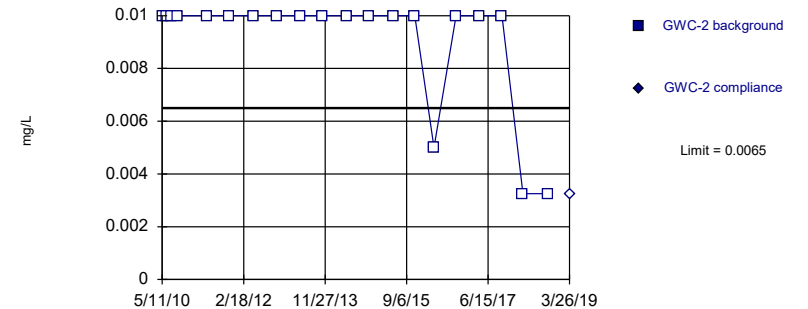
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

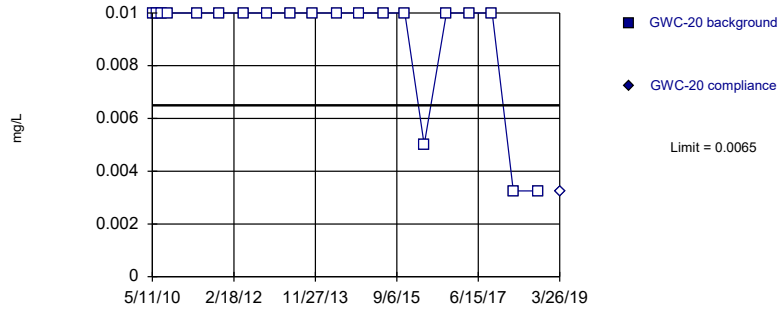


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

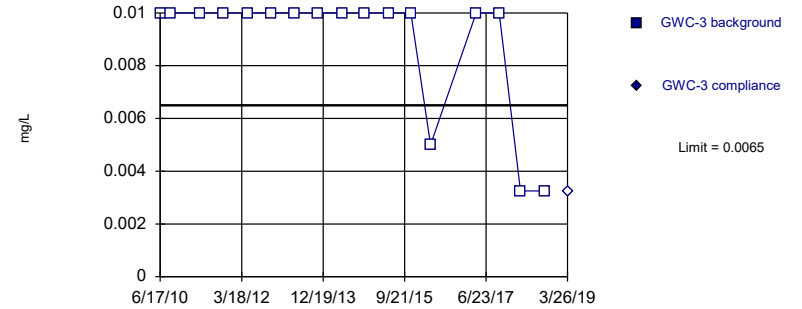


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

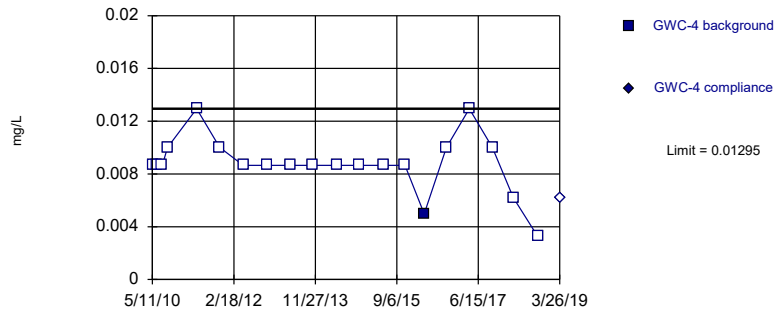


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

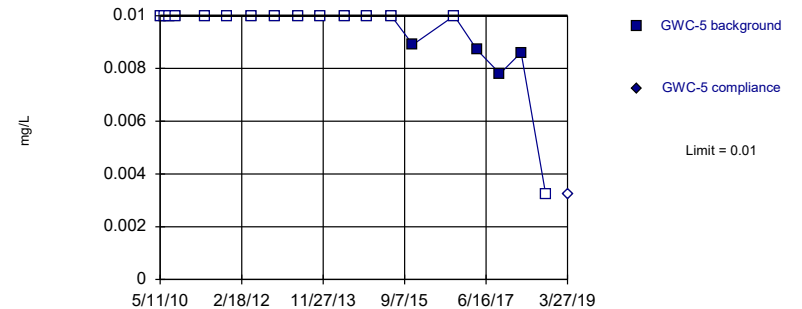


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

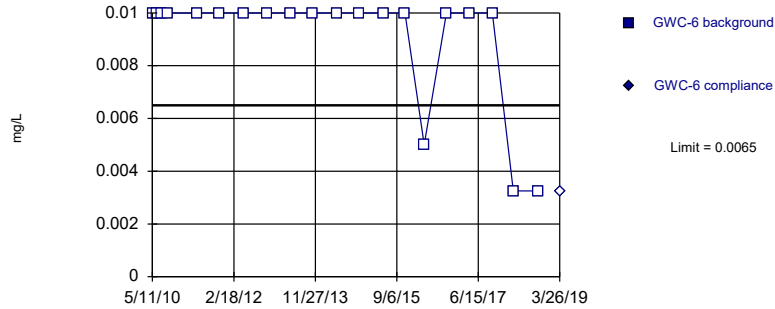


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

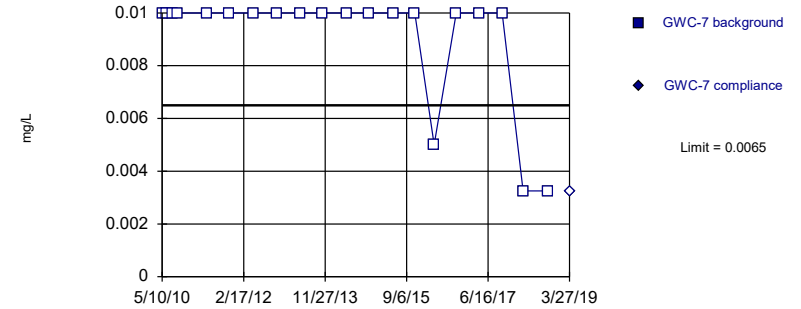


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

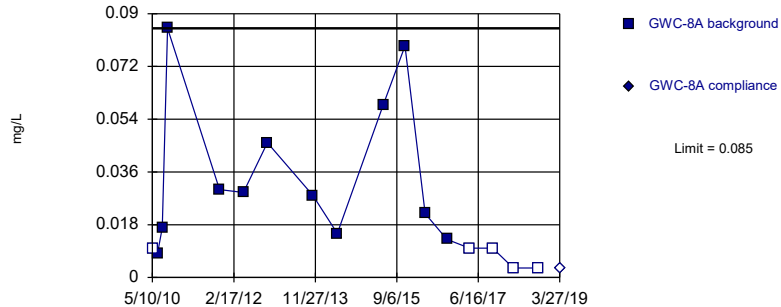


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

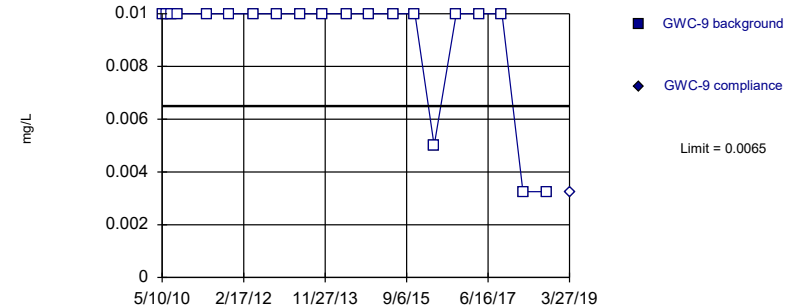


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 17 background values. 29.41% NDs. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

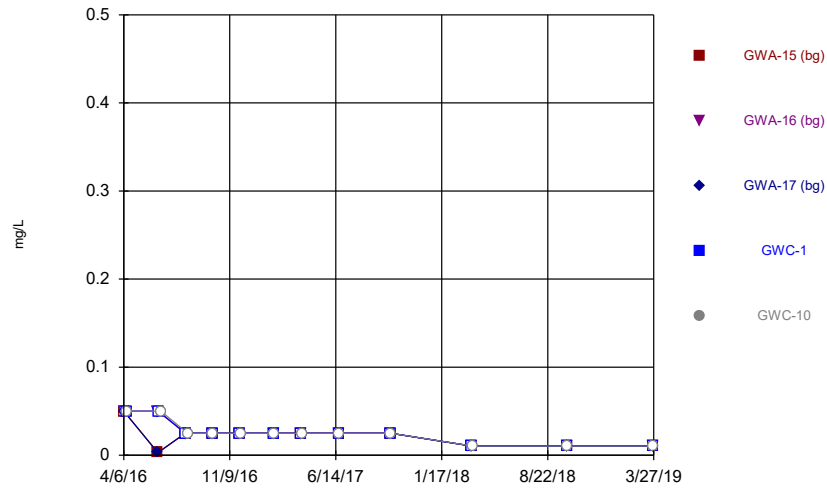
Prediction Limit  
Intrawell Non-parametric



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. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

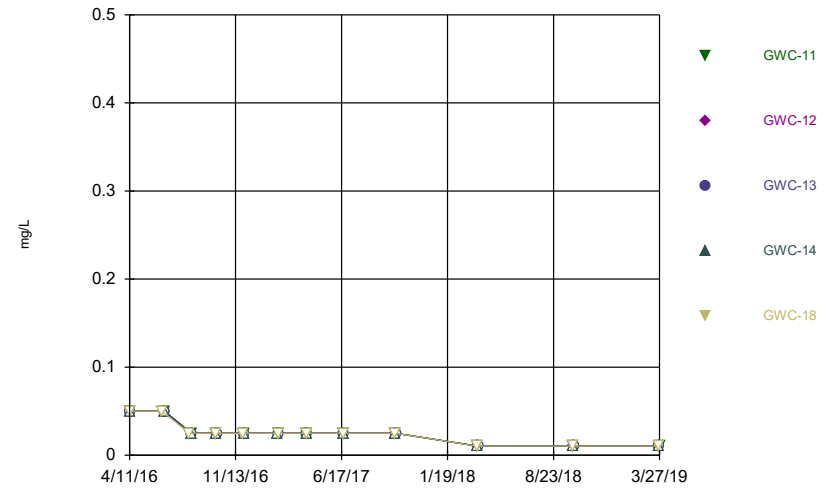
Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



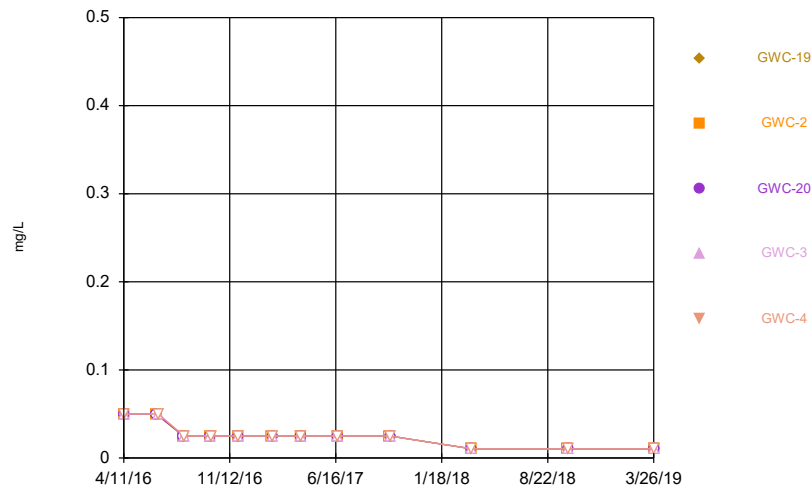
Constituent: Boron Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



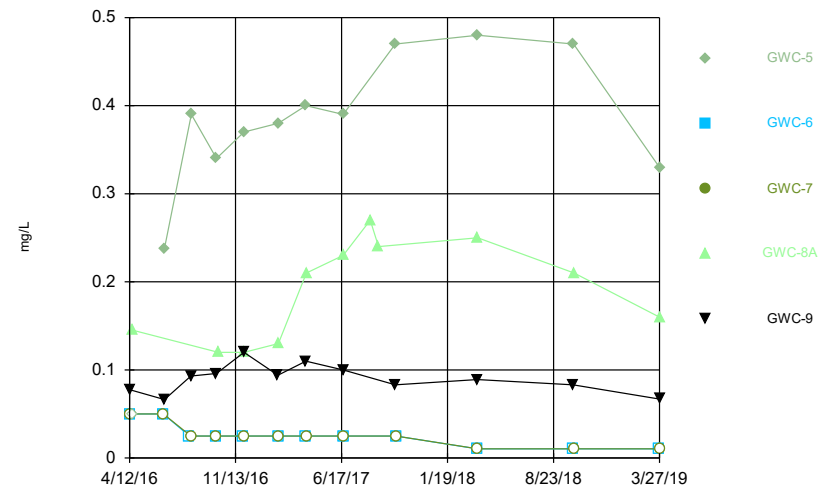
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



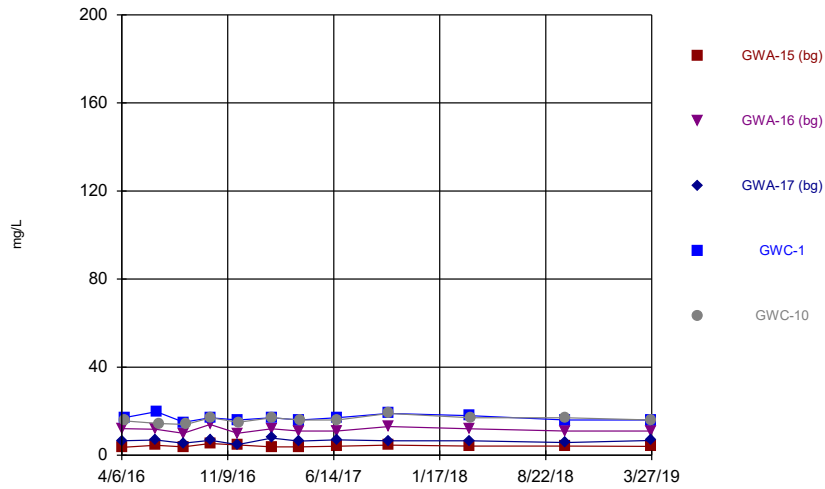
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



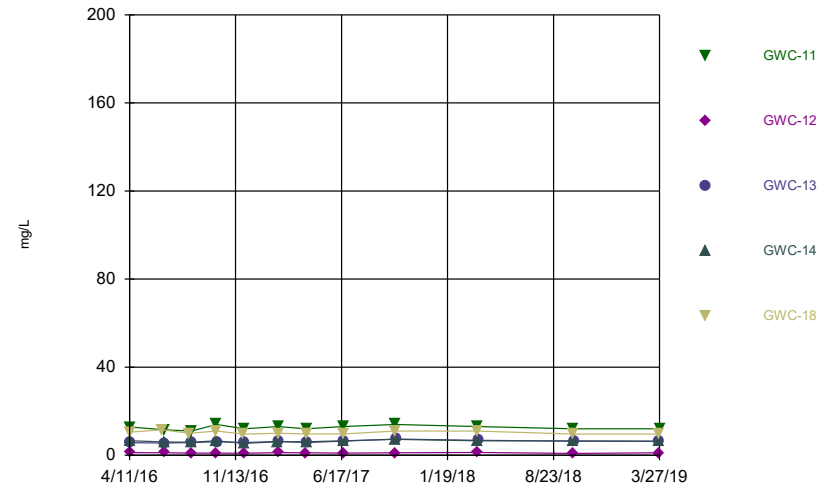
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



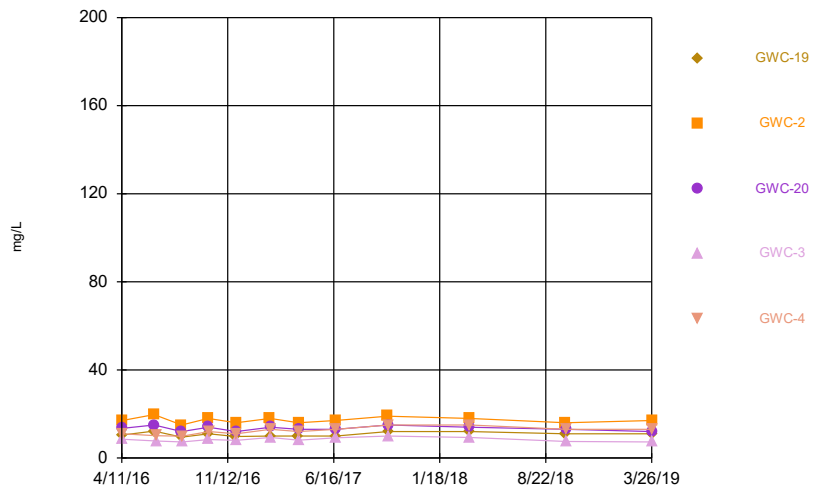
Constituent: Calcium Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



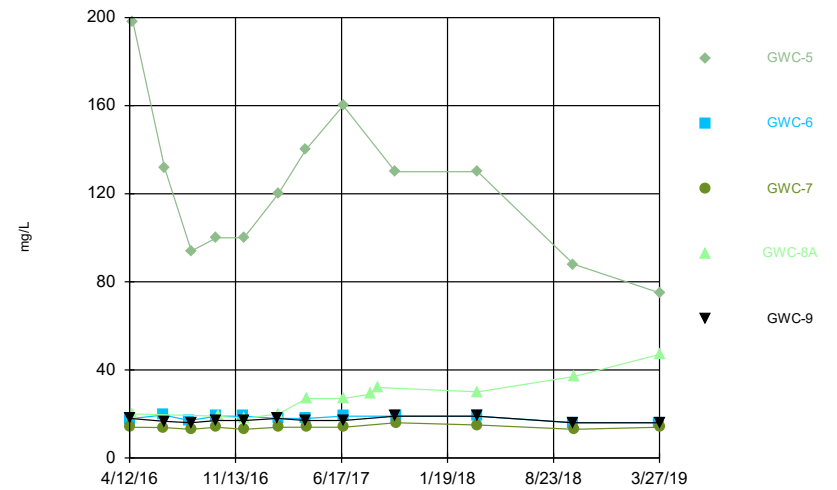
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



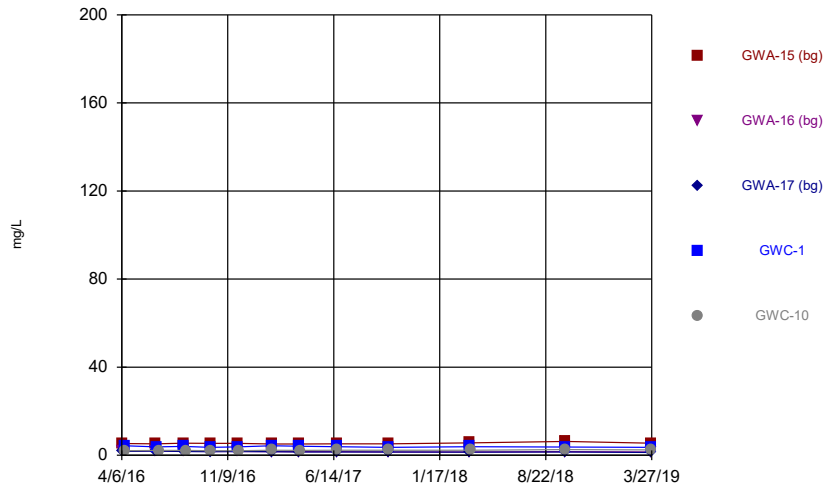
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



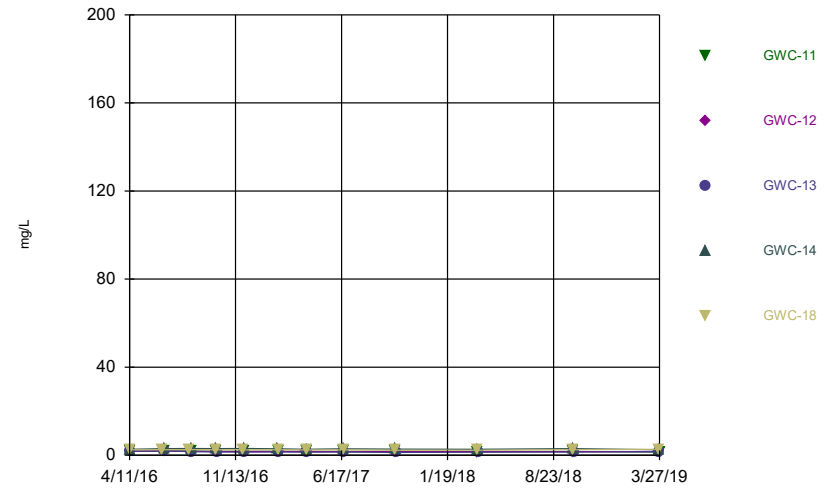
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



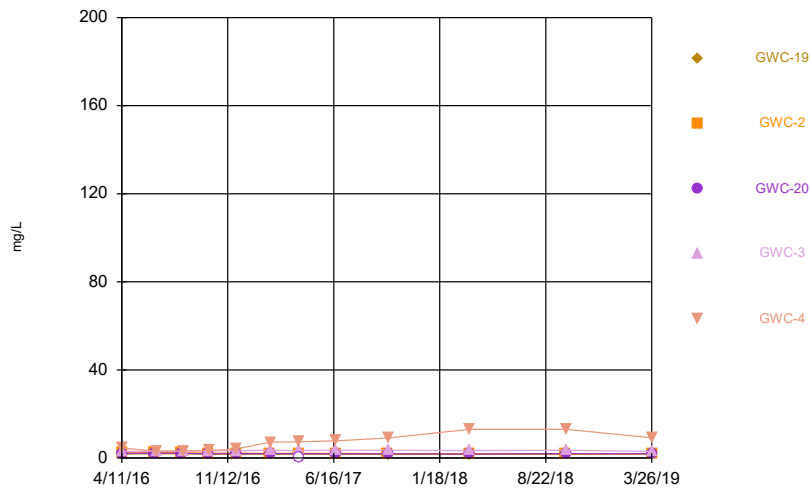
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



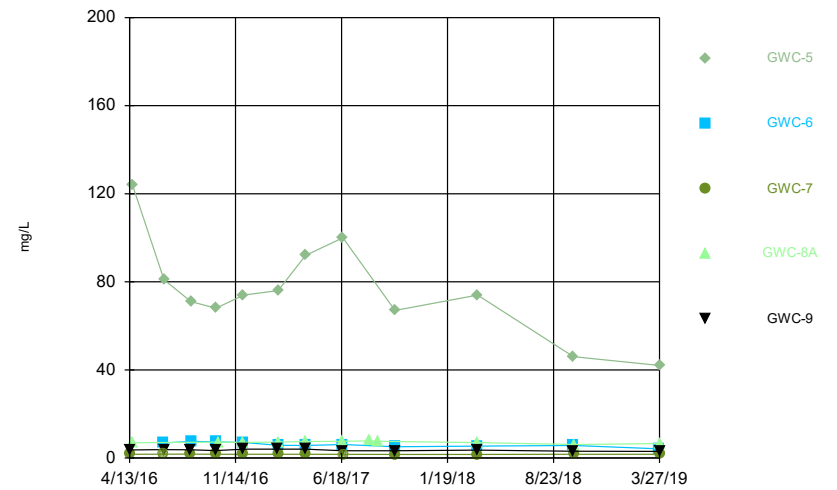
Constituent: Chloride Analysis Run 8/15/2019 12:28 PM View: Cell 1 AppIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



Constituent: Chloride Analysis Run 8/15/2019 12:28 PM View: Cell 1 AppIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

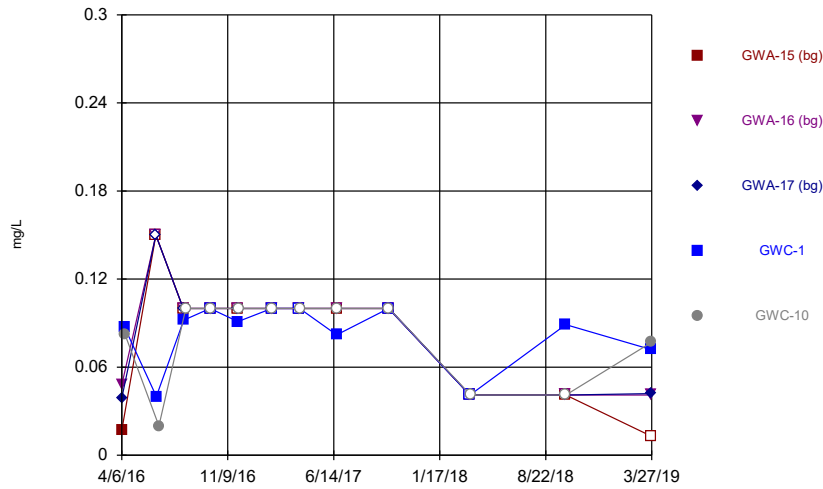
Time Series



Constituent: Chloride Analysis Run 8/15/2019 12:28 PM View: Cell 1 AppIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

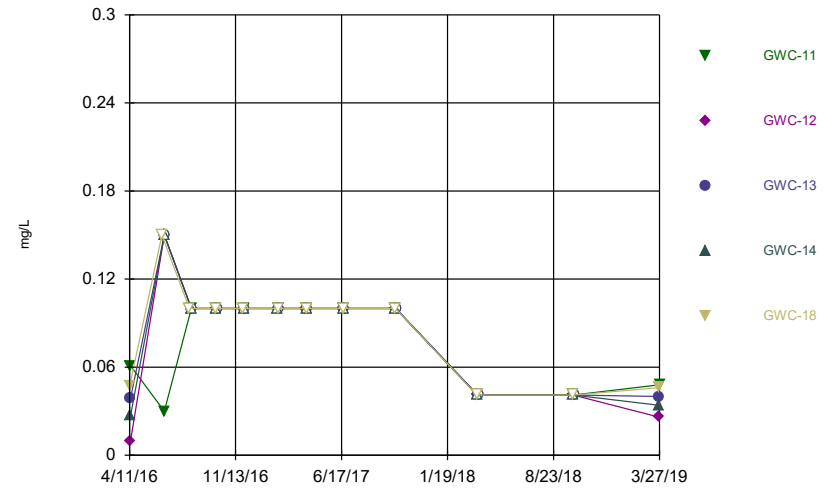


Time Series



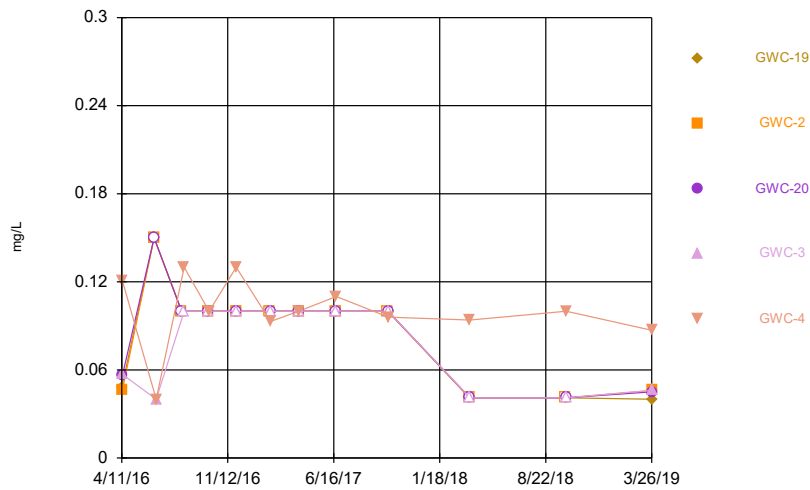
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



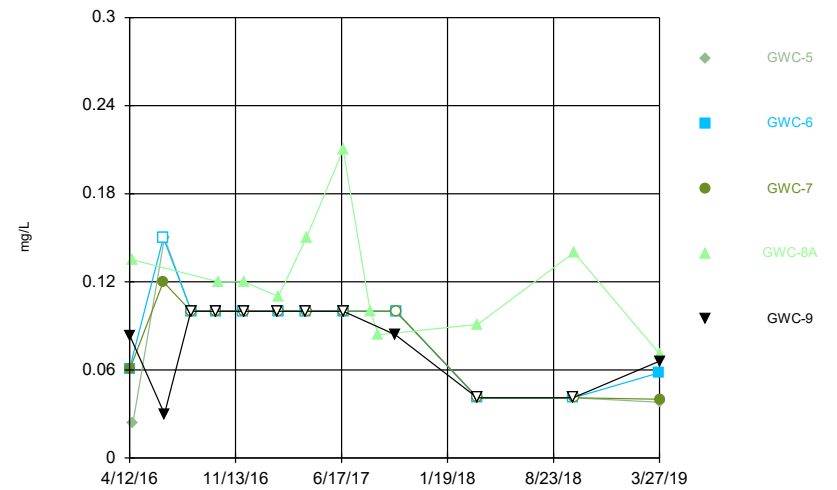
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



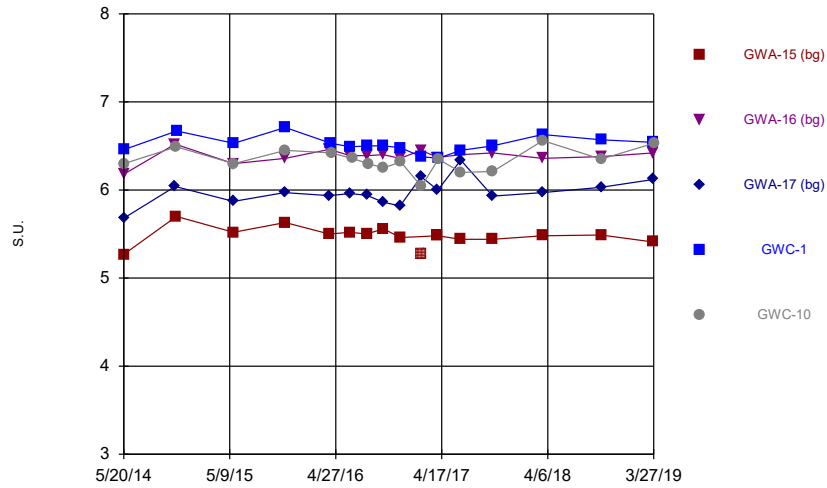
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



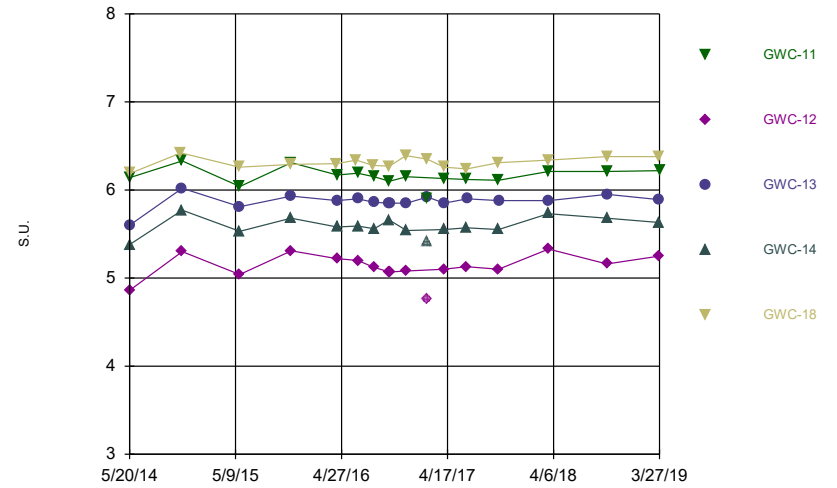
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Time Series



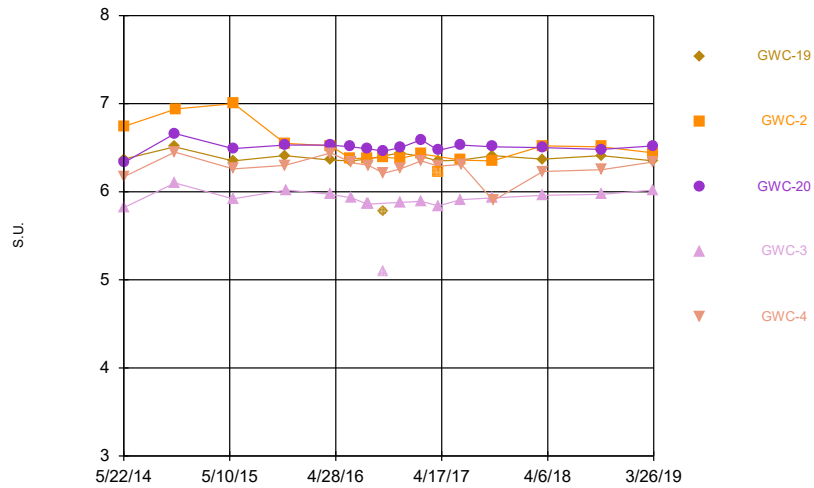
Constituent: pH Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



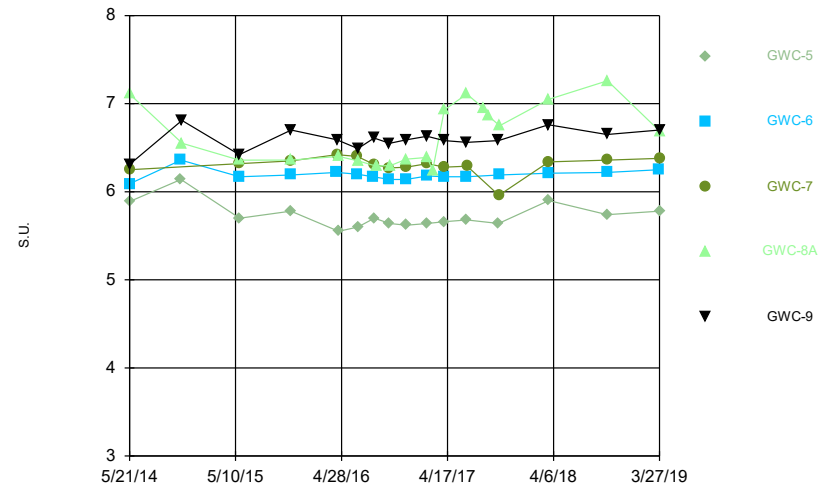
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



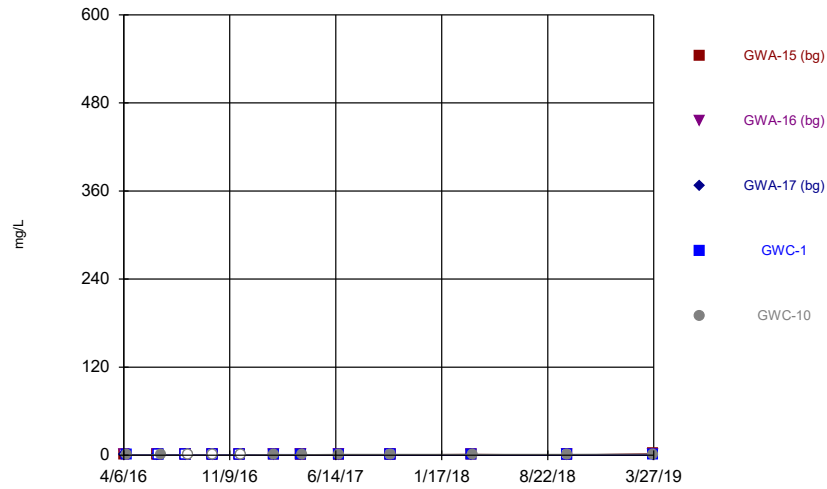
Constituent: pH Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



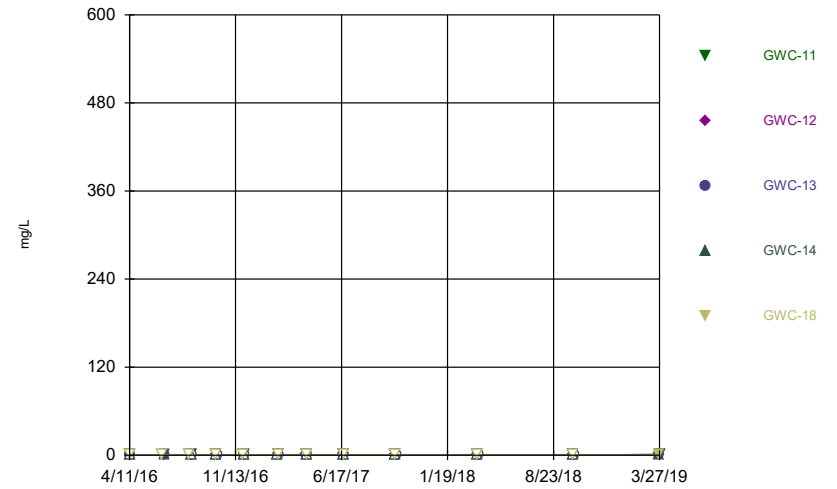
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



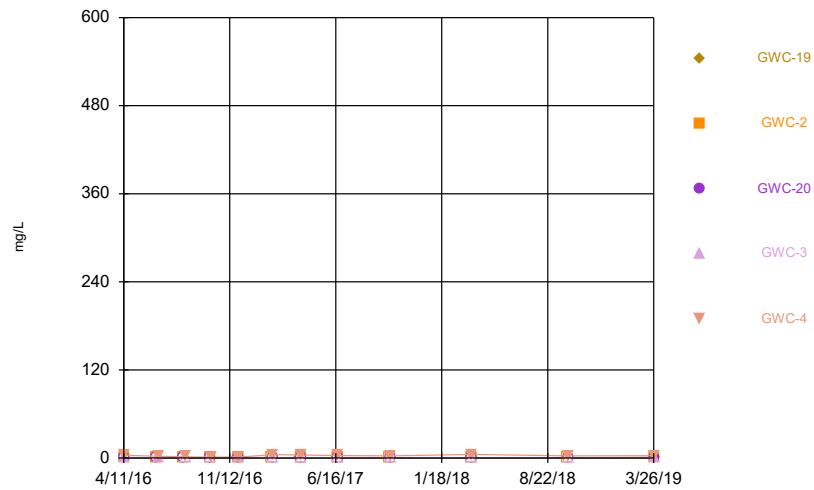
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



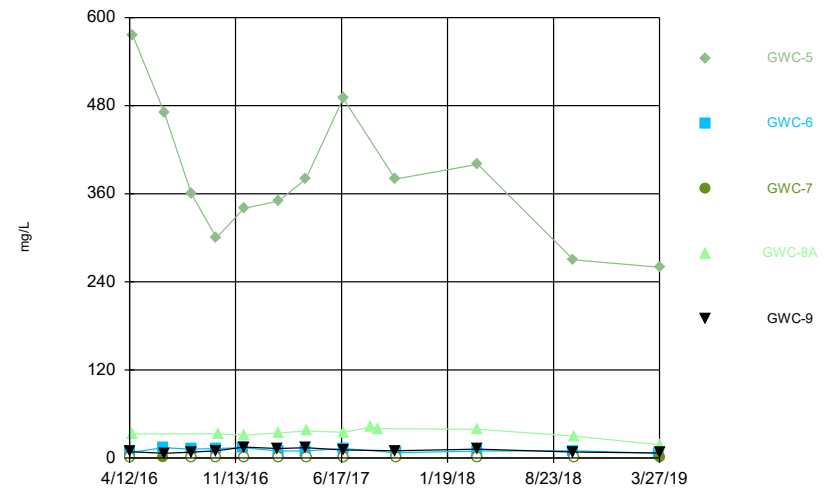
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



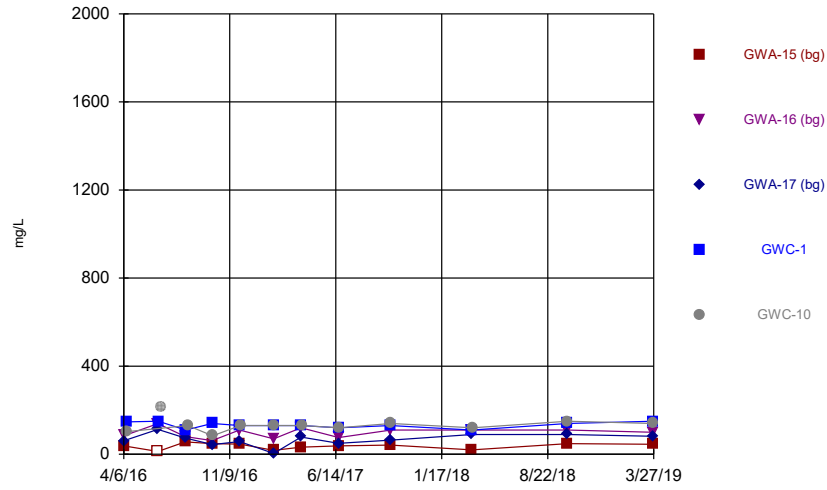
Constituent: Sulfate Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



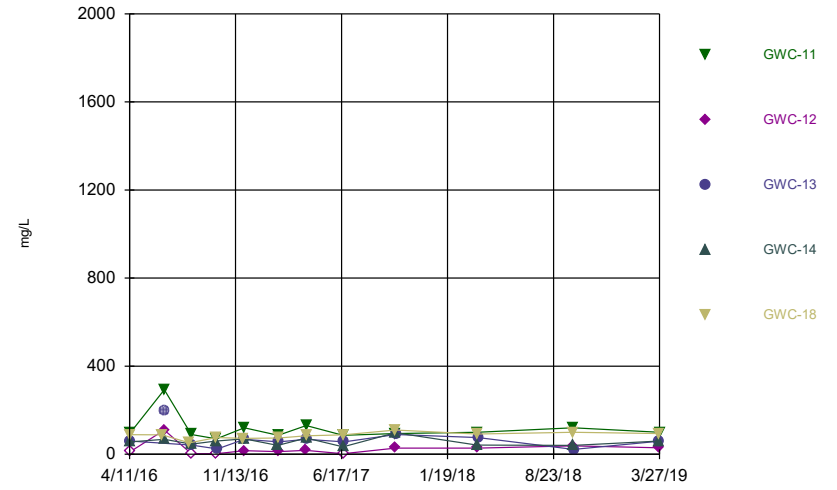
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



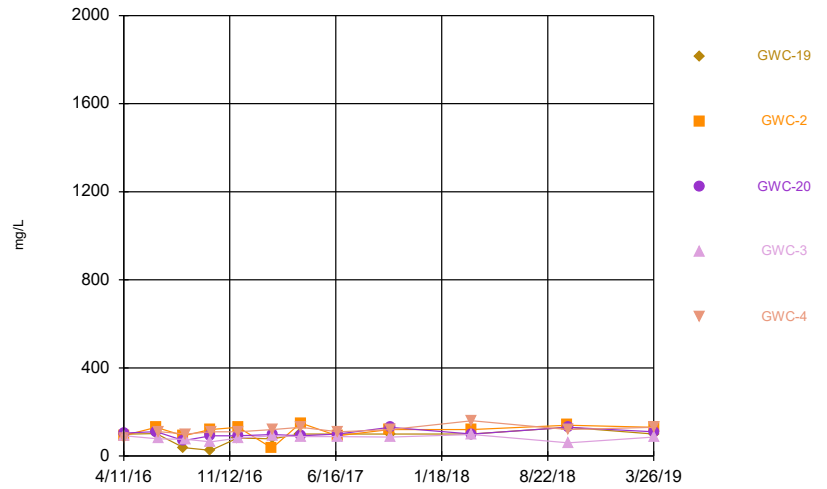
Constituent: Total Dissolved Solids Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



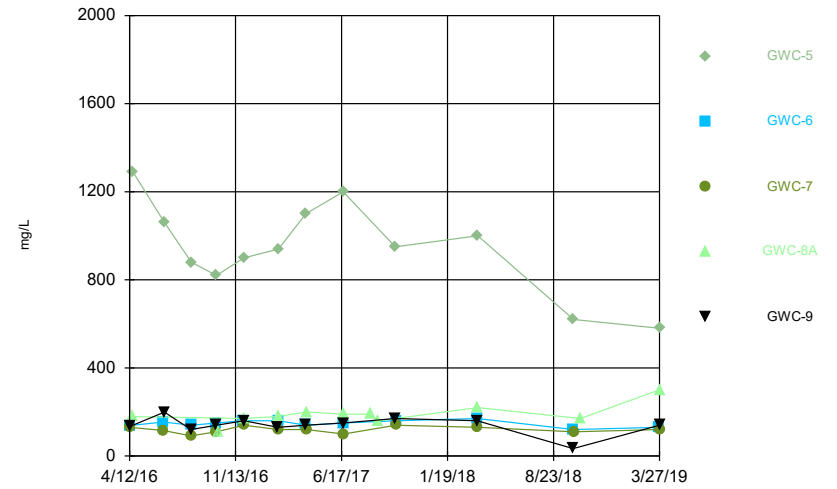
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



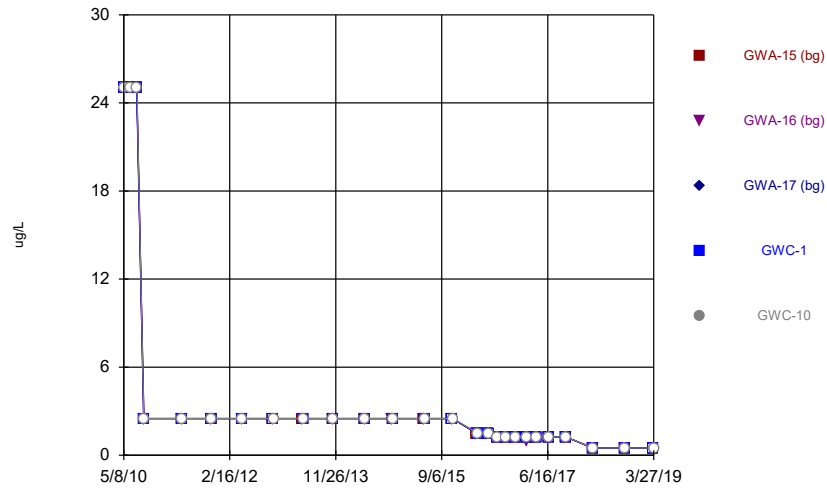
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



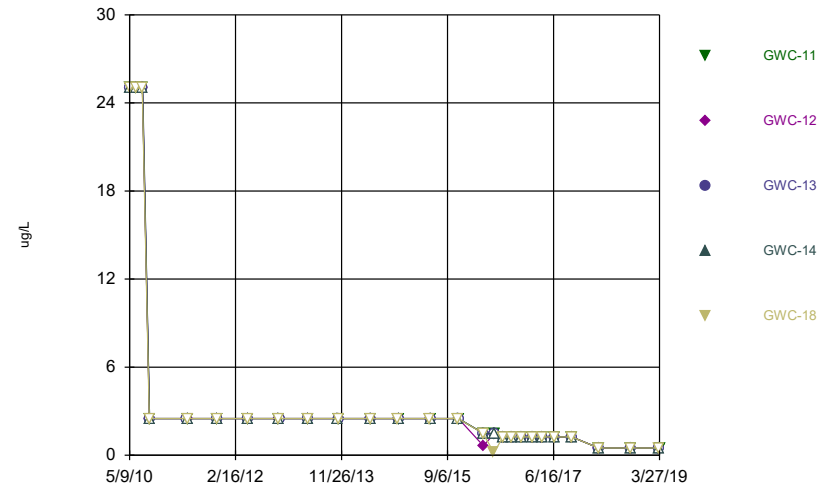
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### Time Series



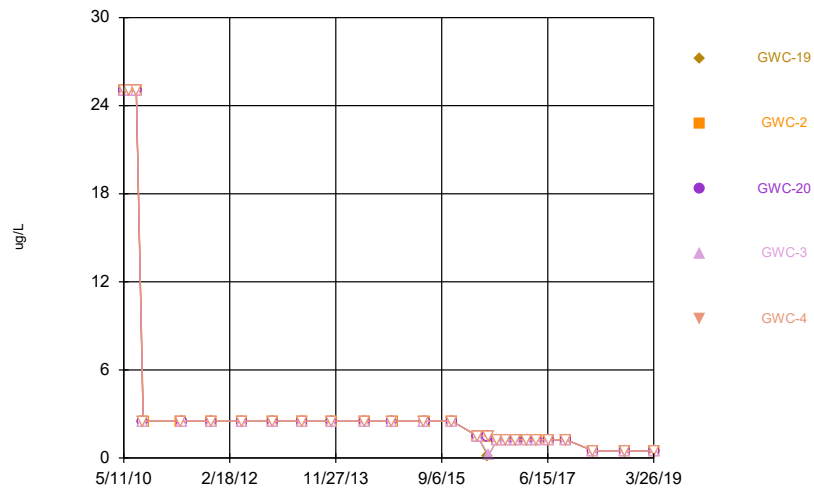
Constituent: Antimony, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



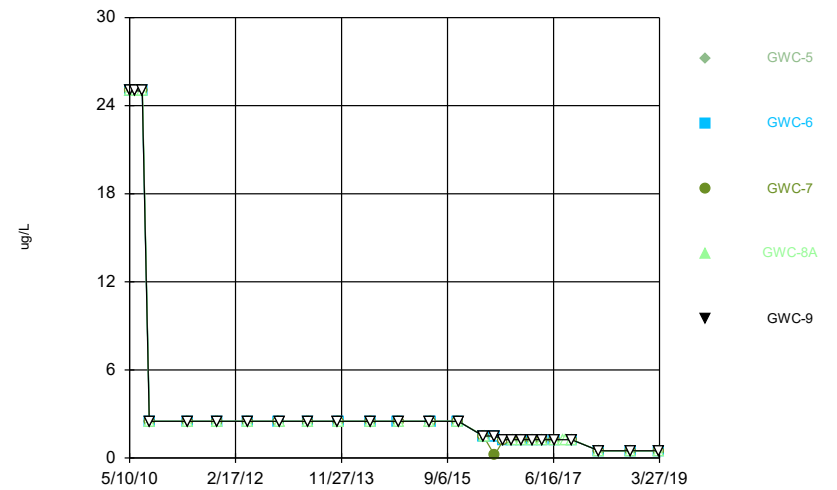
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### Time Series



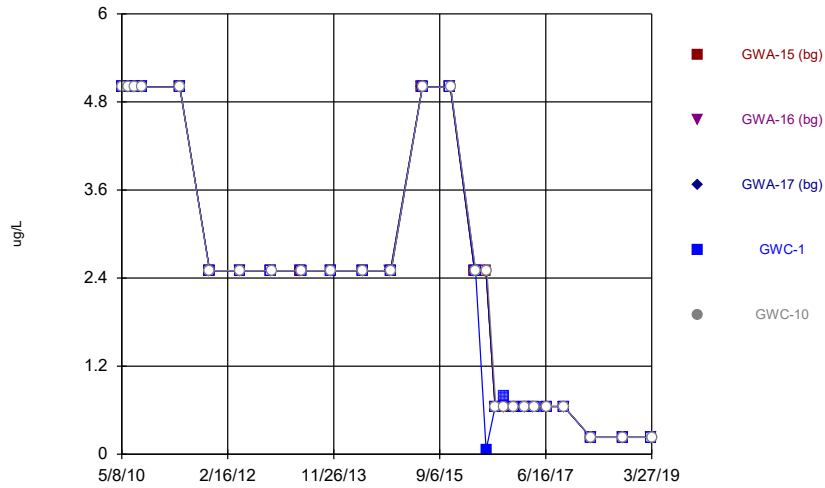
Constituent: Antimony, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



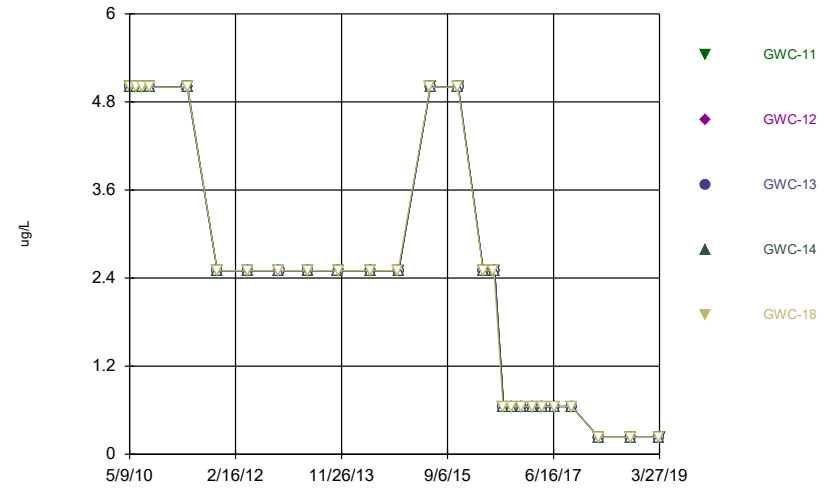
Constituent: Antimony, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



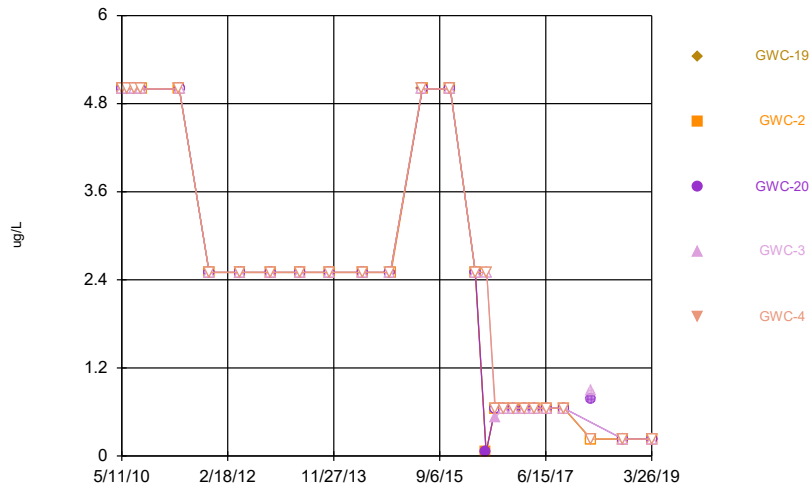
Constituent: Arsenic, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



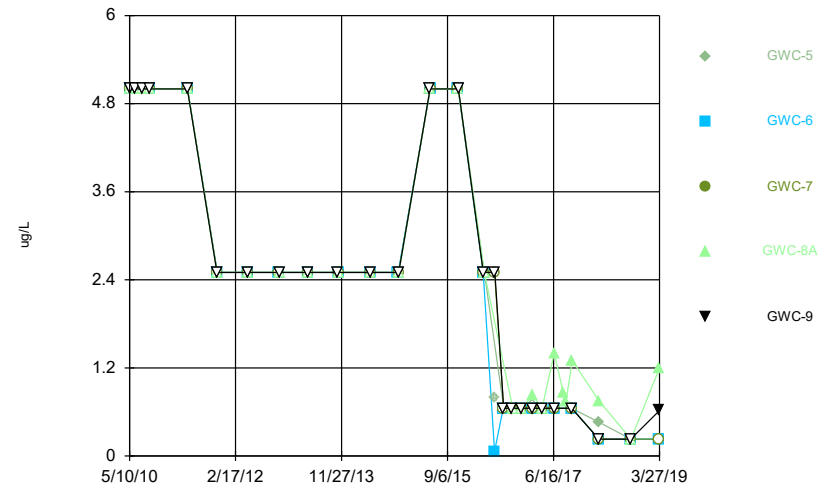
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



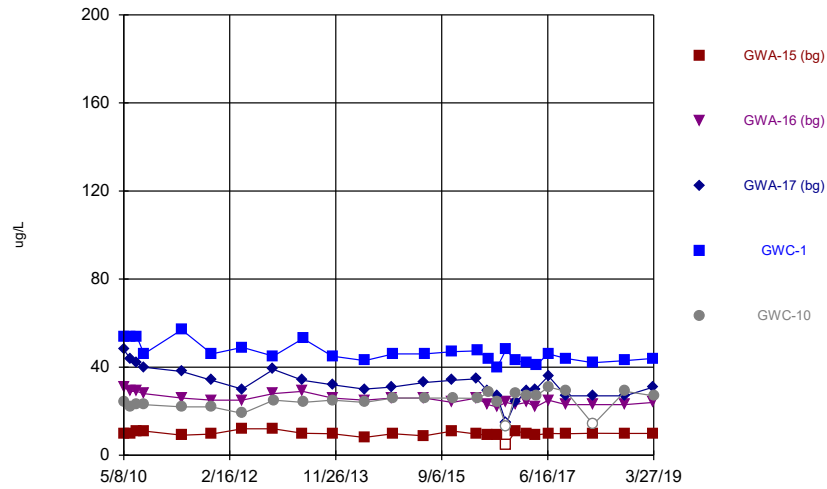
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Time Series



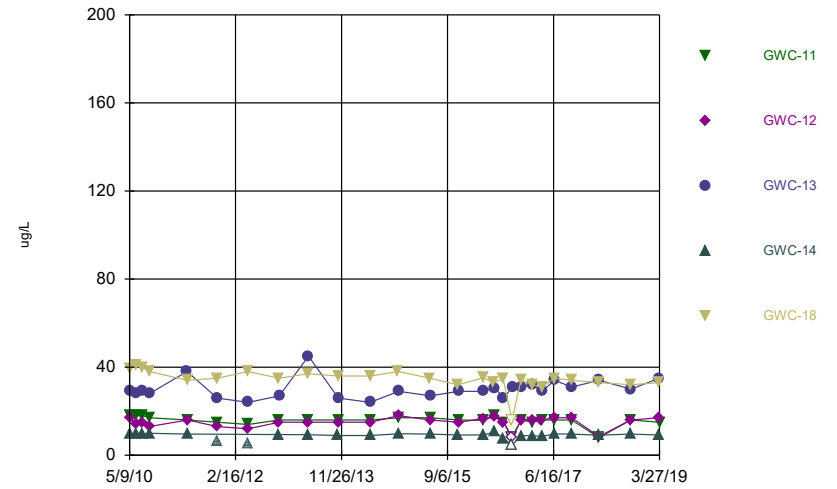
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



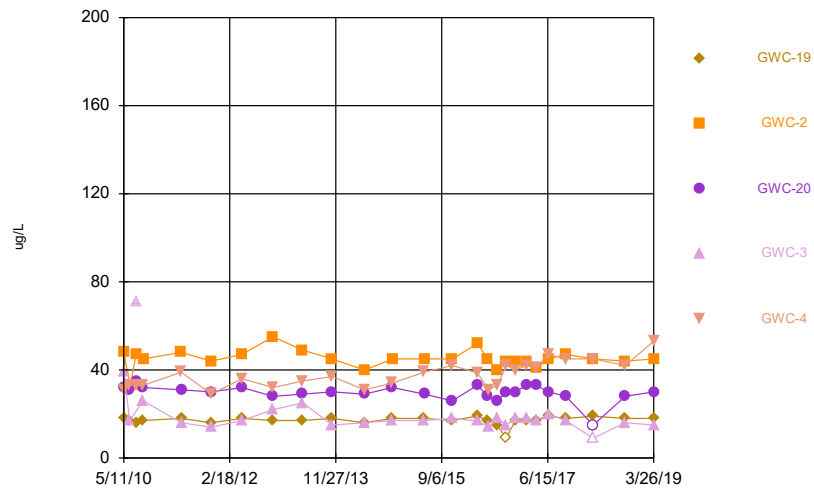
Constituent: Barium, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



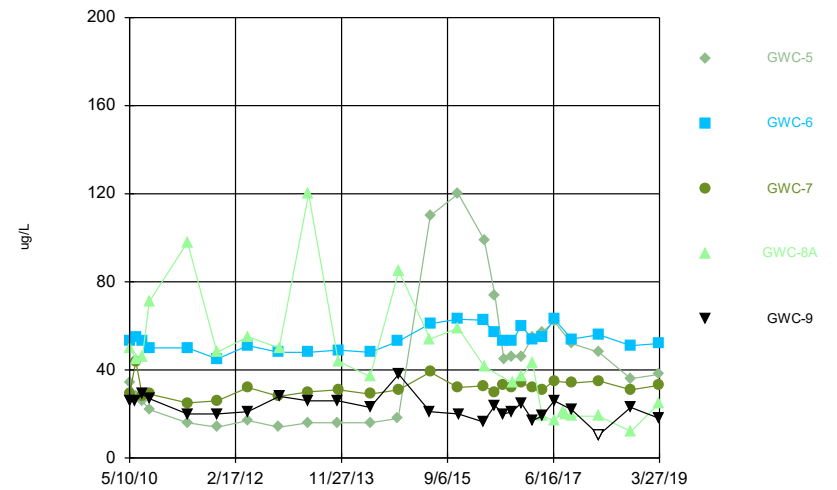
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



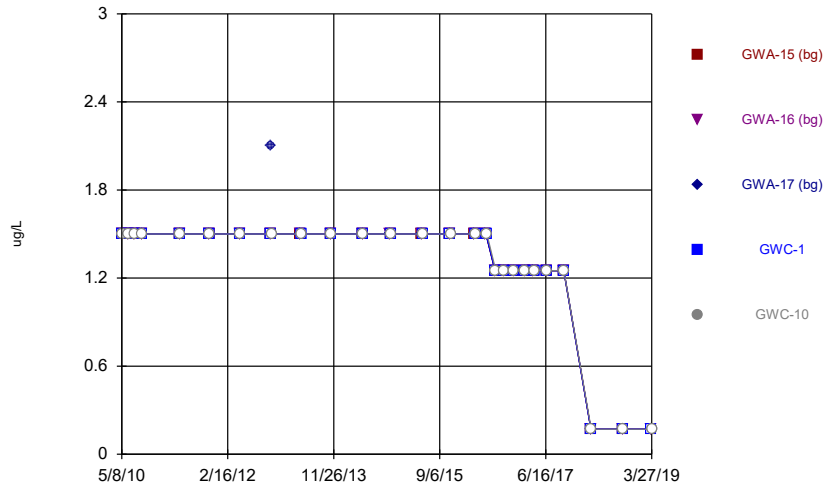
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



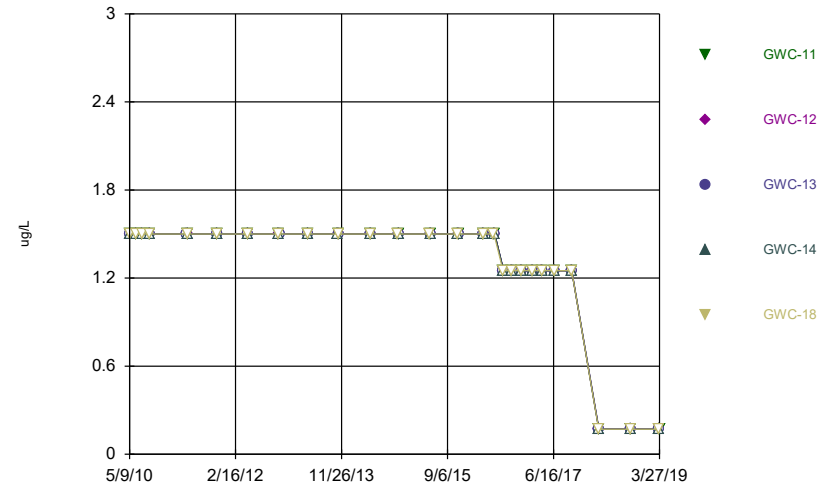
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



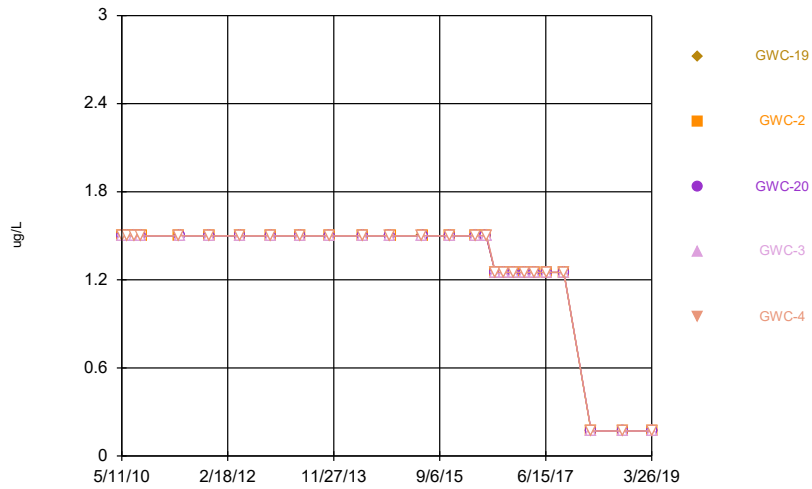
Constituent: Beryllium, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



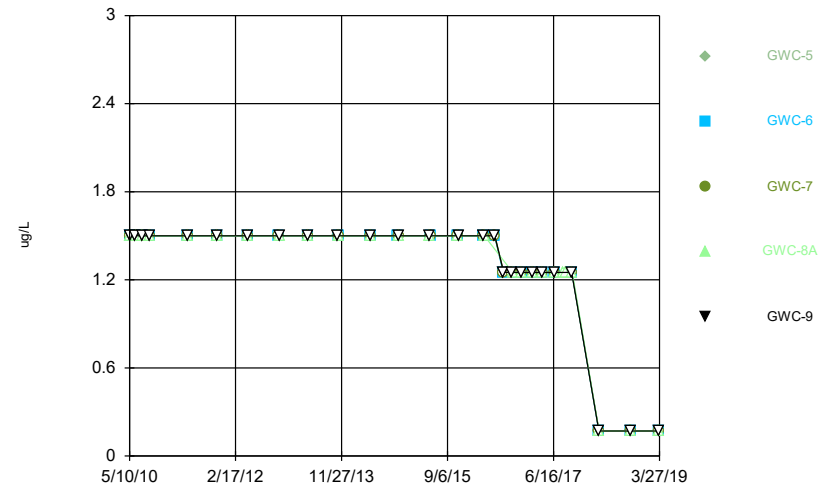
Constituent: Beryllium, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



Constituent: Beryllium, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
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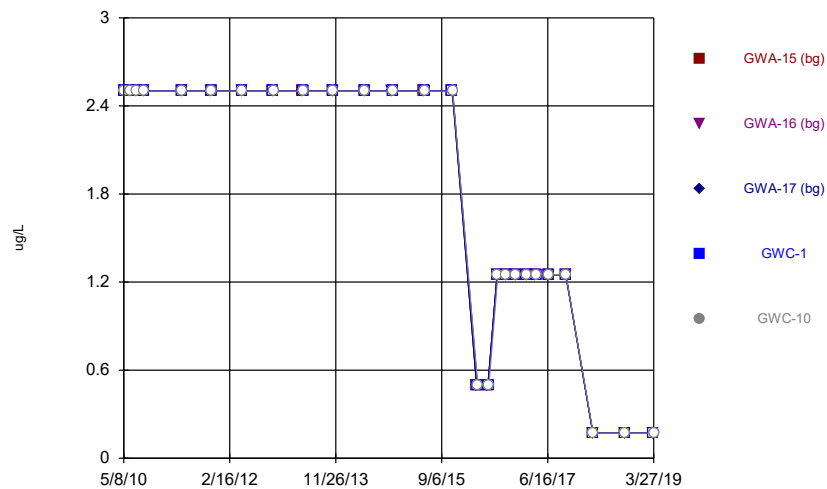
Time Series



Constituent: Beryllium, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
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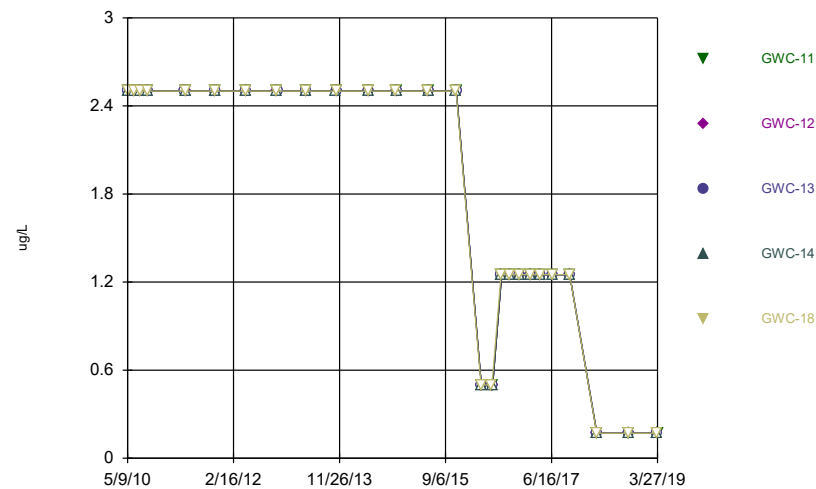


Time Series



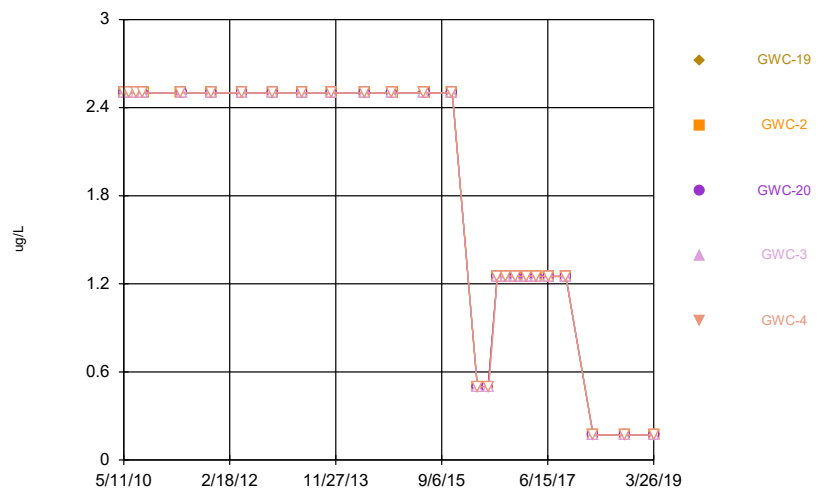
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



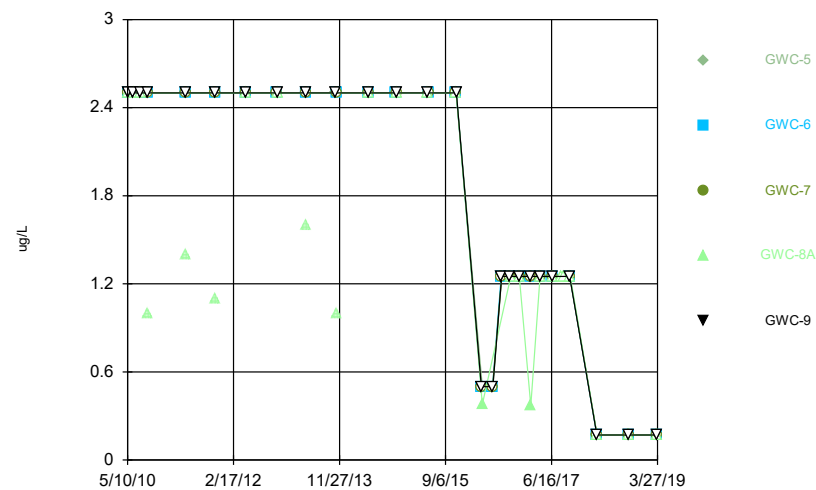
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Time Series



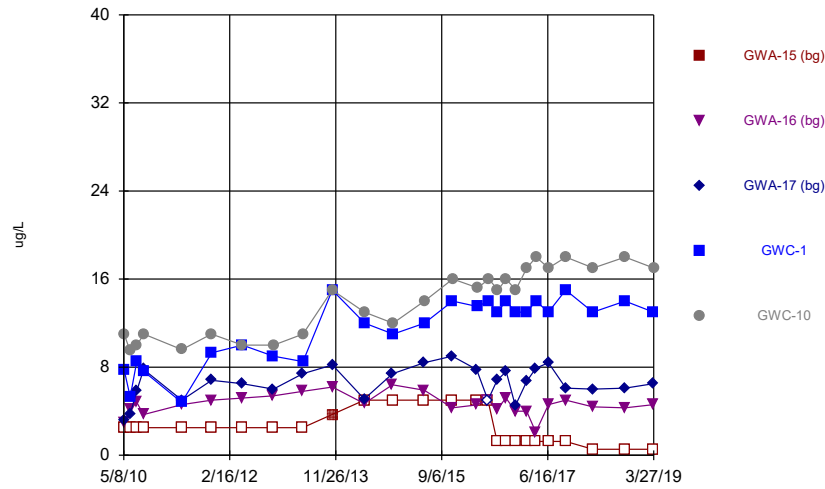
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



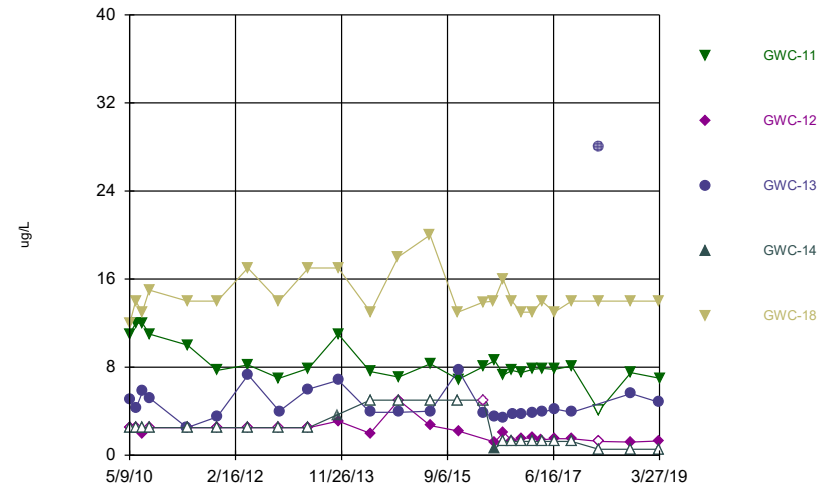
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



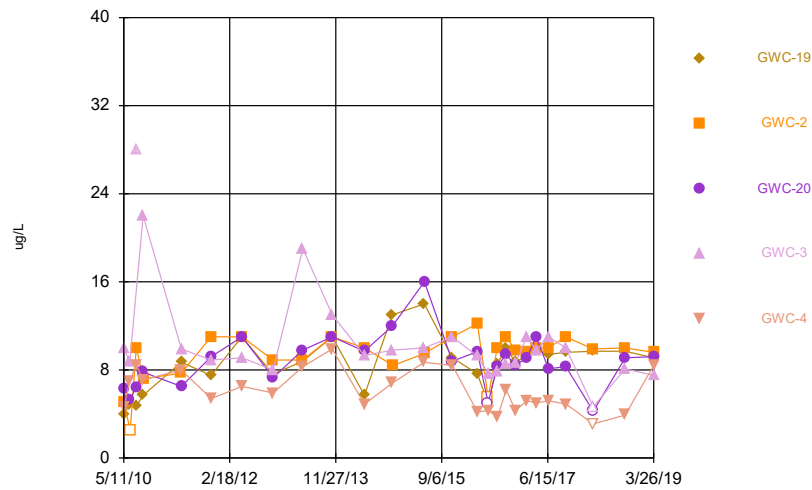
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



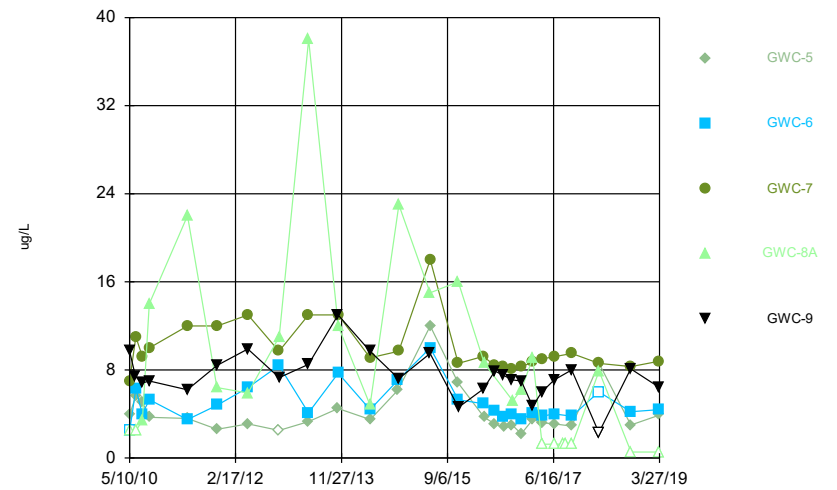
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



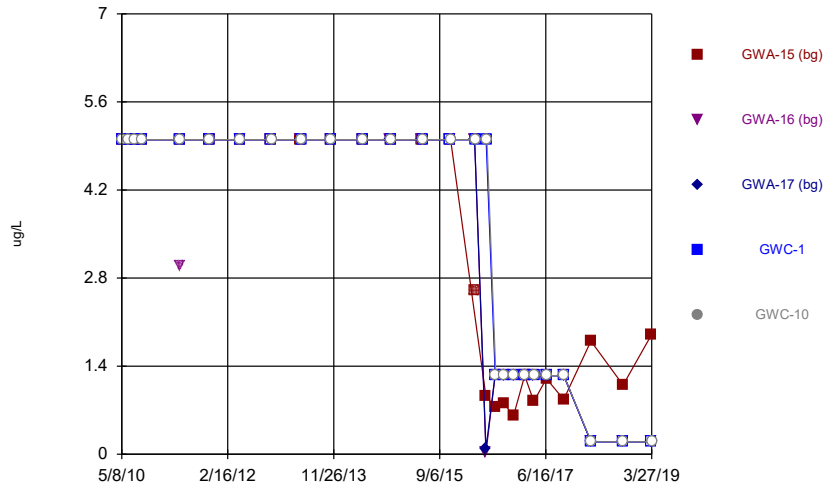
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



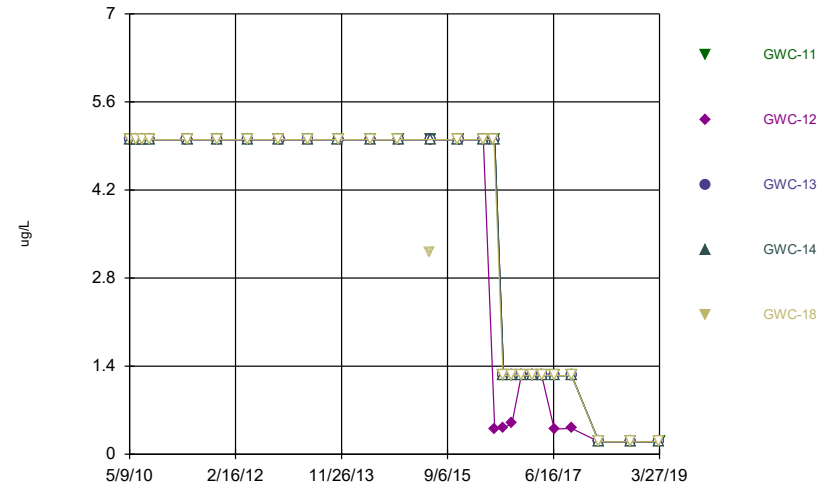
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



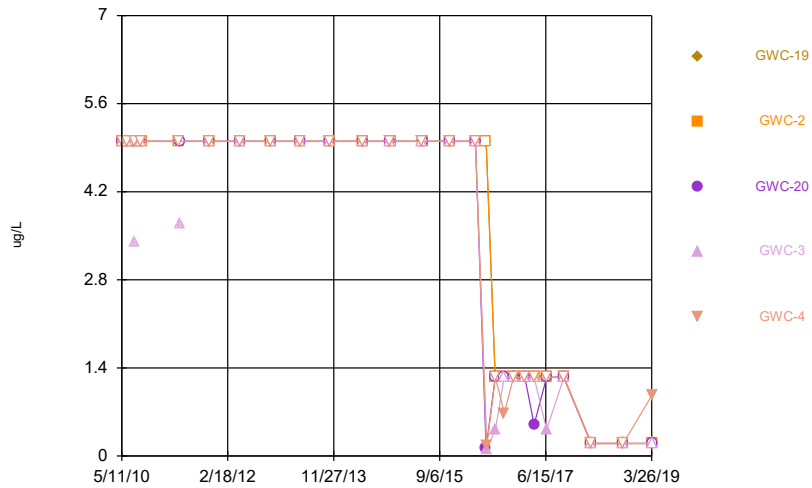
Constituent: Cobalt, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



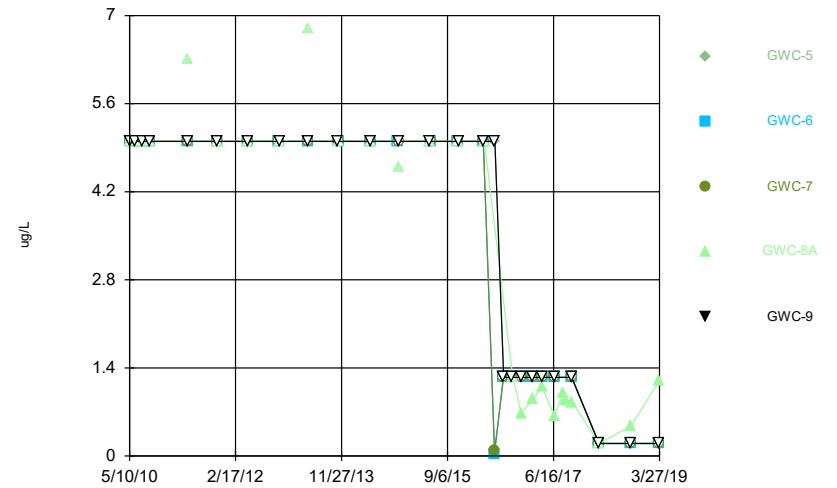
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



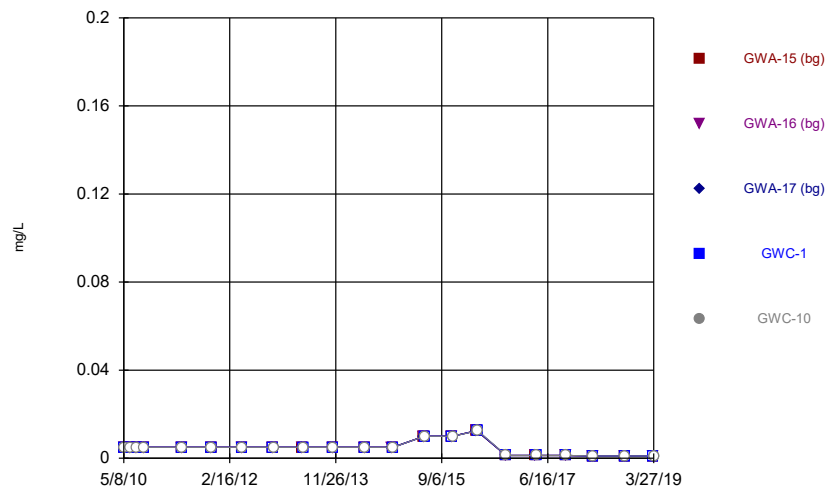
Constituent: Cobalt, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
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Time Series



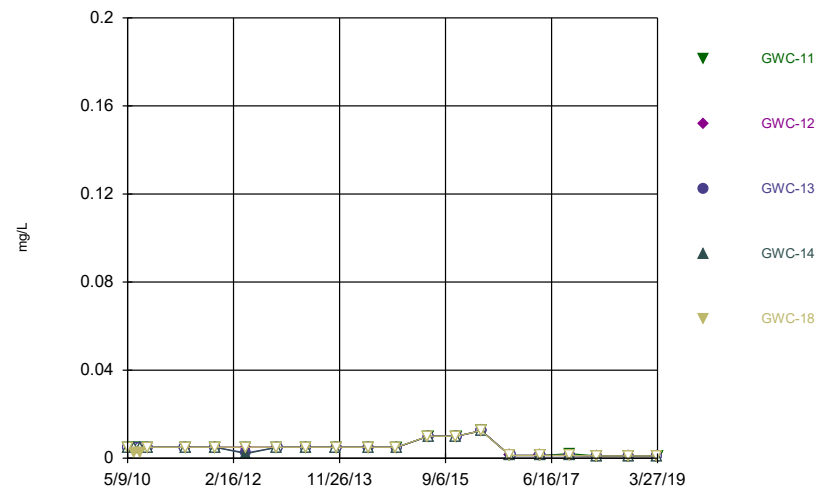
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### Time Series



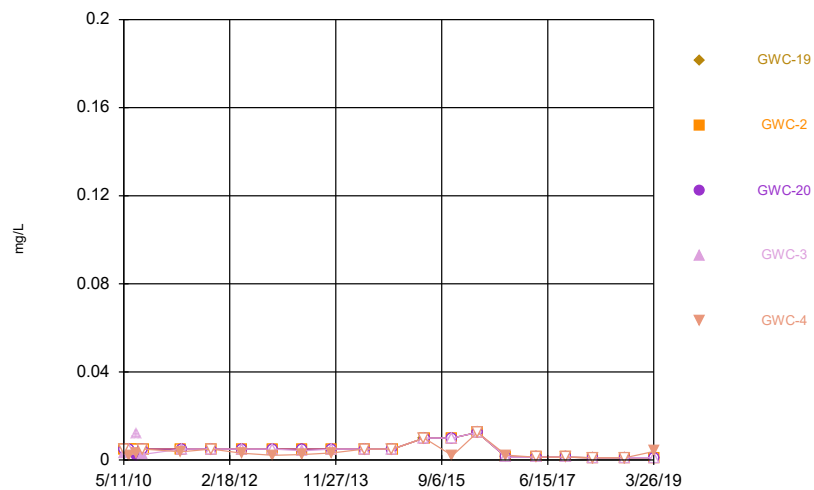
Constituent: Copper Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
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### Time Series



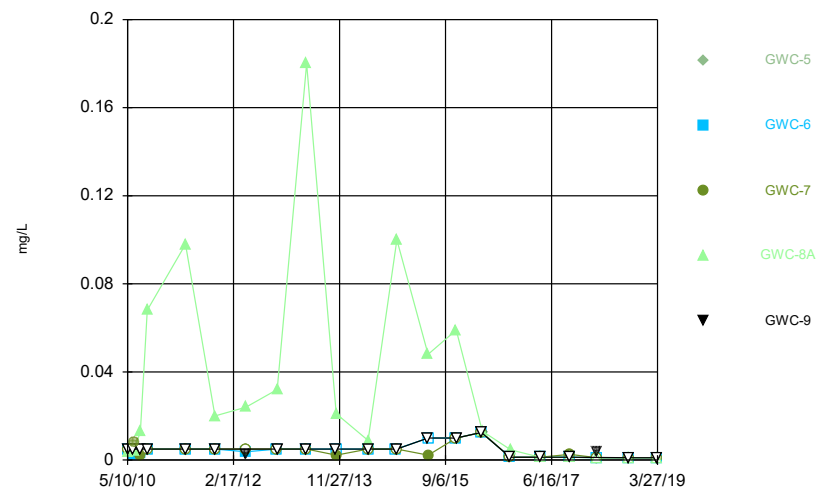
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### Time Series



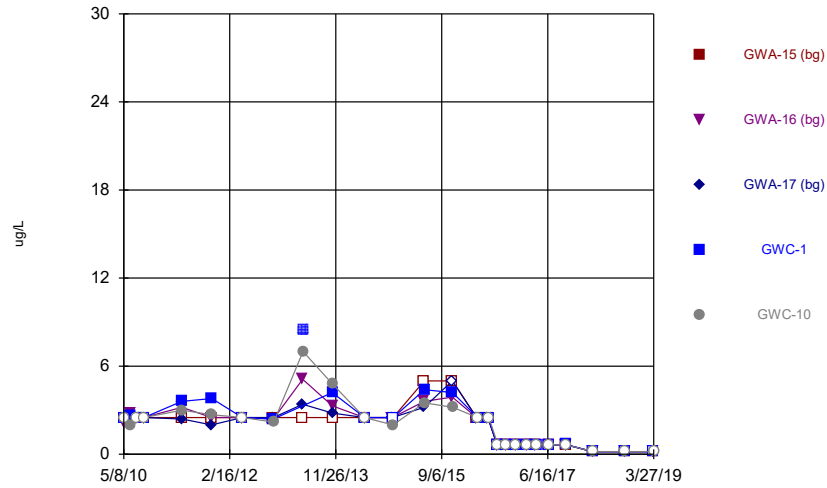
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### Time Series



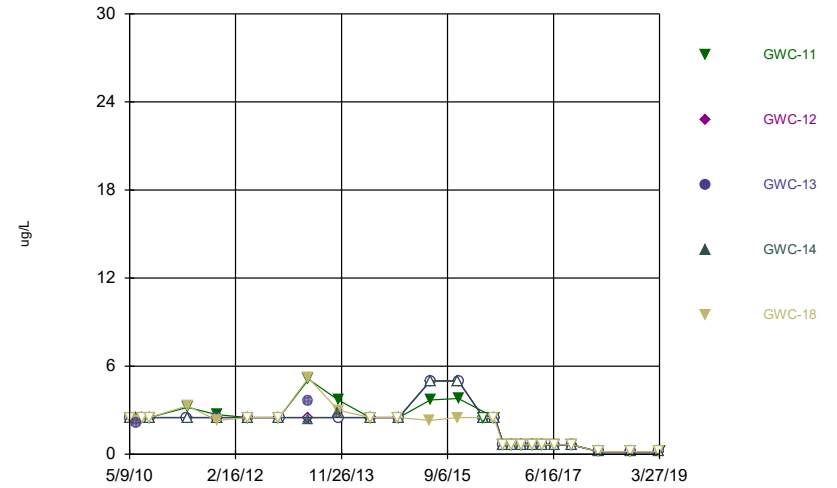
Constituent: Copper Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



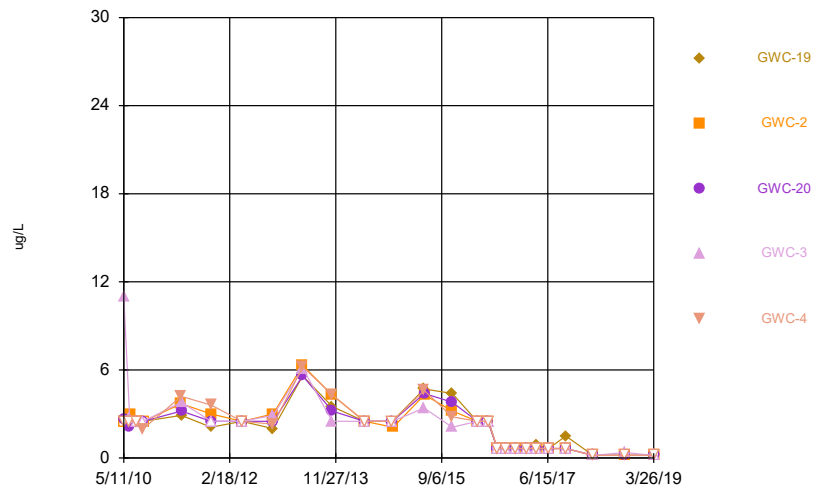
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



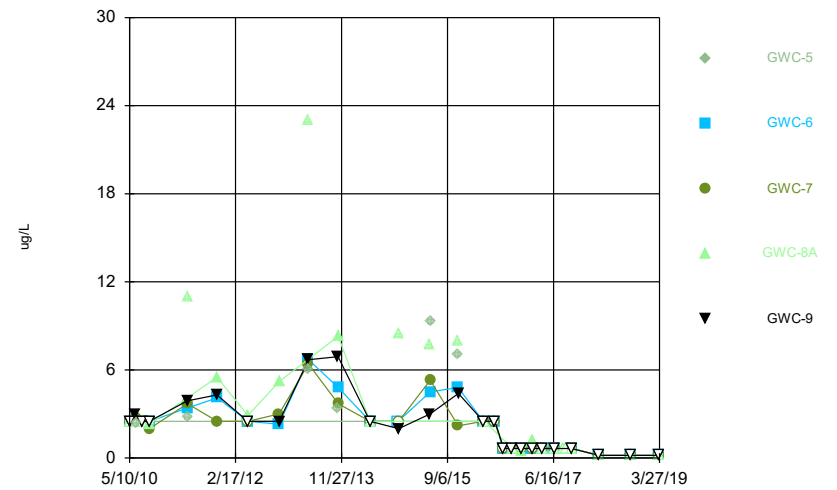
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



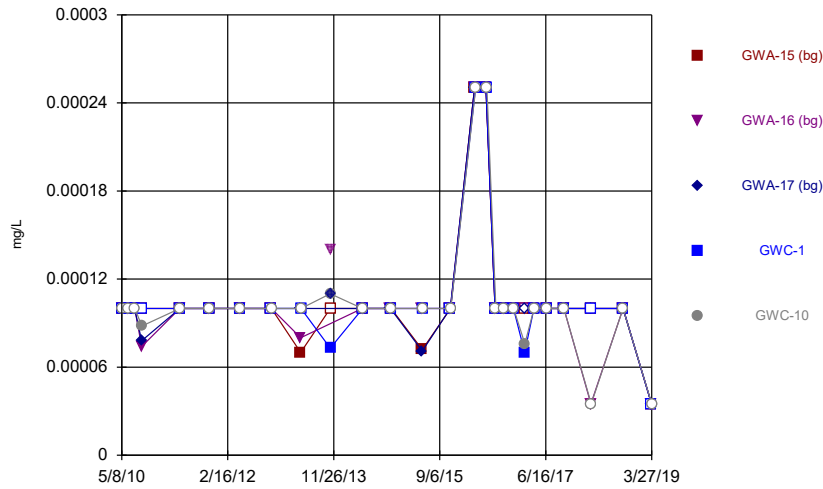
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



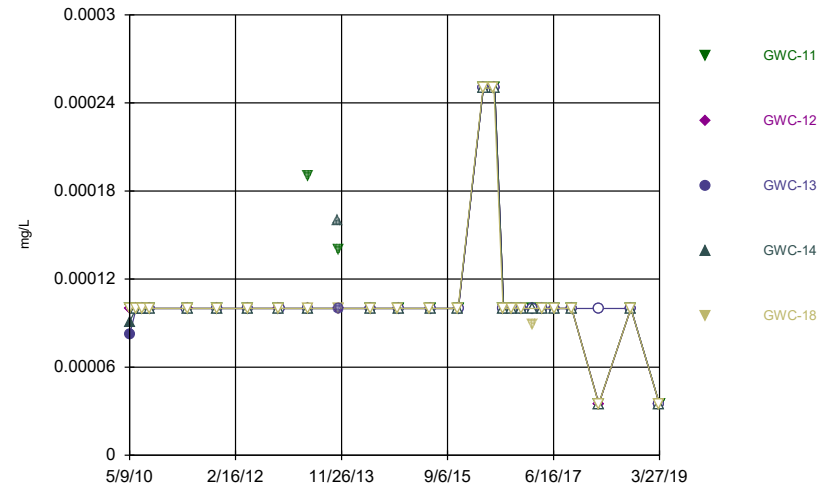
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



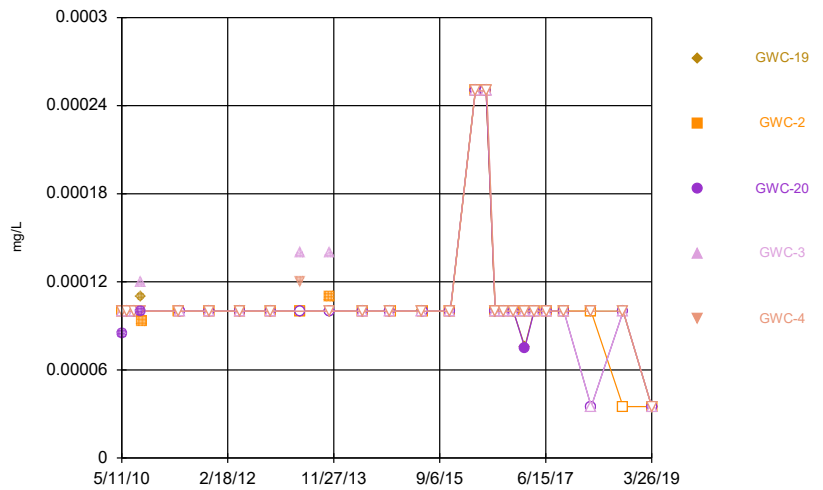
Constituent: Mercury Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



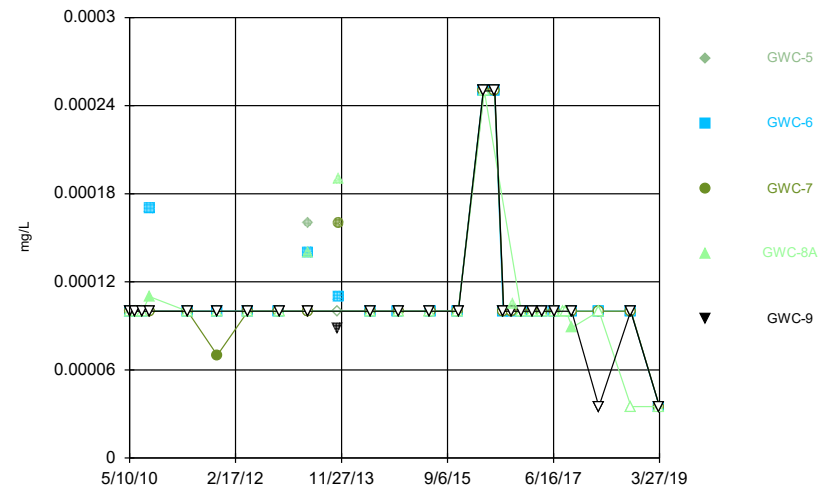
Constituent: Mercury Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



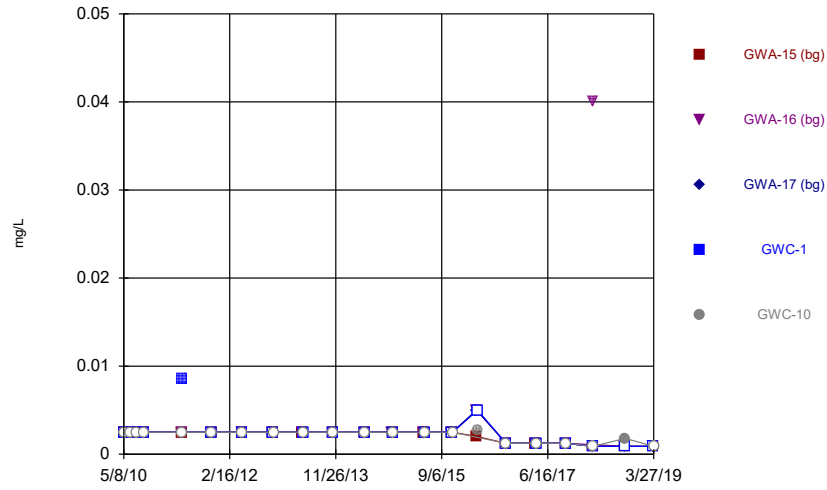
Constituent: Mercury Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



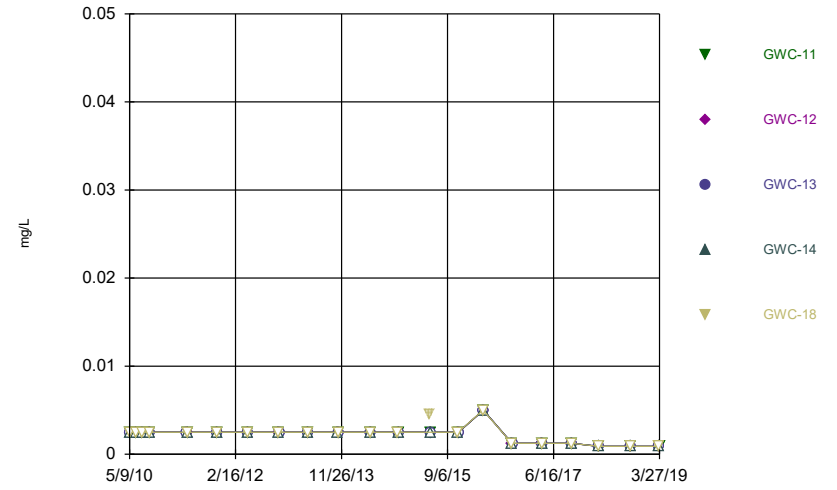
Constituent: Mercury Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



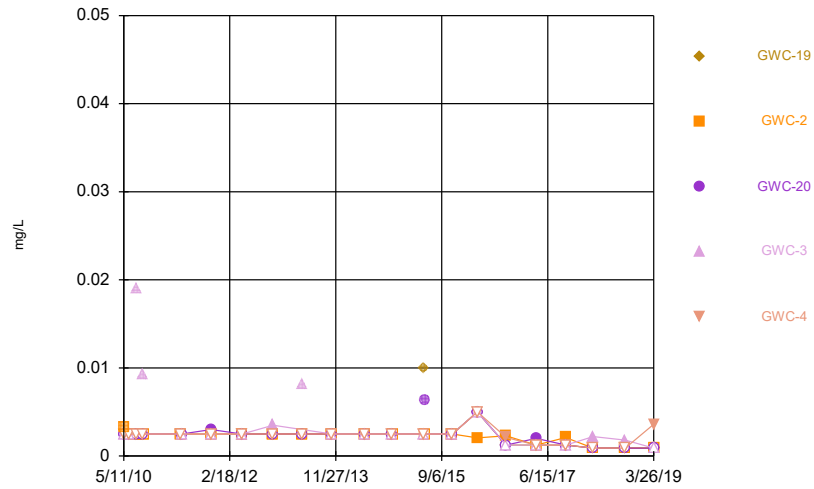
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



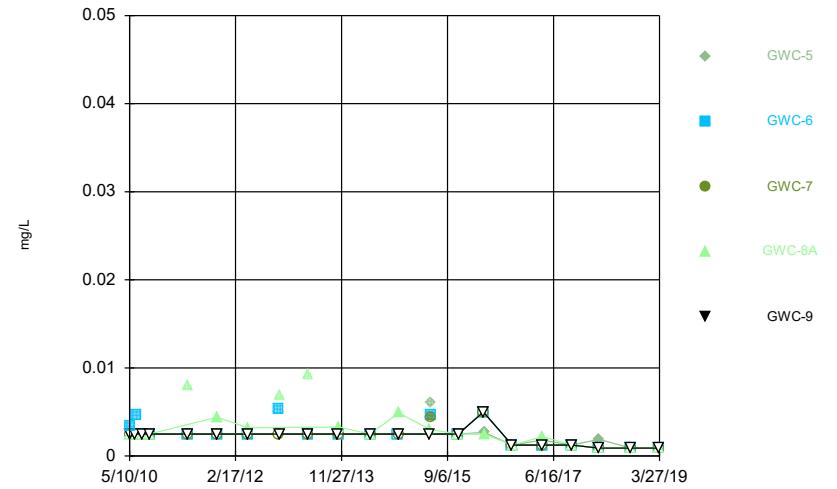
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



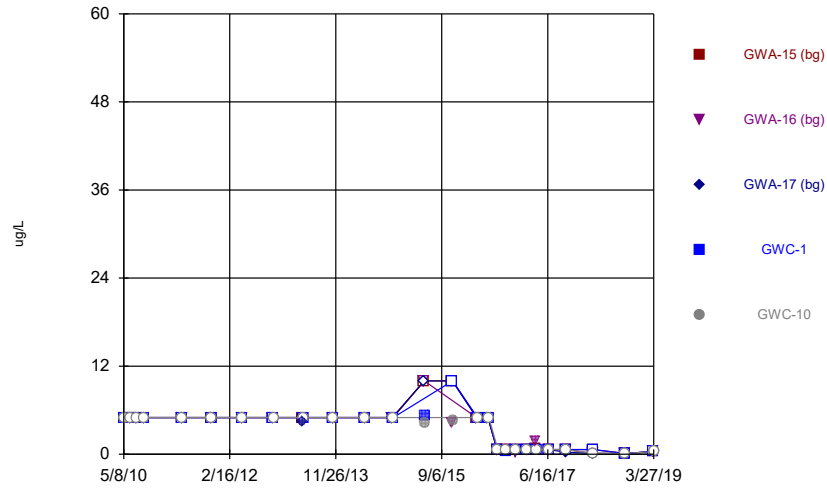
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



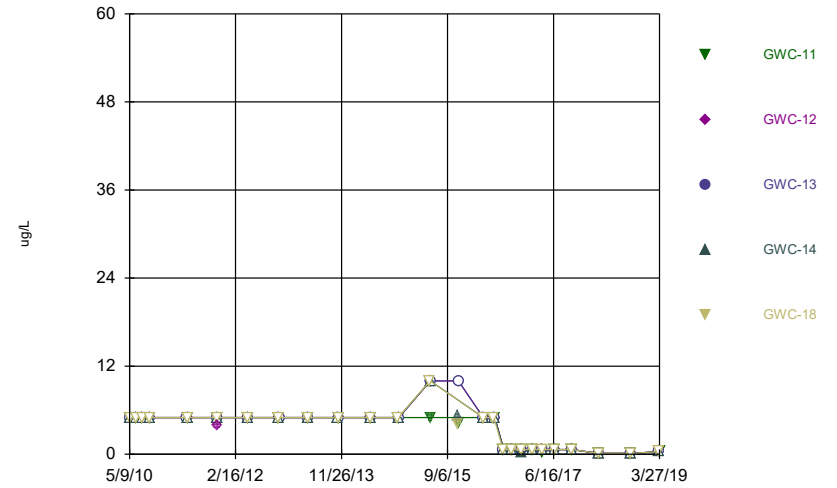
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



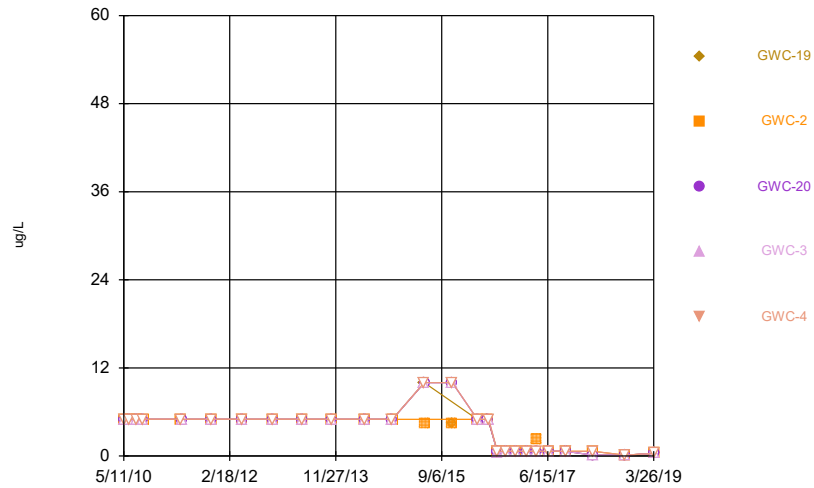
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



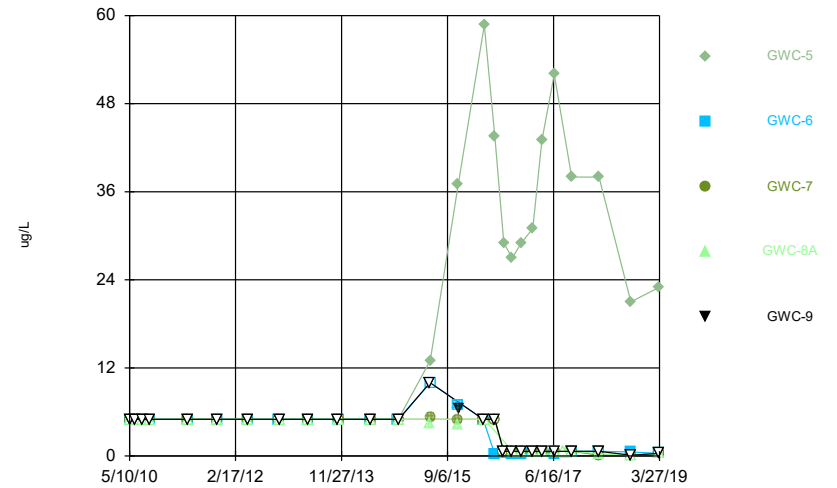
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

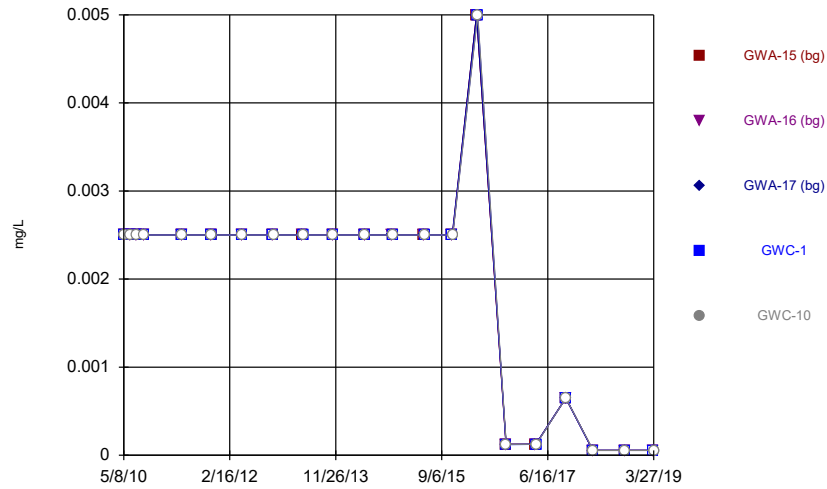
Time Series



Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

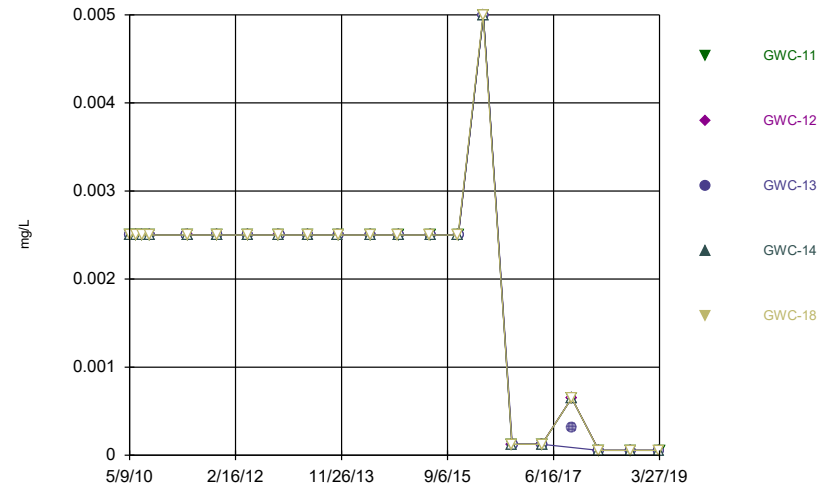


Time Series



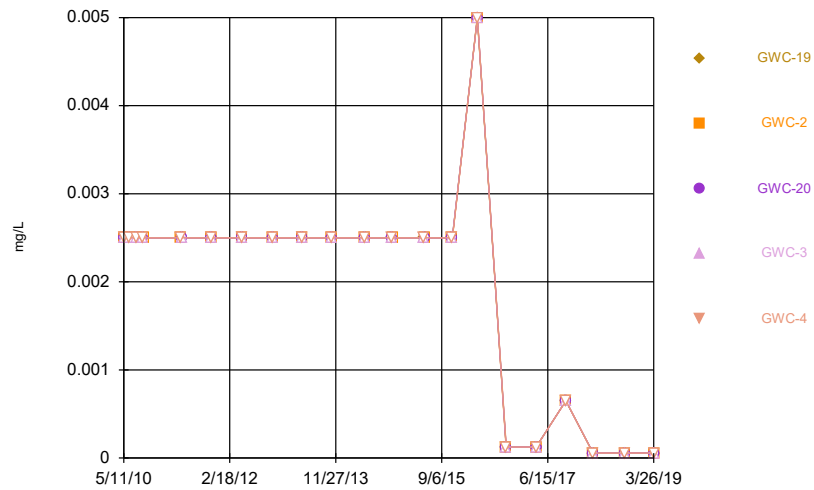
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



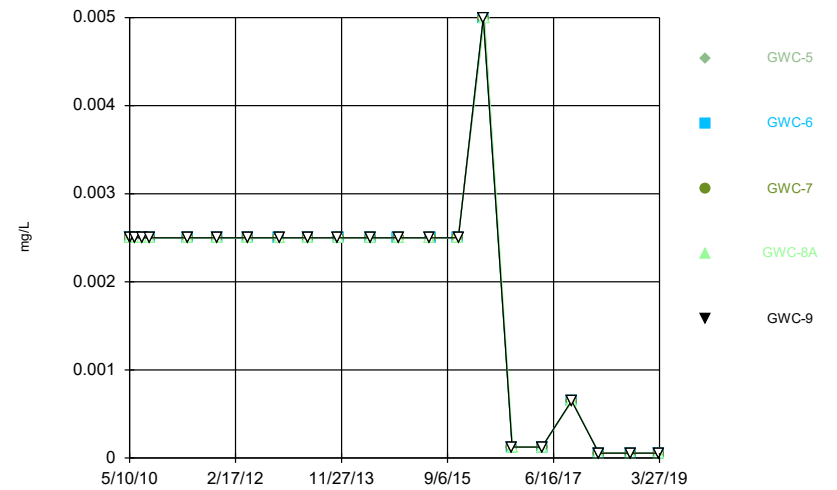
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



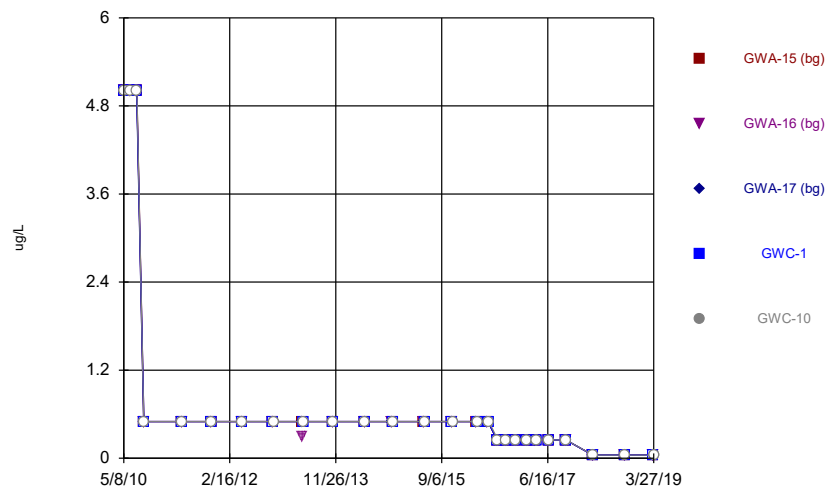
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



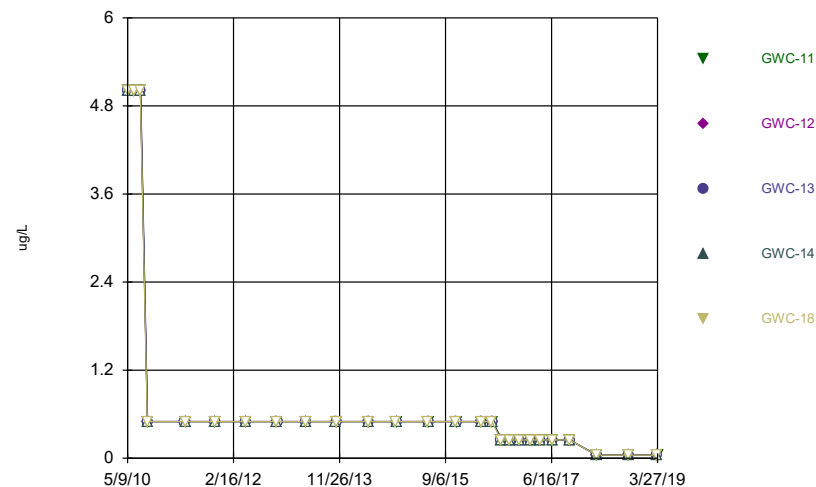
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



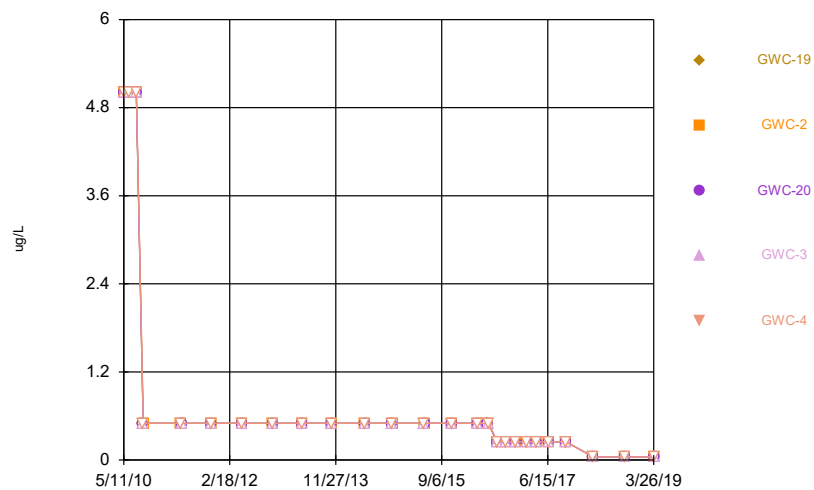
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



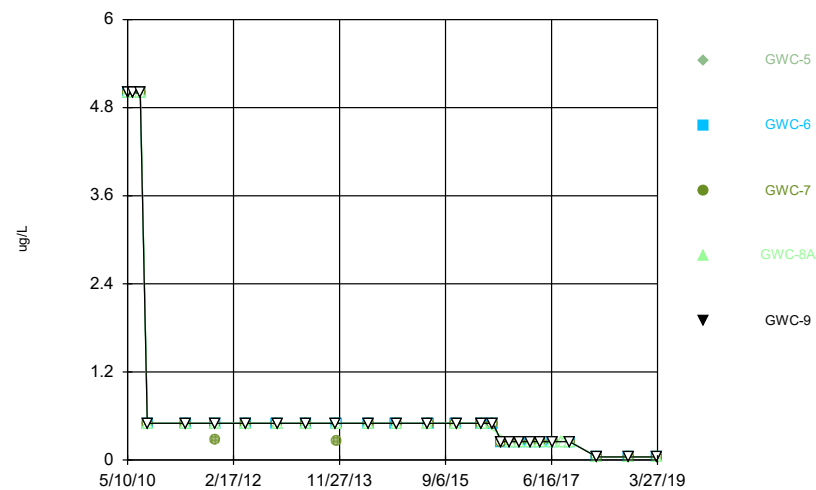
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



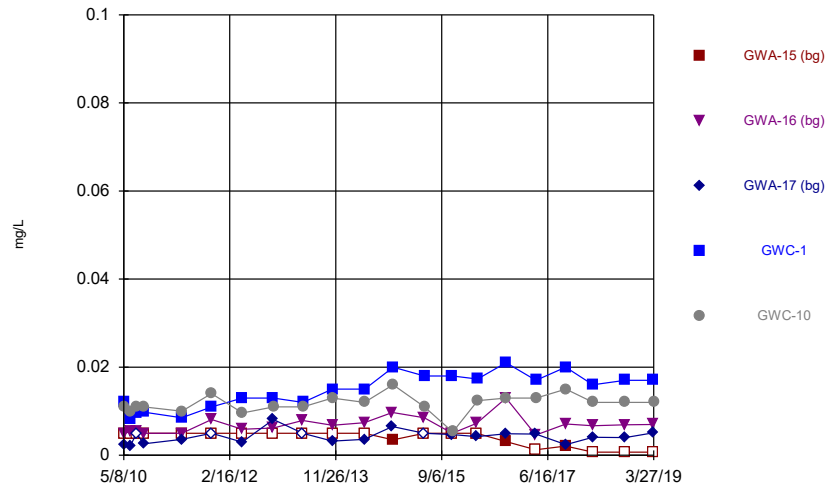
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



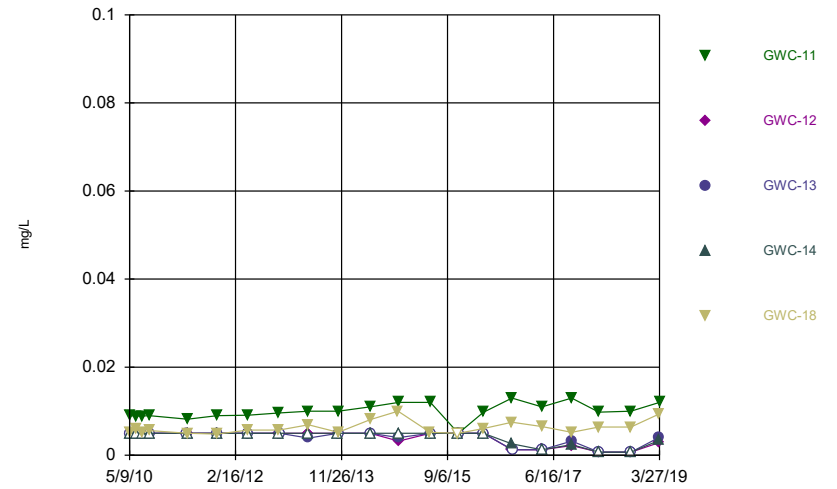
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



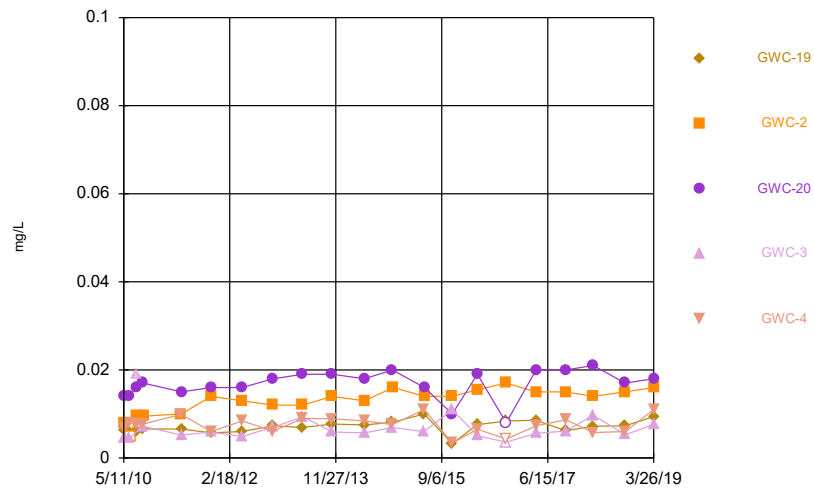
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



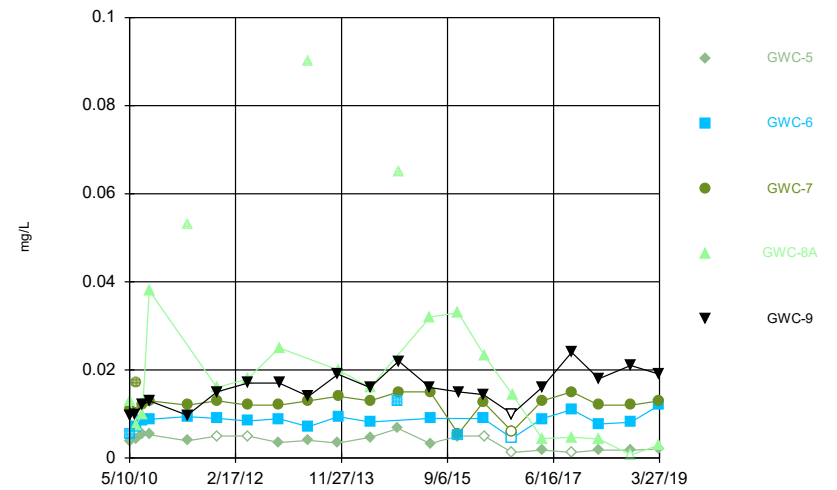
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



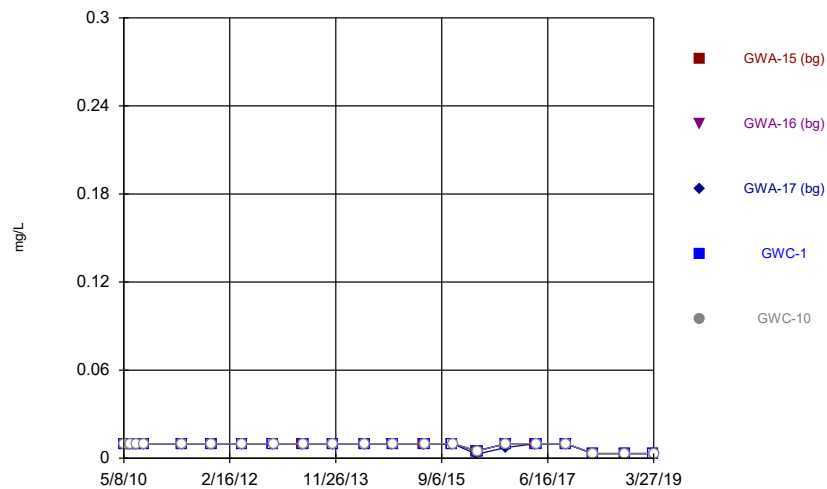
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series

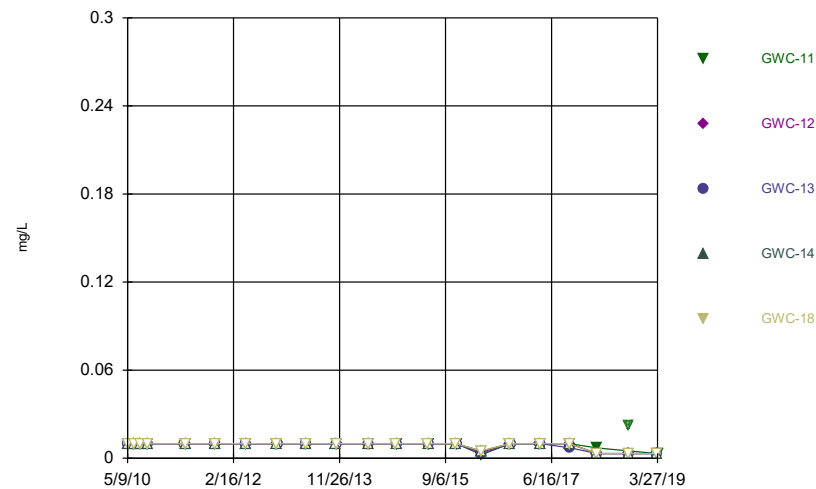


Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

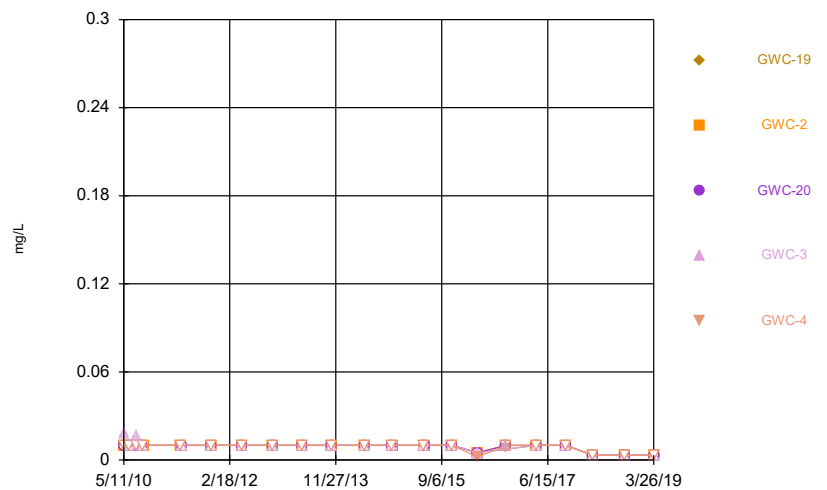
Time Series



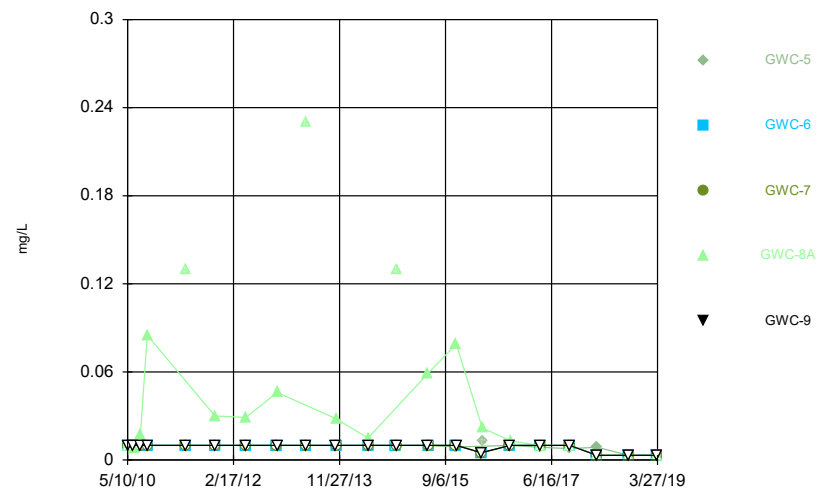
Time Series



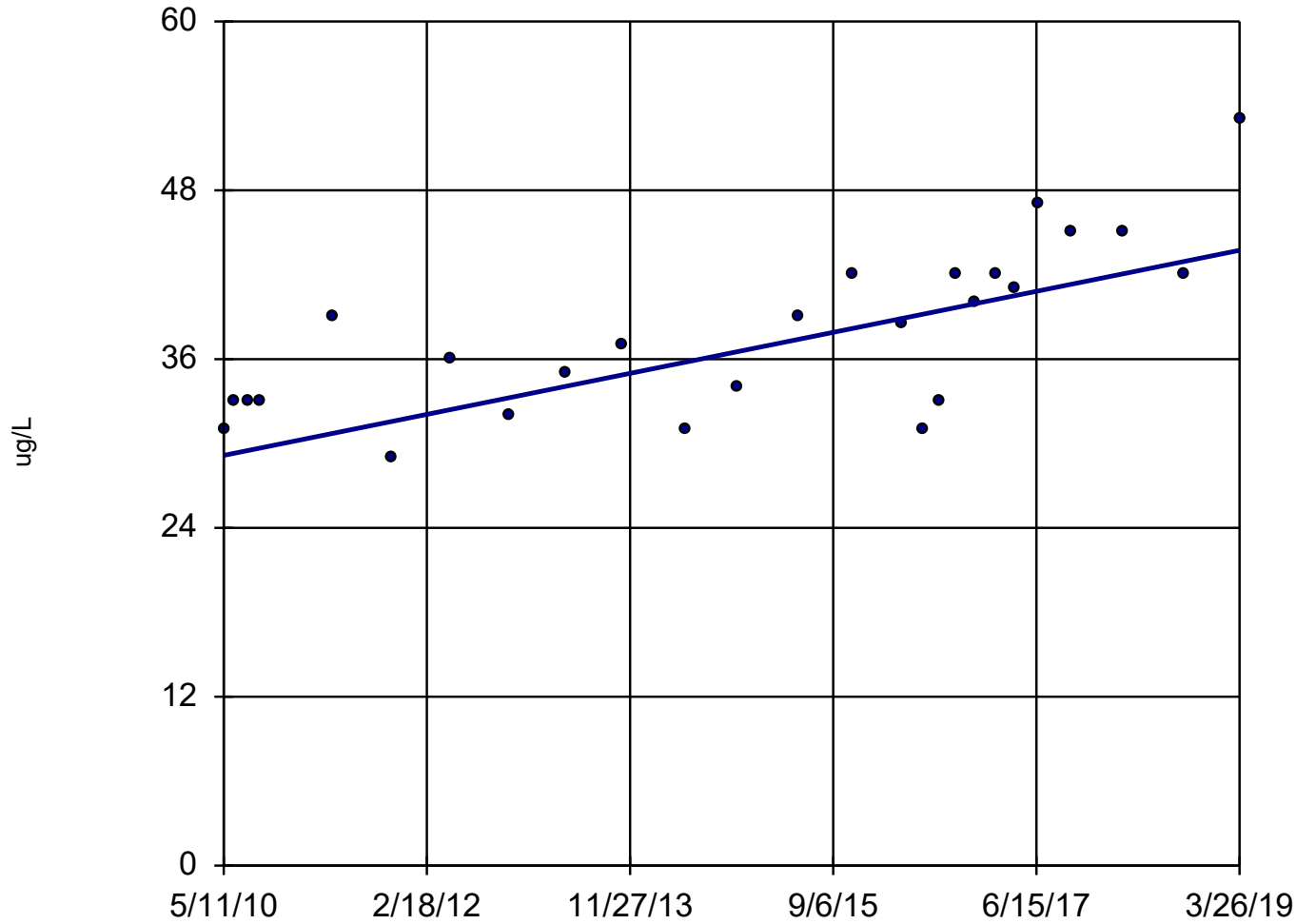
Time Series



Time Series



### Sen's Slope Estimator GWC-4

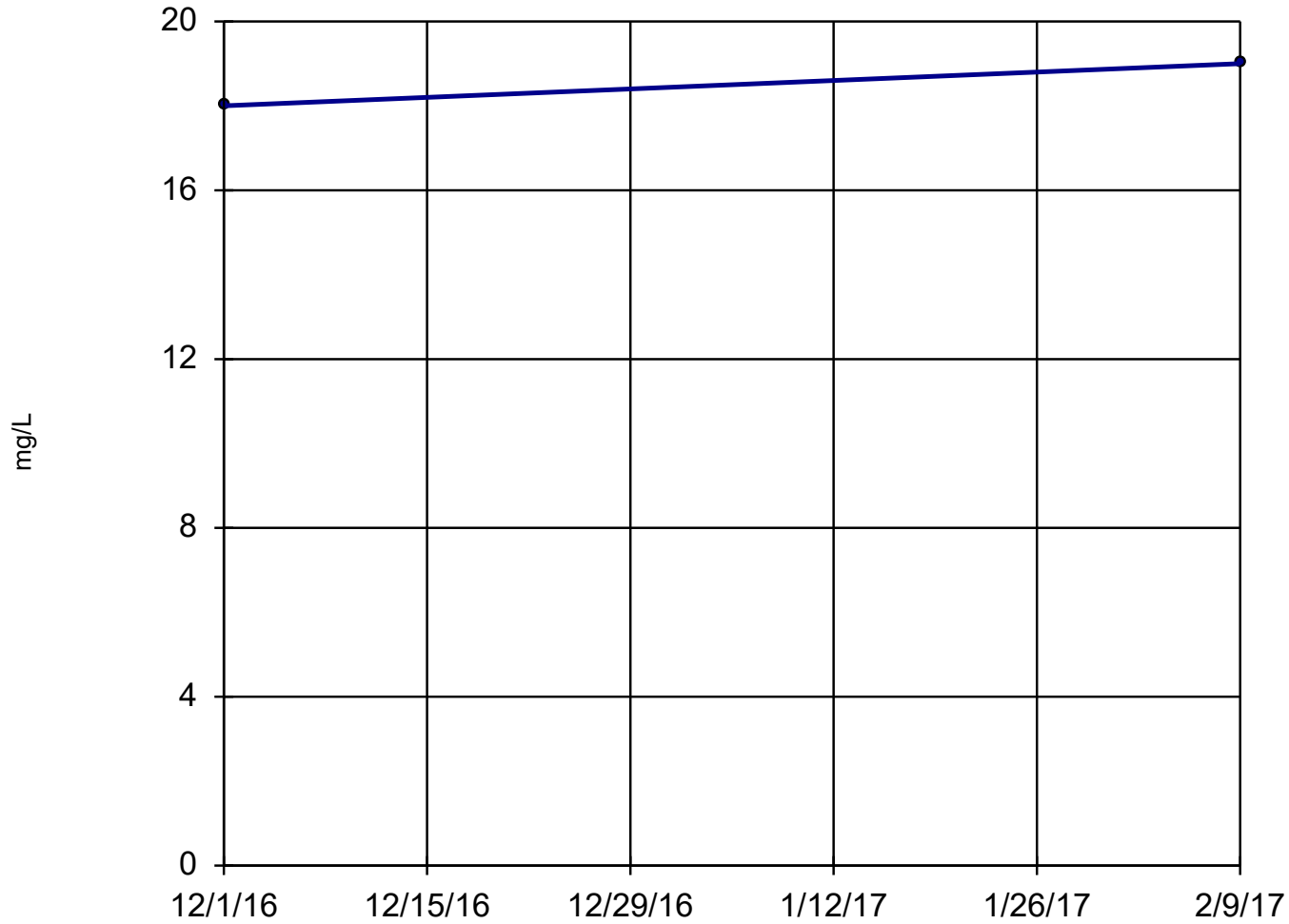


n = 26  
Slope = 1.642 units per year.  
Mann-Kendall statistic = 190  
critical = 118  
Increasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Barium, Total Analysis Run 7/25/2019 2:46 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Sen's Slope Estimator GWC-8A

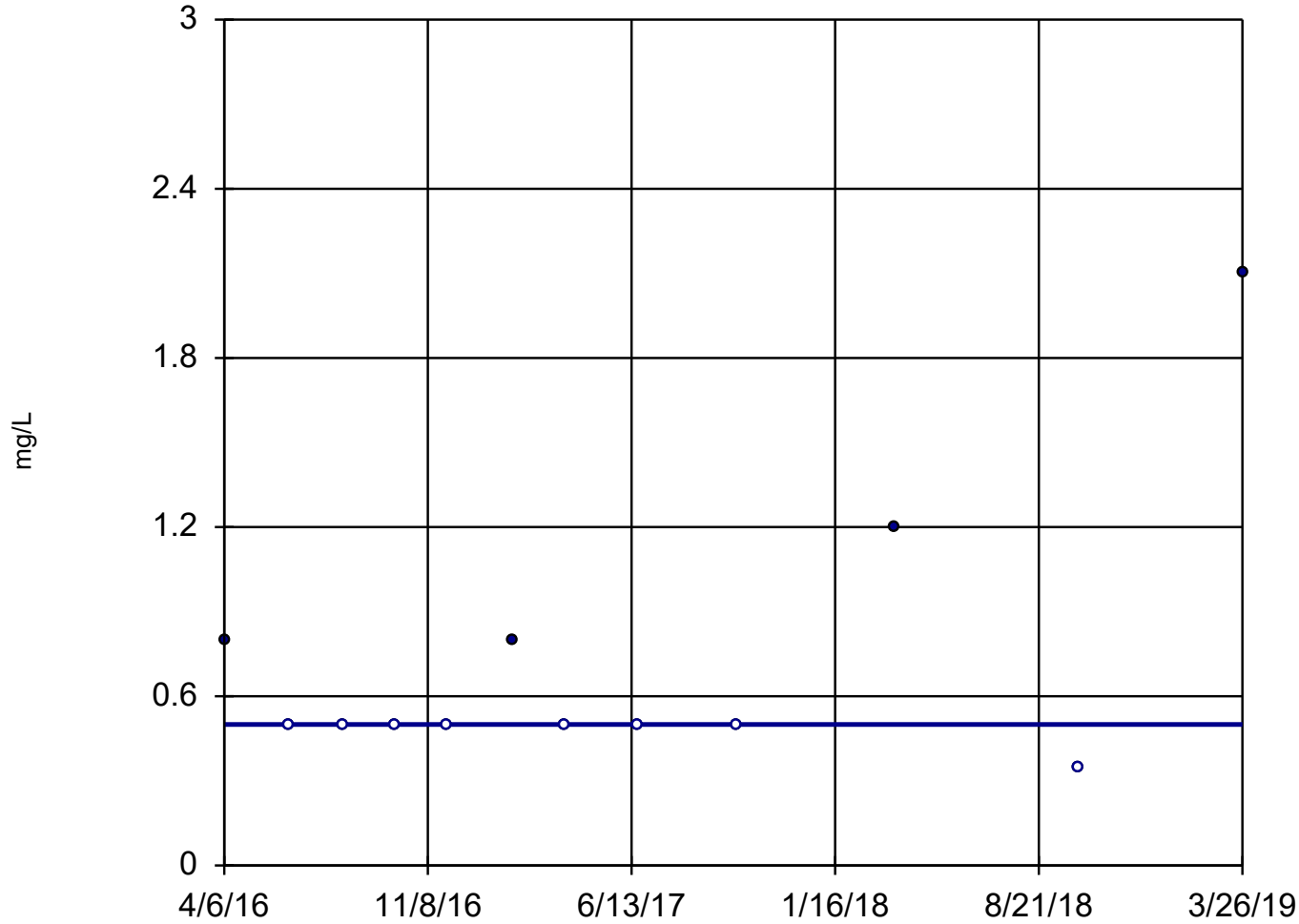


n = 2  
Slope = 5.214  
units per year.  
Minimum n for  
Mann-Kendall  
is 4.

Constituent: Calcium, Dissolved    Analysis Run 7/25/2019 9:25 PM    View: Cell 1 Trend  
Scherer    Client: Golder Associates    Data: Scherer Cell 1 LF

## Sen's Slope Estimator

GWA-15 (bg)

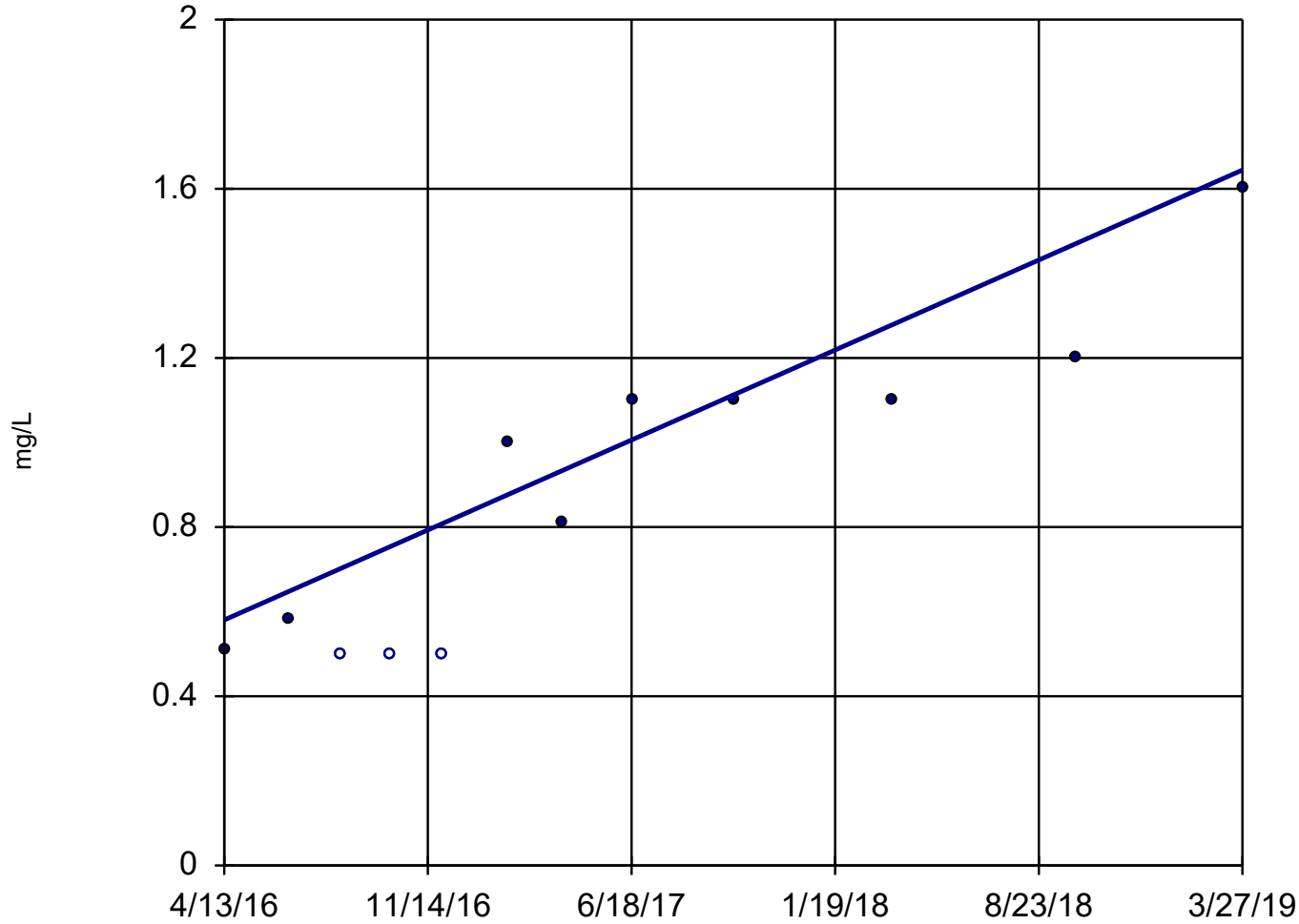


n = 12  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = 5  
critical = 38  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

## Sen's Slope Estimator GWC-10

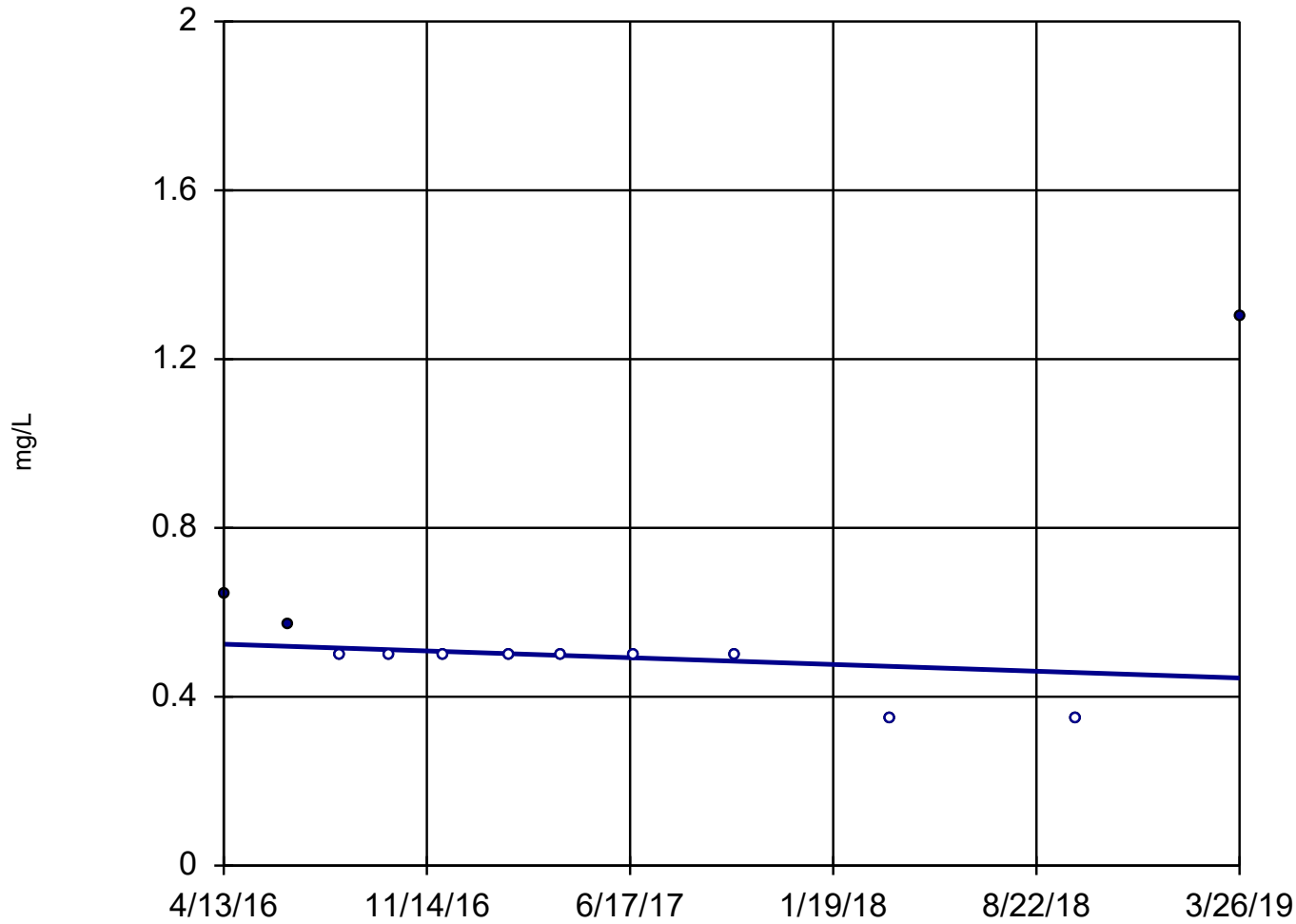


n = 12  
Slope = 0.3602  
units per year.  
Mann-Kendall  
statistic = 46  
critical = 38  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



## Sen's Slope Estimator GWC-13



n = 12

Slope = -0.02707  
units per year.

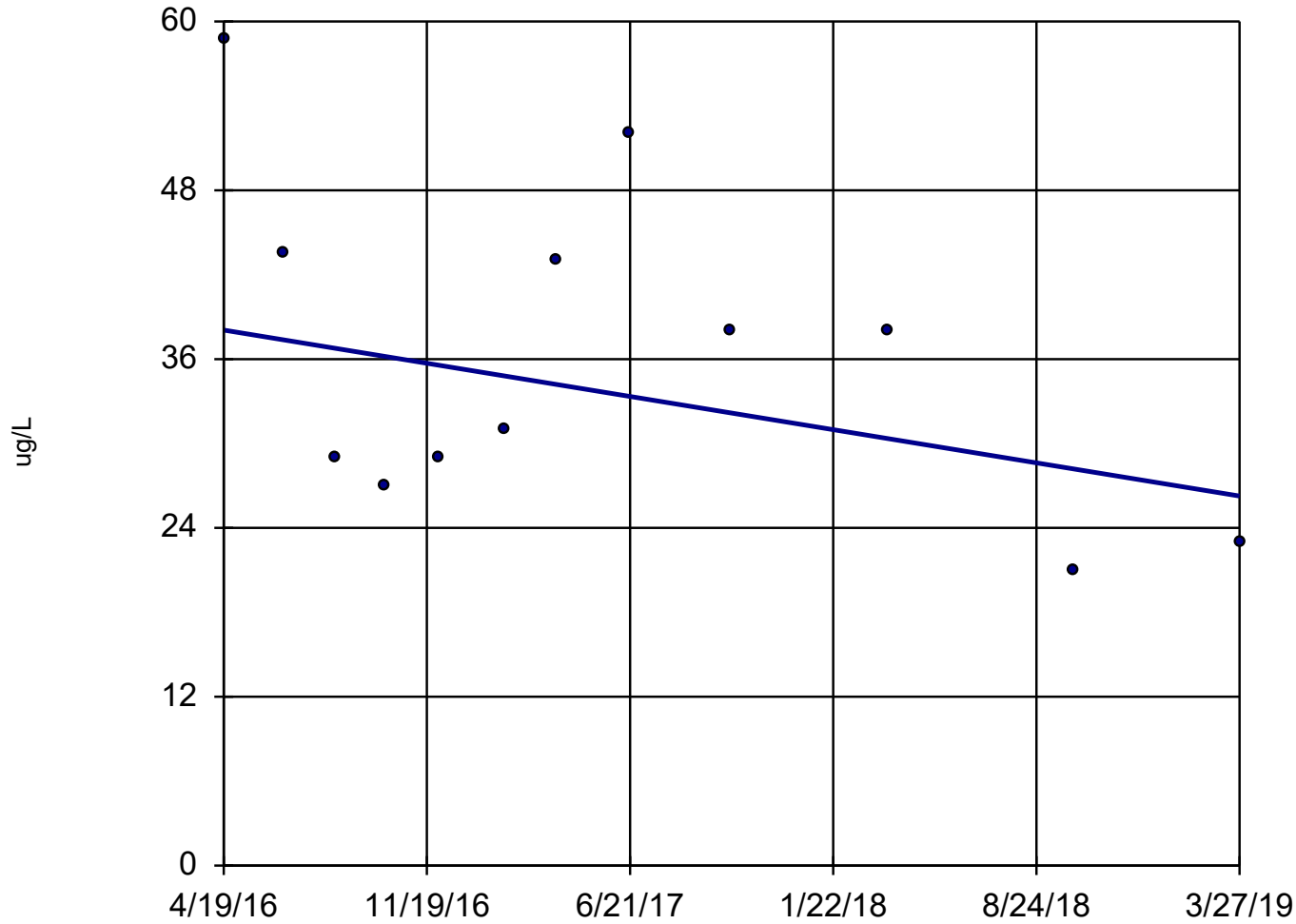
Mann-Kendall  
statistic = -22  
critical = -38

Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

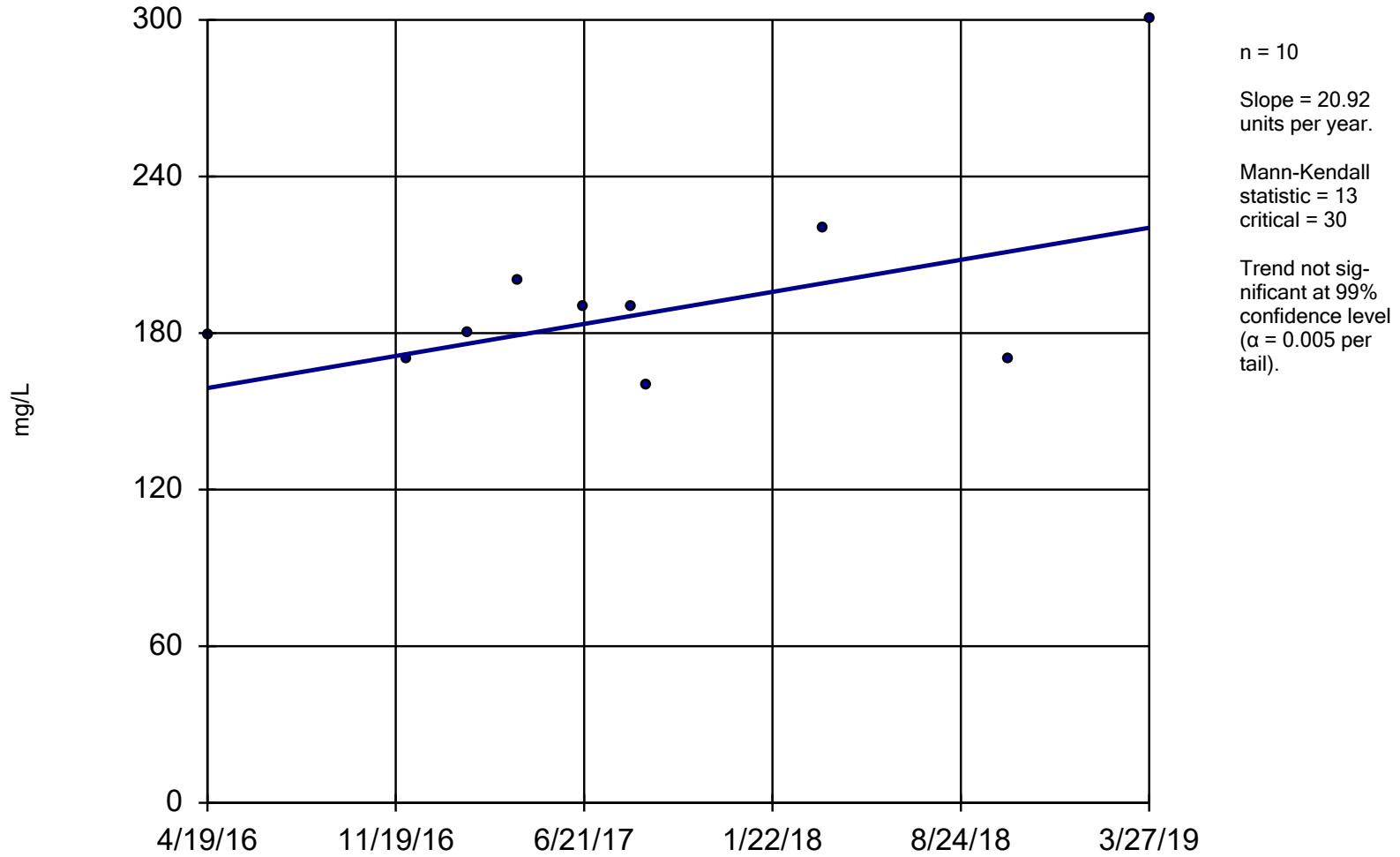
## Sen's Slope Estimator GWC-5



n = 12  
Slope = -4.017  
units per year.  
Mann-Kendall  
statistic = -18  
critical = -38  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Selenium, Total    Analysis Run 8/26/2019 1:02 PM    View: Cell 1 Trend  
Scherer    Client: Golder Associates    Data: Scherer Cell 1 LF

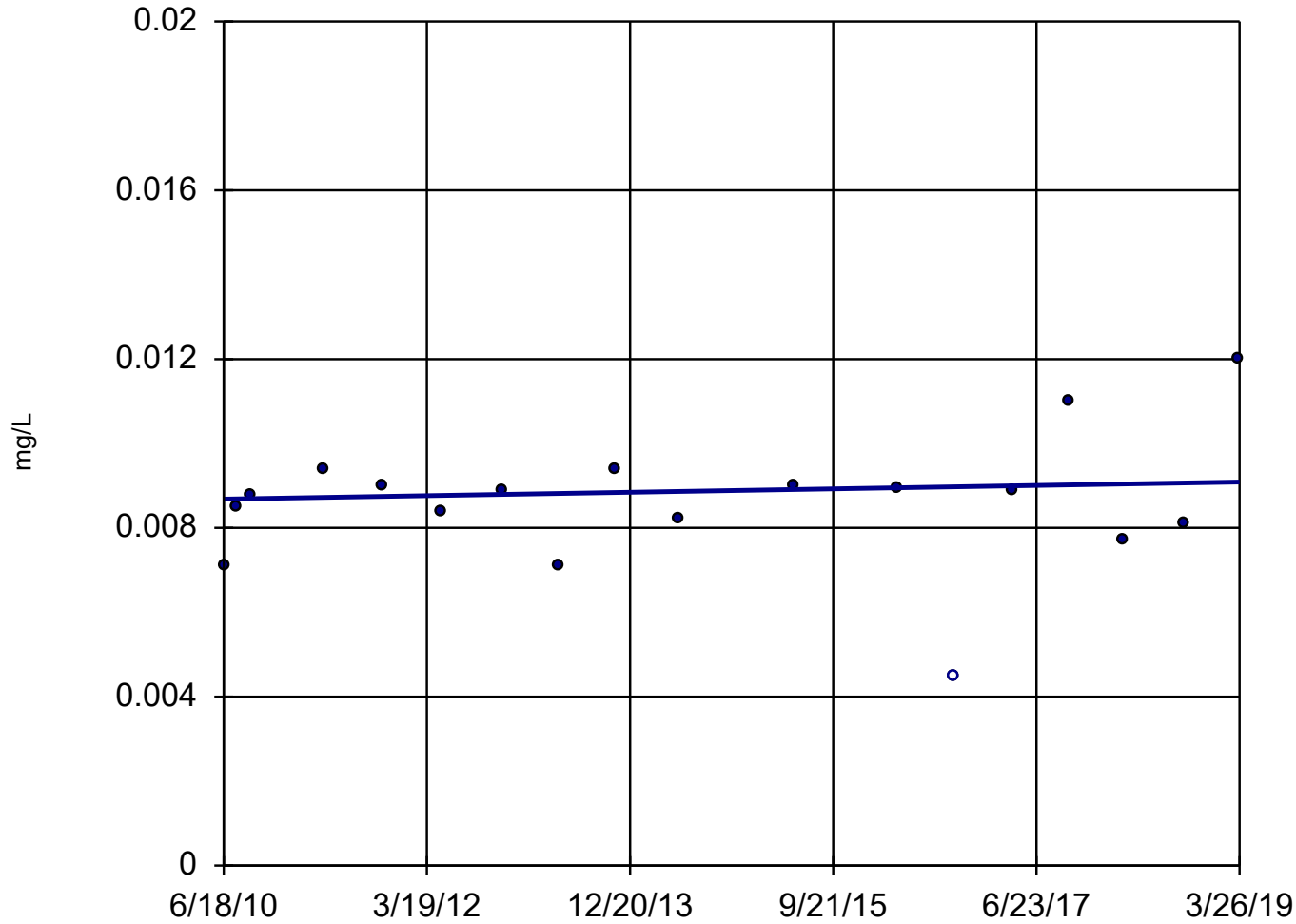
### Sen's Slope Estimator GWC-8A



Constituent: Total Dissolved Solids Analysis Run 7/25/2019 9:25 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

## Sen's Slope Estimator GWC-6



n = 18

Slope = 0.00004603  
units per year.

Mann-Kendall  
statistic = 15  
critical = 68

Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium Analysis Run 7/25/2019 2:47 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

**STATISTICAL ANALYSES REPORTS**

# PAC ASH CELL

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	GWA-45	0.0563	n/a	3/27/2019	0.057	Yes	24	0	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-52	0.01517	n/a	3/28/2019	0.019	Yes	24	4.167	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-29	3.181	n/a	3/28/2019	3.2	Yes	11	9.091	None	x^2	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-51	0.5	n/a	3/27/2019	2.7	Yes	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-52	25.5	n/a	3/28/2019	29	Yes	10	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-46	0.005981	n/a	3/27/2019	0.0072	Yes	18	22.22	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-48	0.02102	n/a	3/27/2019	0.022	Yes	18	5.556	None	x^2	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-29	0.006698	n/a	3/28/2019	0.0079	Yes	19	10.53	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-50	0.004554	n/a	3/28/2019	0.0053	Yes	19	47.37	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-51	0.006449	n/a	3/27/2019	0.0087	Yes	19	26.32	Kapla...	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	GWA-21	0.0291	n/a	3/27/2019	0.024	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-22	0.03036	n/a	3/27/2019	0.022	No	24	0	None	No	0.000...	Param Intra 1 of 2
<b>Barium, Total (mg/L)</b>	<b>GWA-45</b>	<b>0.0563</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>0.057</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Barium, Total (mg/L)	GWA-46	0.02155	n/a	3/27/2019	0.021	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-47	0.04859	n/a	3/27/2019	0.026	No	23	0	None	x^(1/3)	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-48	0.031	n/a	3/27/2019	0.013	No	22	0	n/a	n/a	0.003707	NP Intra (normality) ...
Barium, Total (mg/L)	GWA-49	0.02212	n/a	3/27/2019	0.019	No	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-29	0.01822	n/a	3/28/2019	0.017	No	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-50	0.0141	n/a	3/28/2019	0.012	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-51	0.013	n/a	3/27/2019	0.011	No	24	4.167	n/a	n/a	0.003124	NP Intra (normality) ...
Barium, Total (mg/L)	GWC-52	0.0143	n/a	3/28/2019	0.014	No	23	0	None	x^2	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-53	0.1153	n/a	3/28/2019	0.045	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Beryllium, Total (mg/L)	GWA-21	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-22	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-45	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-46	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-47	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-48	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-49	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-29	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-50	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-51	0.0015	n/a	3/27/2019	0.00017ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-52	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-53	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-21	0.05	n/a	3/27/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-22	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-45	1.188	n/a	3/27/2019	0.74	No	11	0	None	No	0.000...	Param Intra 1 of 2
Boron (mg/L)	GWA-46	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-47	0.05	n/a	3/27/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-48	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-49	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-29	0.05	n/a	3/28/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-50	0.021	n/a	3/28/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-51	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-52	0.021	n/a	3/28/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-53	1.147	n/a	3/28/2019	0.97	No	11	0	None	No	0.000...	Param Intra 1 of 2
Cadmium, Total (mg/L)	GWA-21	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-22	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-45	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-46	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-47	0.00034	n/a	3/27/2019	0.00017ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-48	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-49	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-29	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-50	0.0025	n/a	3/28/2019	0.00017ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-51	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-52	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-53	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Calcium (mg/L)	GWA-21	11.9	n/a	3/27/2019	9.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-22	9.74	n/a	3/27/2019	7.1	No	11	0	None	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-45	47.27	n/a	3/27/2019	39	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-46	7.16	n/a	3/27/2019	6.1	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-47	11.88	n/a	3/27/2019	11	No	11	0	None	x^4	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-48	14.4	n/a	3/27/2019	13	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-49	15.47	n/a	3/27/2019	15	No	10	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-29	11.28	n/a	3/28/2019	11	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-50	8.2	n/a	3/28/2019	7.2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-51	7.921	n/a	3/27/2019	7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-52	16.36	n/a	3/28/2019	15	No	9	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-53	21.56	n/a	3/28/2019	18	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-21	4.485	n/a	3/27/2019	2.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-22	5.74	n/a	3/27/2019	2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-45	10	n/a	3/27/2019	9.6	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
Chloride (mg/L)	GWA-46	4.119	n/a	3/27/2019	3.7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-47	1.777	n/a	3/27/2019	1.2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-48	2.015	n/a	3/27/2019	1.5	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-49	2.462	n/a	3/27/2019	1.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-29	4.326	n/a	3/28/2019	2.8	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-50	2.1	n/a	3/28/2019	1.8	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
Chloride (mg/L)	GWC-51	7.124	n/a	3/27/2019	7	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-52	8.716	n/a	3/28/2019	7.5	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-53	12	n/a	3/28/2019	12	No	10	0	n/a	n/a	0.01476	NP Intra (normality) ...
Chromium, Total (mg/L)	GWA-21	0.00879	n/a	3/27/2019	0.003	No	24	16.67	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-22	0.01121	n/a	3/27/2019	0.0078	No	23	4.348	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-45	0.0011	n/a	3/27/2019	0.00055ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium, Total (mg/L)	GWA-46	0.007978	n/a	3/27/2019	0.0048	No	24	4.167	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-47	0.045	n/a	3/27/2019	0.0081	No	24	8.333	n/a	n/a	0.003124	NP Intra (normality) ...
Chromium, Total (mg/L)	GWA-48	0.02309	n/a	3/27/2019	0.0051	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-49	0.009341	n/a	3/27/2019	0.0056	No	24	4.167	None	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-29	0.004371	n/a	3/28/2019	0.0012	No	23	39.13	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-50	0.006294	n/a	3/28/2019	0.0043	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-51	0.005674	n/a	3/27/2019	0.0044	No	24	12.5	None	No	0.000...	Param Intra 1 of 2
<b>Chromium, Total (mg/L)</b>	<b>GWC-52</b>	<b>0.01517</b>	<b>n/a</b>	<b>3/28/2019</b>	<b>0.019</b>	<b>Yes</b>	<b>24</b>	<b>4.167</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chromium, Total (mg/L)	GWC-53	0.00407	n/a	3/28/2019	0.00055ND	No	23	39.13	Kapla...	No	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-21	0.005	n/a	3/27/2019	0.0002ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-22	0.005	n/a	3/27/2019	0.0002ND	No	23	78.26	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-45	0.01014	n/a	3/27/2019	0.00083	No	24	29.17	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-46	0.005	n/a	3/27/2019	0.0002ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-47	0.005	n/a	3/27/2019	0.0002ND	No	22	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-48	0.005	n/a	3/27/2019	0.0002ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-49	0.005	n/a	3/27/2019	0.0002ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-29	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-50	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-51	0.0004	n/a	3/27/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-52	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-53	0.01651	n/a	3/28/2019	0.011	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Fluoride (mg/L)	GWA-21	0.15	n/a	3/27/2019	0.035	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-22	0.082	n/a	3/27/2019	0.036	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-45	0.15	n/a	3/27/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-46	0.15	n/a	3/27/2019	0.033	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2



# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-47	0.082	n/a	3/27/2019	0.041	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-48	0.15	n/a	3/27/2019	0.04	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-49	0.15	n/a	3/27/2019	0.037	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-29	0.15	n/a	3/28/2019	0.033	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-50	0.15	n/a	3/28/2019	0.042	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-51	0.15	n/a	3/27/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-52	0.082	n/a	3/28/2019	0.039	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-53	0.082	n/a	3/28/2019	0.013ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-21	0.0044	n/a	3/27/2019	0.000175ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-22	0.0048	n/a	3/27/2019	0.000175ND	No	24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.000175ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-46	0.0037	n/a	3/27/2019	0.000175ND	No	24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-47	0.0062	n/a	3/27/2019	0.000175ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-48	0.0064	n/a	3/27/2019	0.000175ND	No	24	66.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-49	0.0062	n/a	3/27/2019	0.000175ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-29	0.0038	n/a	3/28/2019	0.000175ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-50	0.0043	n/a	3/28/2019	0.000175ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-51	0.0035	n/a	3/27/2019	0.000175ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-52	0.006	n/a	3/28/2019	0.000175ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-53	0.00035	n/a	3/28/2019	0.000175ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-21	0.00025	n/a	3/27/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-22	0.00025	n/a	3/27/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-45	0.00025	n/a	3/27/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-46	0.00025	n/a	3/27/2019	0.000035ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-47	0.00025	n/a	3/27/2019	0.000035ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-48	0.00025	n/a	3/27/2019	0.000035ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-49	0.00025	n/a	3/27/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-29	0.00025	n/a	3/28/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-50	0.00025	n/a	3/28/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-51	0.00007	n/a	3/27/2019	0.000035ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-52	0.00025	n/a	3/28/2019	0.000035ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-53	0.00007	n/a	3/28/2019	0.000035ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-21	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-22	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-45	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-46	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-47	0.022	n/a	3/27/2019	0.0009ND	No	19	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-48	0.016	n/a	3/27/2019	0.0009ND	No	19	52.63	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-49	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-29	0.0042	n/a	3/28/2019	0.0038	No	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-50	0.0018	n/a	3/28/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-51	0.005	n/a	3/27/2019	0.0024	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-52	0.0018	n/a	3/28/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-53	0.008773	n/a	3/28/2019	0.0069	No	18	5.556	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-21	5.99	5.558	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-22	6.33	5.447	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-45	6.504	5.702	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-46	6.83	5.71	n/a	1 future	n/a	12	0	n/a	n/a	0.02155	NP Intra (normality) ...
pH (S.U.)	GWA-47	6.564	6.291	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-48	7.007	6.483	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWA-49	7.115	6.577	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-29	5.938	5.682	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-50	6.016	5.647	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-51	8.36	5.76	n/a	1 future	n/a	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-52	7.63	6.53	n/a	1 future	n/a	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-53	7.725	5.48	n/a	1 future	n/a	13	0	n/a	n/a	0.01938	NP Intra (normality) ...
Selenium, Total (mg/L)	GWA-21	0.00024	n/a	3/27/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-22	0.00024	n/a	3/27/2019	0.000355NDNo		21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.000355NDNo		20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-46	0.00024	n/a	3/27/2019	0.000355NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-47	0.00024	n/a	3/27/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-48	0.00024	n/a	3/27/2019	0.000355NDNo		21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-49	0.005	n/a	3/27/2019	0.000355NDNo		23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-29	0.01	n/a	3/28/2019	0.000355NDNo		23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-50	0.00024	n/a	3/28/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-51	0.00024	n/a	3/27/2019	0.000355NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-52	0.005	n/a	3/28/2019	0.000355NDNo		21	85.71	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-53	0.01	n/a	3/28/2019	0.000355NDNo		23	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-21	3.106	n/a	3/27/2019	0.81	No	11	9.091	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-22	0.7	n/a	3/27/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-45	185.4	n/a	3/27/2019	140	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-46	0.594	n/a	3/27/2019	0.52	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-47	0.7	n/a	3/27/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-48	1.665	n/a	3/27/2019	1.6	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-49	0.507	n/a	3/27/2019	0.56	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GWC-29</b>	<b>3.181</b>	<b>n/a</b>	<b>3/28/2019</b>	<b>3.2</b>	<b>Yes</b>	<b>11</b>	<b>9.091</b>	<b>None</b>	<b>x^2</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GWC-50	0.7	n/a	3/28/2019	0.38	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GWC-51</b>	<b>0.5</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>2.7</b>	<b>Yes</b>	<b>11</b>	<b>90.91</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01276</b>	<b>NP Intra (NDs) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GWC-52</b>	<b>25.5</b>	<b>n/a</b>	<b>3/28/2019</b>	<b>29</b>	<b>Yes</b>	<b>10</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GWC-53	185.5	n/a	3/28/2019	170	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-21	112.9	n/a	3/27/2019	98	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-22	119.3	n/a	3/27/2019	76	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-45	343.8	n/a	3/27/2019	290	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-46	90.32	n/a	3/27/2019	66	No	11	9.091	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-47	119	n/a	3/27/2019	94	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-48	123.6	n/a	3/27/2019	100	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-49	120.2	n/a	3/27/2019	120	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-29	142.7	n/a	3/28/2019	88	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-50	134.5	n/a	3/28/2019	65	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-51	105.1	n/a	3/27/2019	76	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-52	190.6	n/a	3/28/2019	140	No	11	0	None	sqrt(x)	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-53	334.1	n/a	3/28/2019	280	No	11	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-21	0.005	n/a	n/a	1 future	n/a	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-22	0.0052	n/a	n/a	1 future	n/a	19	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.0023	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
<b>Vanadium, Total (mg/L)</b>	<b>GWA-46</b>	<b>0.005981</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>0.0072</b>	<b>Yes</b>	<b>18</b>	<b>22.22</b>	<b>Kapla...</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Vanadium, Total (mg/L)	GWA-47	0.03362	n/a	3/27/2019	0.012	No	19	10.53	None	sqrt(x)	0.000...	Param Intra 1 of 2
<b>Vanadium, Total (mg/L)</b>	<b>GWA-48</b>	<b>0.02102</b>	<b>n/a</b>	<b>3/27/2019</b>	<b>0.022</b>	<b>Yes</b>	<b>18</b>	<b>5.556</b>	<b>None</b>	<b>x^2</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Vanadium, Total (mg/L)	GWA-49	0.02248	n/a	3/27/2019	0.021	No	19	0	None	No	0.000...	Param Intra 1 of 2
<b>Vanadium, Total (mg/L)</b>	<b>GWC-29</b>	<b>0.006698</b>	<b>n/a</b>	<b>3/28/2019</b>	<b>0.0079</b>	<b>Yes</b>	<b>19</b>	<b>10.53</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>

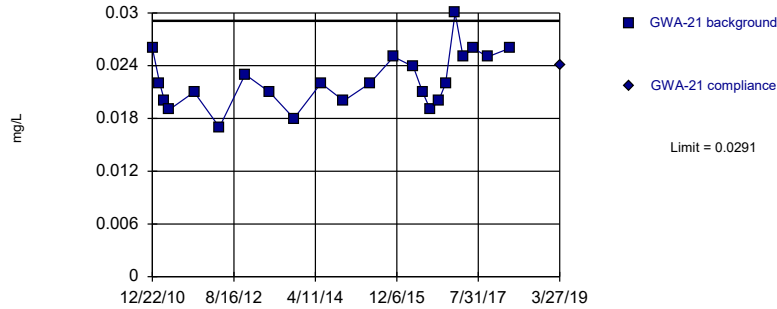
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
<b>Vanadium, Total (mg/L)</b>	<b>GWC-50</b>	<b>0.004554</b>	n/a	<b>3/28/2019</b>	<b>0.0053</b>	<b>Yes</b>	<b>19</b>	<b>47.37</b>	<b>Kapla...</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
<b>Vanadium, Total (mg/L)</b>	<b>GWC-51</b>	<b>0.006449</b>	n/a	<b>3/27/2019</b>	<b>0.0087</b>	<b>Yes</b>	<b>19</b>	<b>26.32</b>	<b>Kapla...</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Vanadium, Total (mg/L)	GWC-52	0.01414	n/a	3/28/2019	0.01	No	17	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-53	0.0065	n/a	3/28/2019	0.0041	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-21	0.0065	n/a	3/27/2019	0.00325ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-22	0.0065	n/a	3/27/2019	0.00325ND	No	17	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-45	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-46	0.01	n/a	3/27/2019	0.00325ND	No	18	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-47	0.01	n/a	3/27/2019	0.00325ND	No	17	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-48	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-49	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-29	0.0065	n/a	3/28/2019	0.00325ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-50	0.0065	n/a	3/28/2019	0.00325ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-51	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-52	0.01	n/a	3/28/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-53	0.01988	n/a	3/28/2019	0.013	No	18	0	None	No	0.000...	Param Intra 1 of 2

Within Limit

Prediction Limit  
Intrawell Parametric

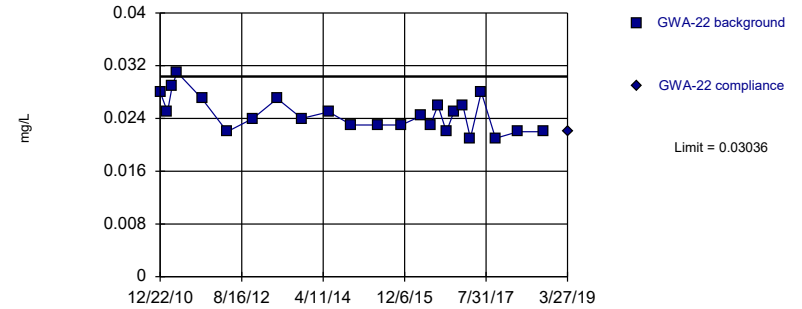


Background Data Summary: Mean=0.02234, Std. Dev.=0.003125, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9634, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

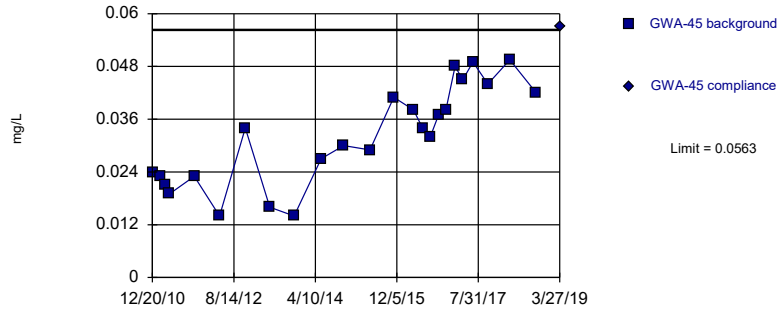


Background Data Summary: Mean=0.02464, Std. Dev.=0.002664, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

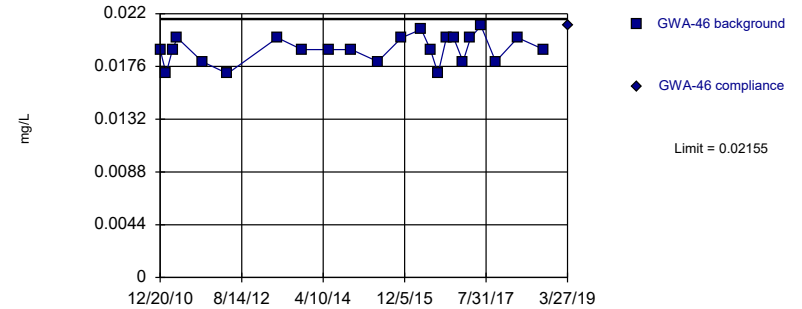


Background Data Summary: Mean=0.03215, Std. Dev.=0.01125, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

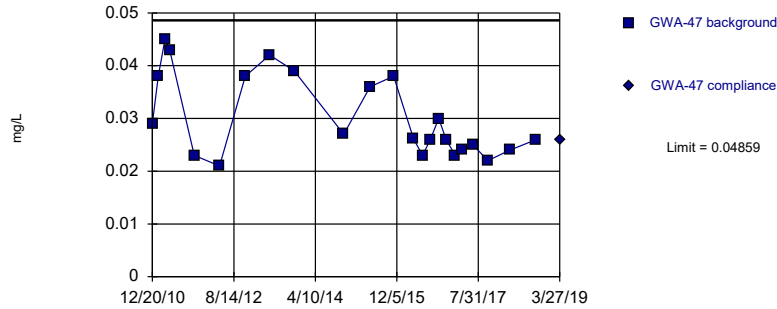
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01903, Std. Dev.=0.001165, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9149, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

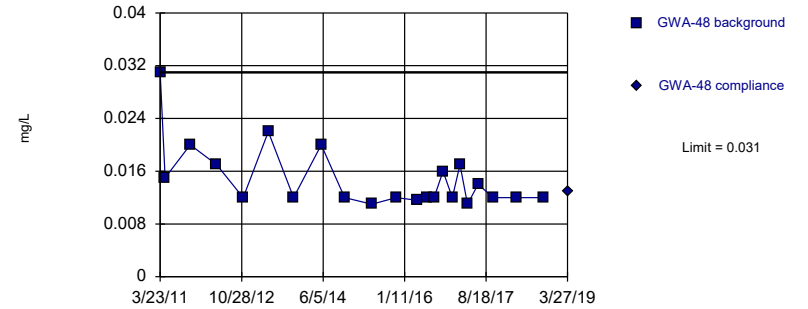
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3093, Std. Dev.=0.02571, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8825, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

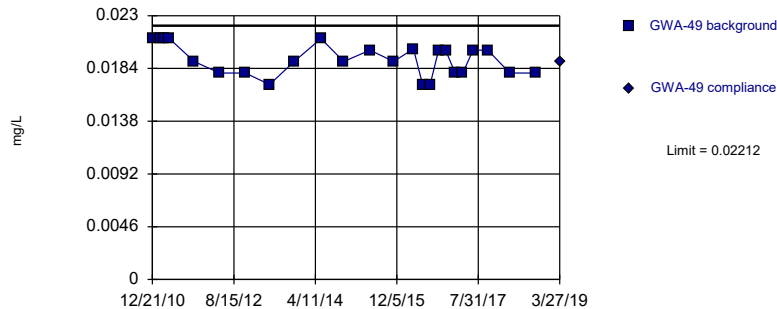
Within Limit Prediction Limit  
Intrawell Non-parametric



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. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

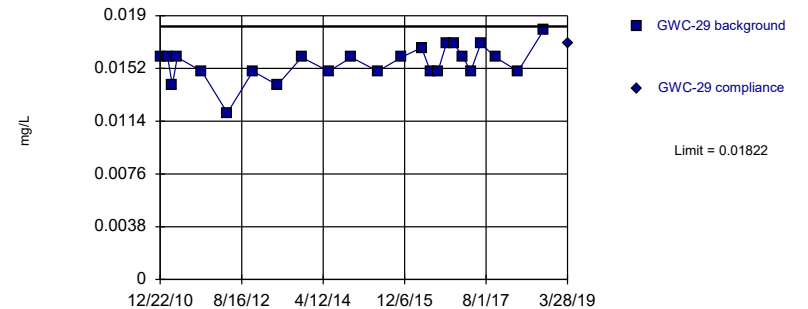
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01917, Std. Dev.=0.001375, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8973, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric

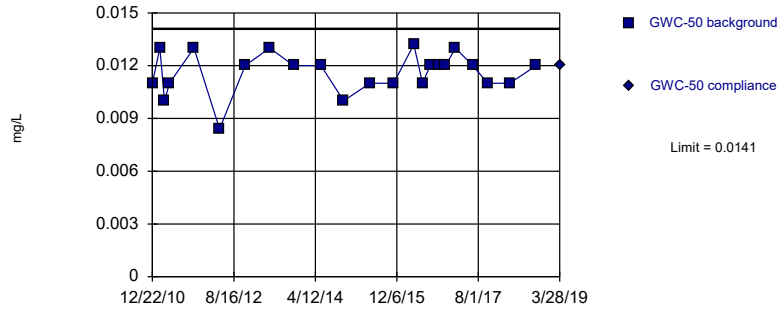


Background Data Summary: Mean=0.01557, Std. Dev.=0.001235, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9152, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

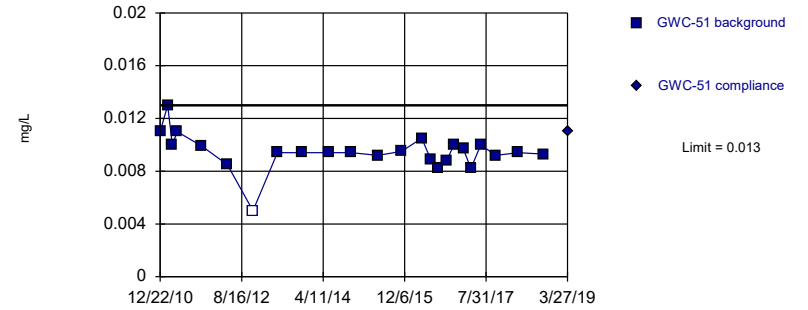


Background Data Summary: Mean=0.01159, Std. Dev.=0.001159, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

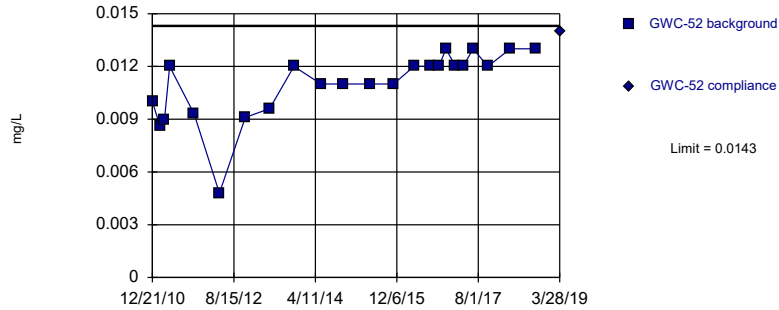


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 4.167% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

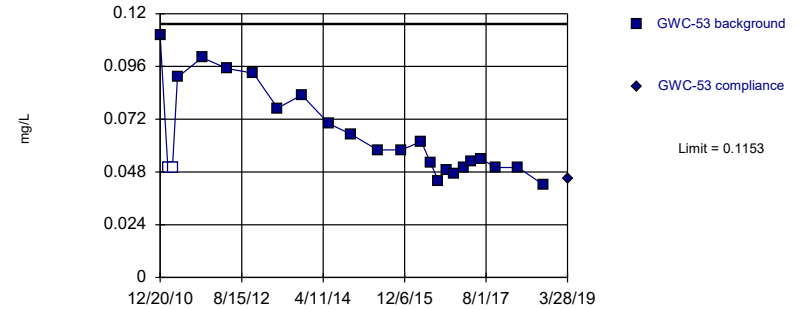


Background Data Summary (based on square transformation): Mean=0.000124, Std. Dev.=0.00003728, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8966, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

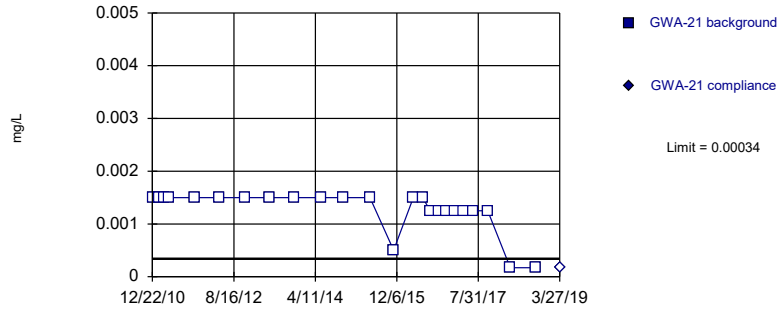


Background Data Summary (based on natural log transformation): Mean=-2.78, Std. Dev.=0.2886, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8947, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

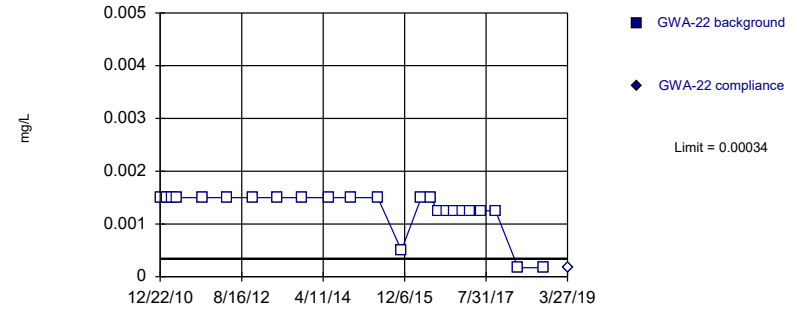


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

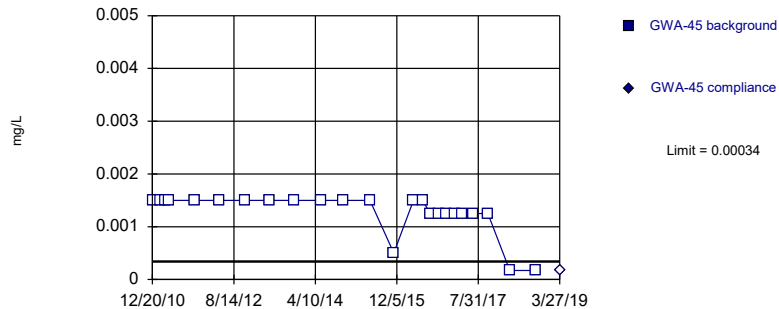


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

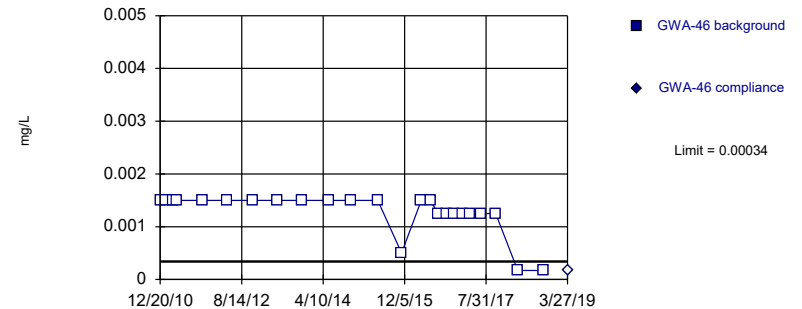


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

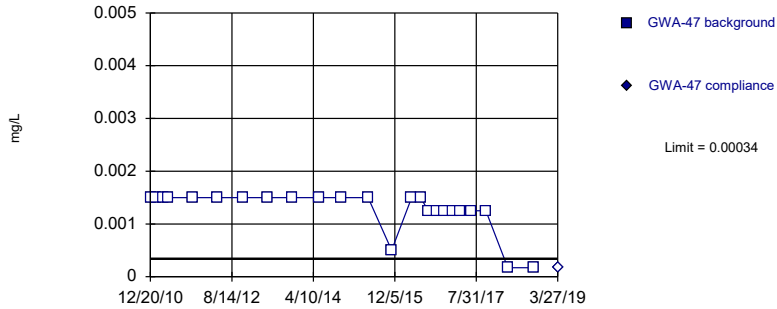


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

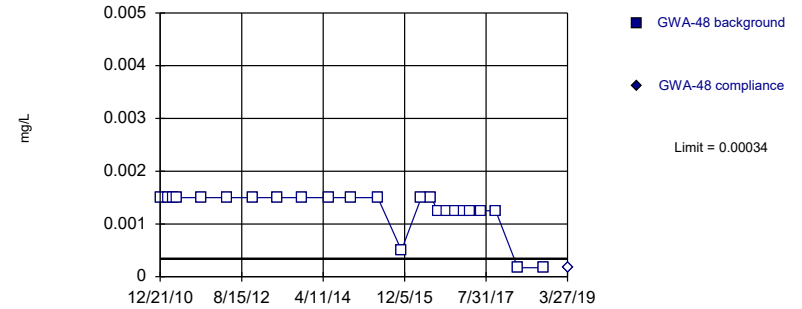


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

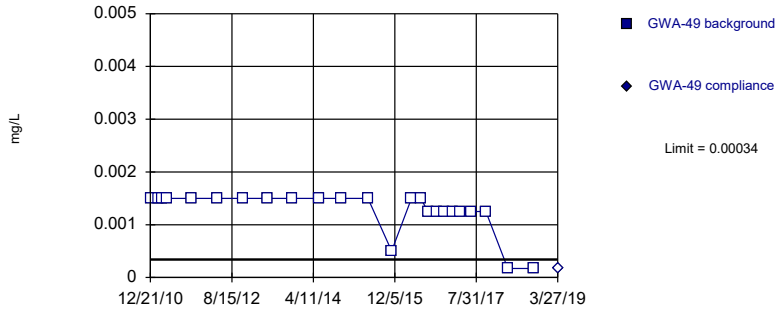


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

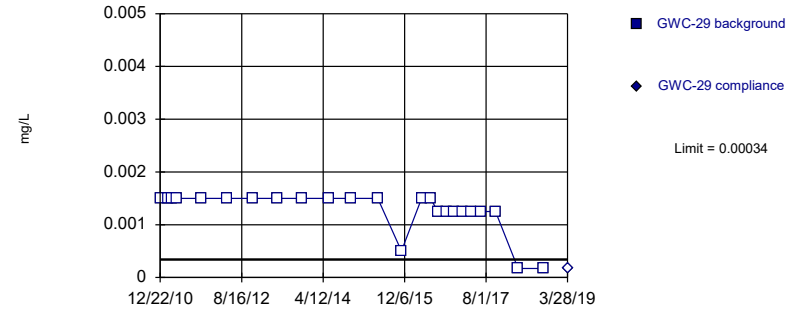


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



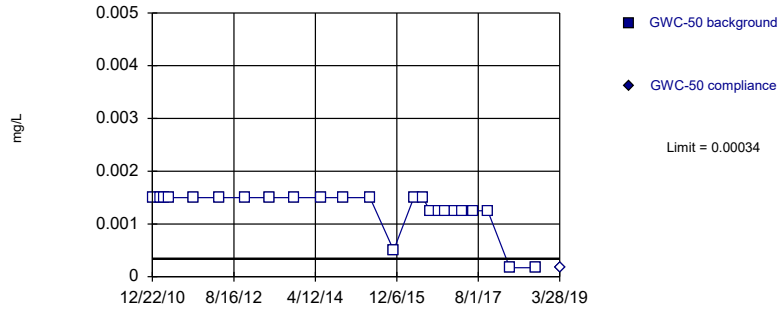
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Non-parametric

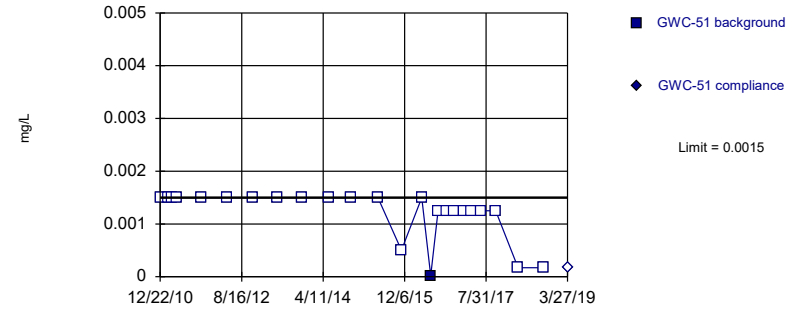


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

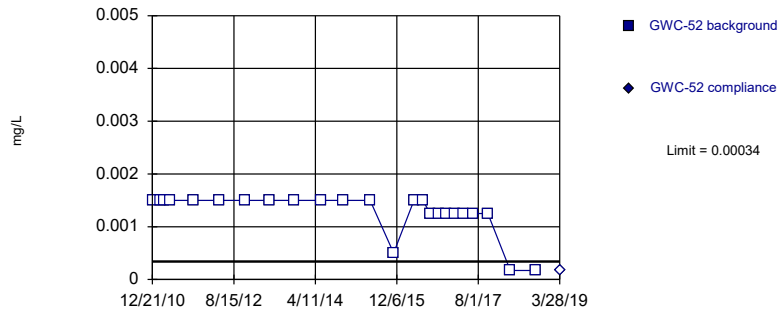


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

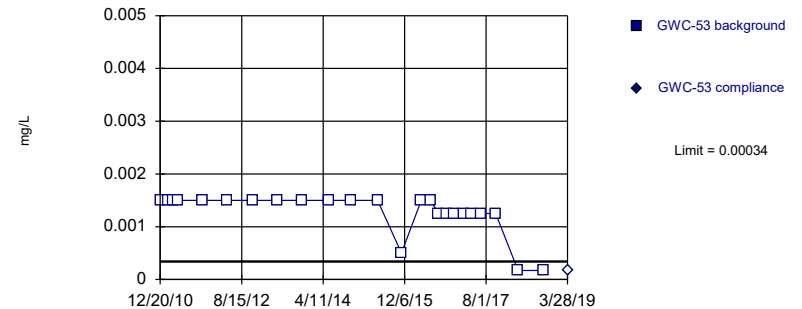


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

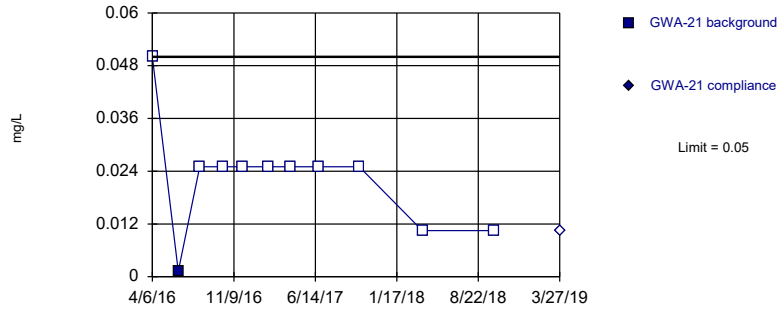
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

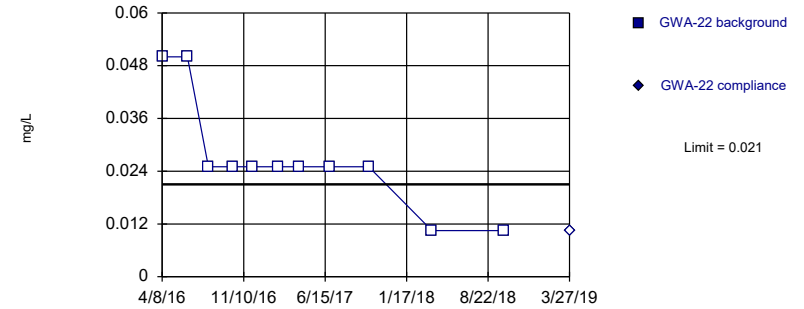
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

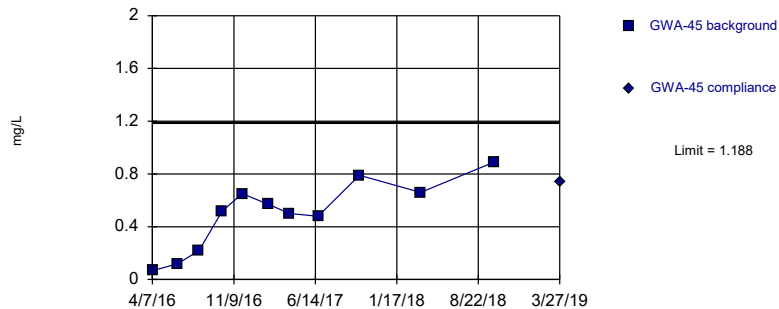
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

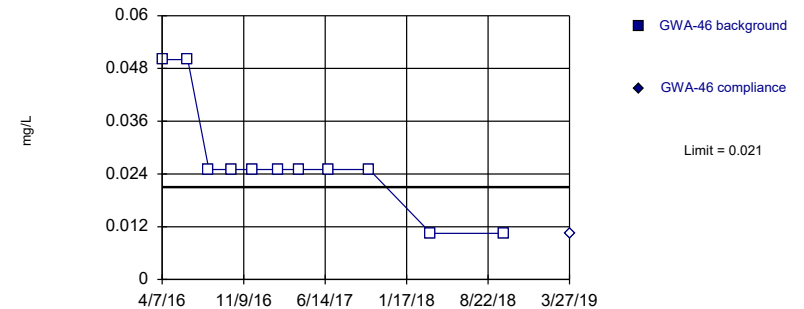
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.4969, Std. Dev.=0.2648, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric

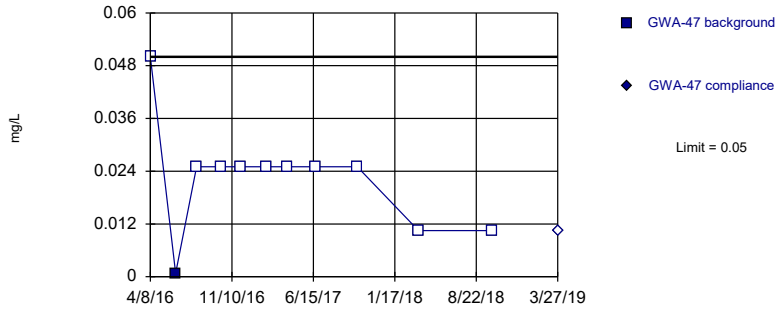


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

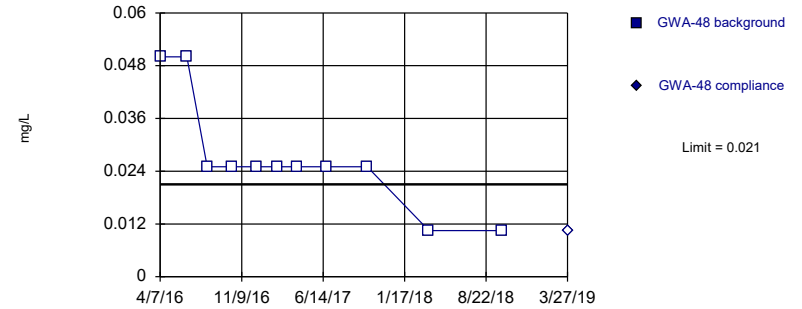


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

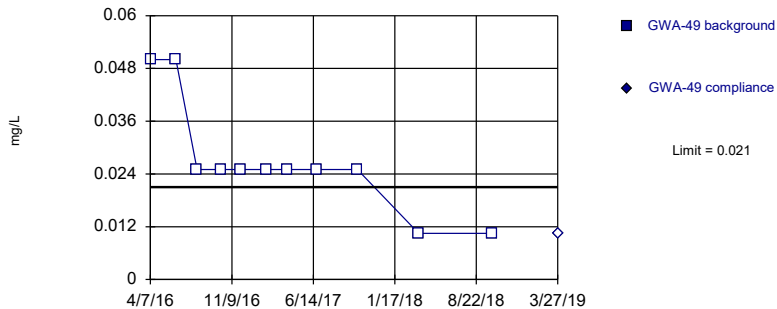


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

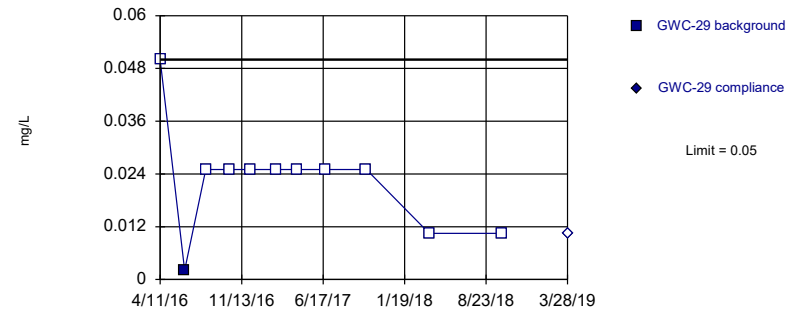


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

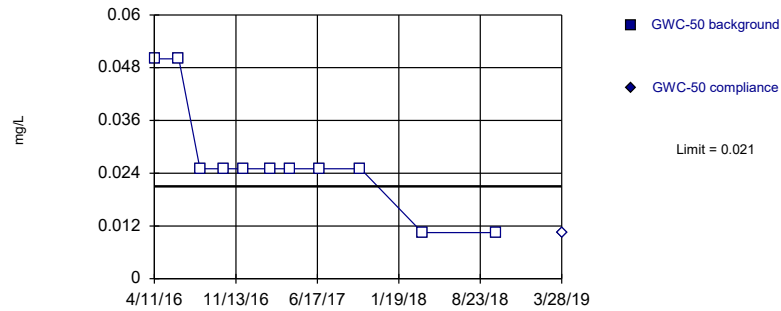
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

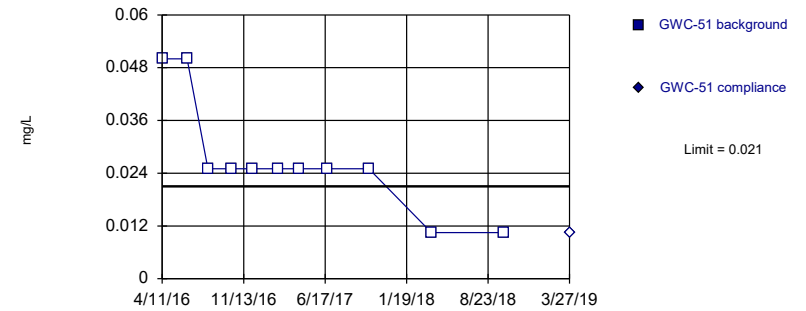
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

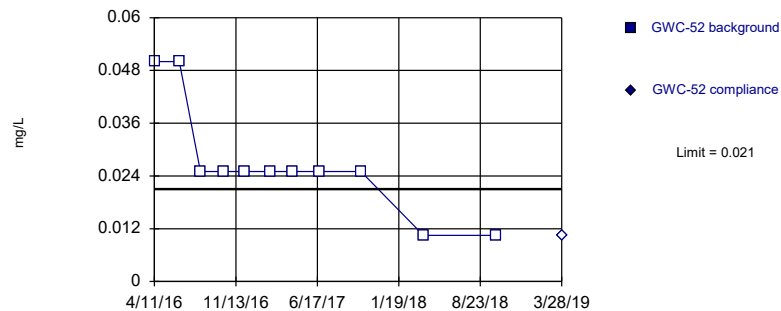
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

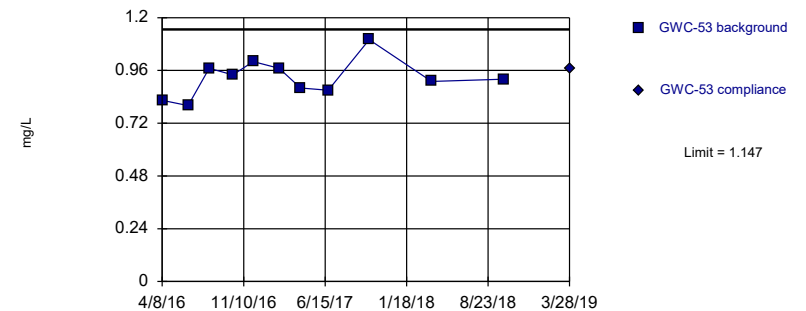
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric

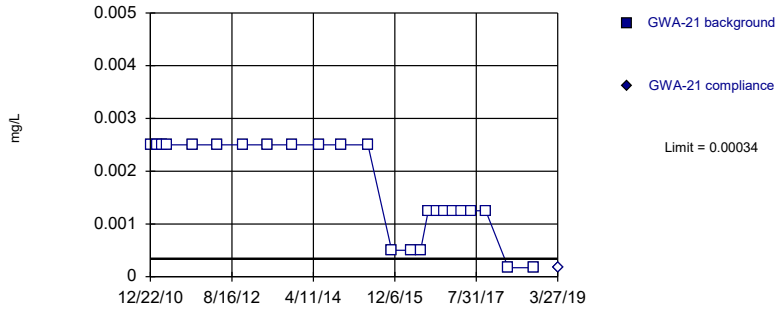


Background Data Summary: Mean=0.9258, Std. Dev.=0.08464, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

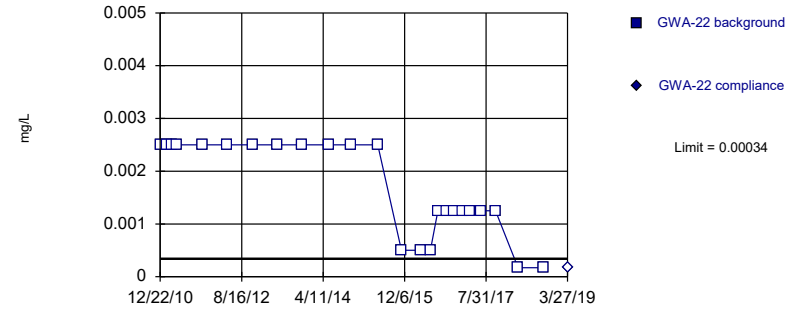


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

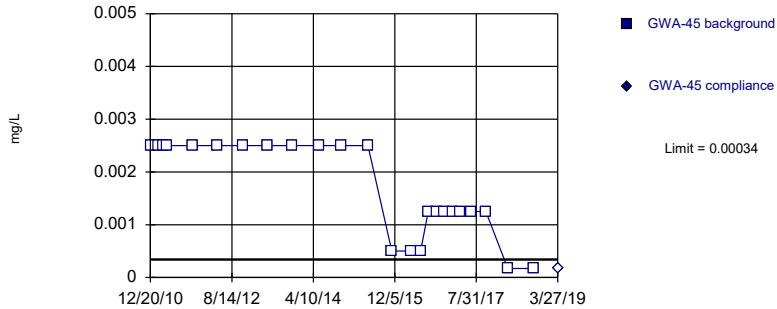


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

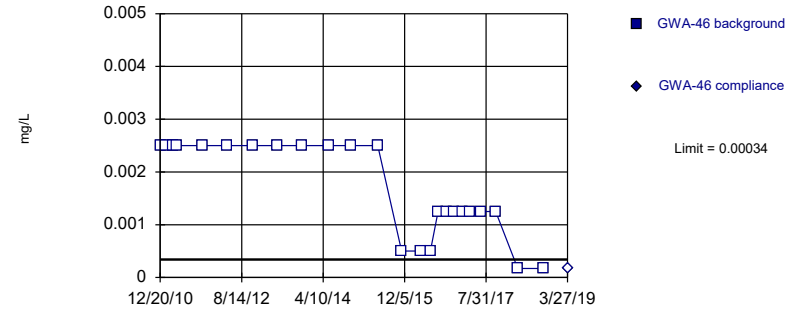


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

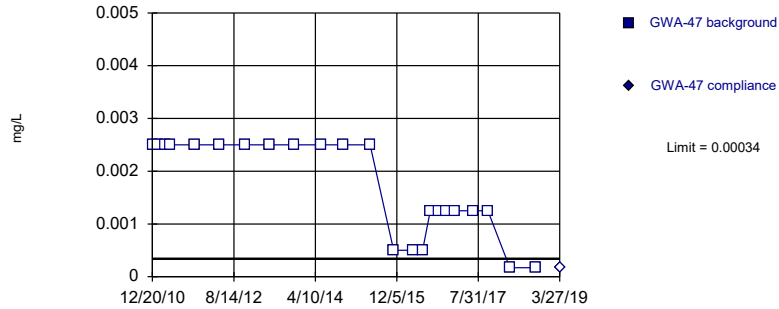


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

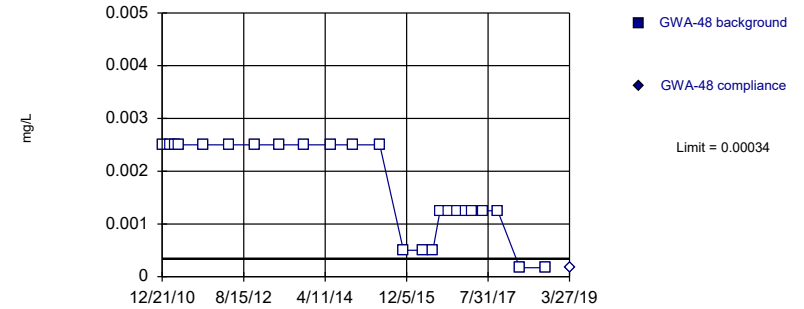


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

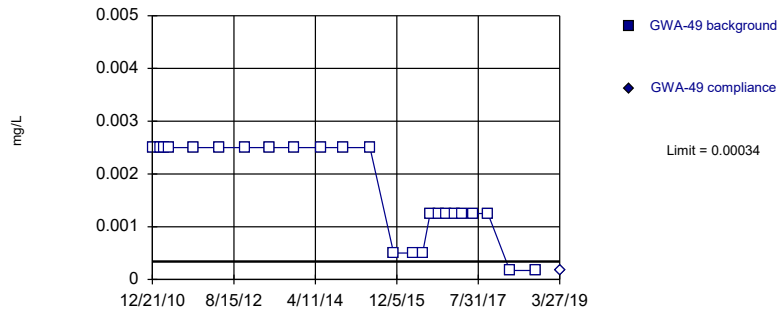


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

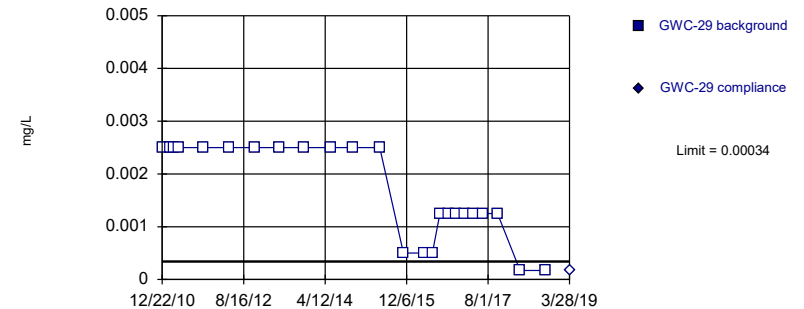


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

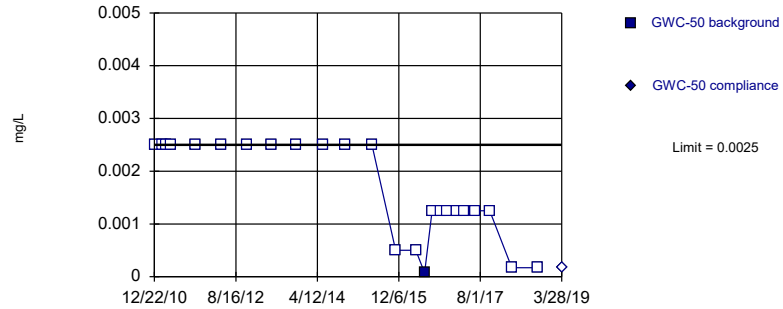


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

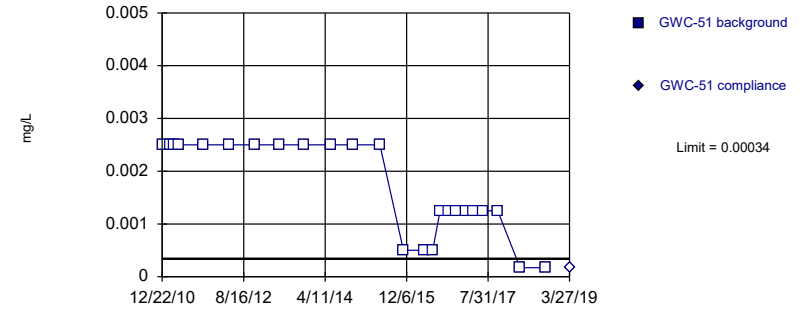


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

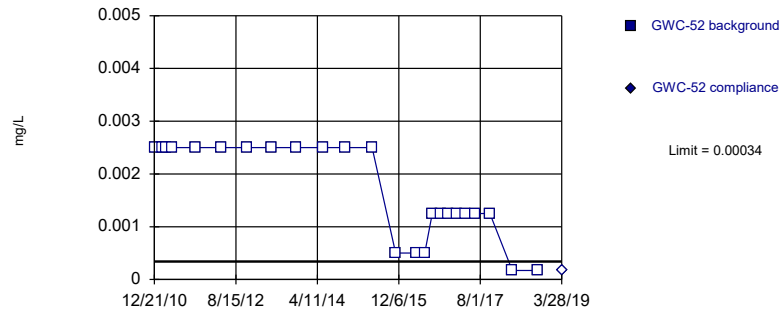


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

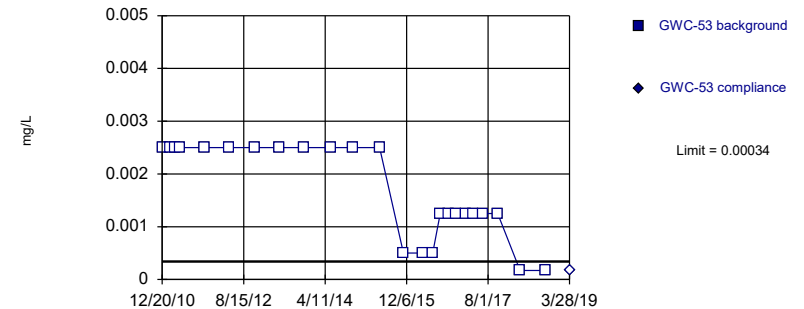


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

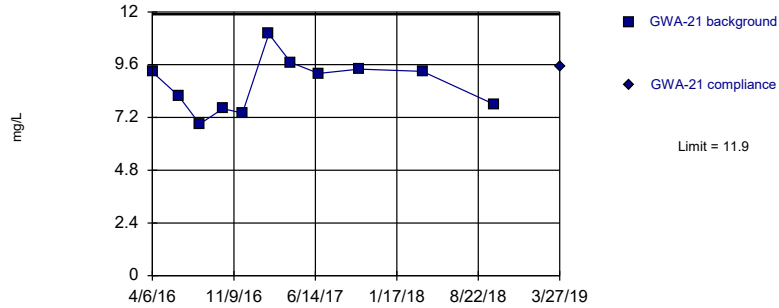


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

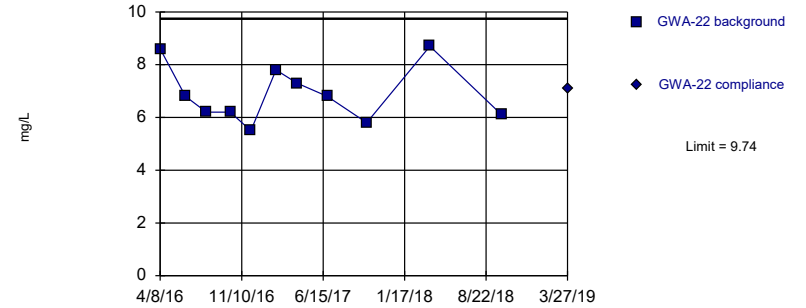


Background Data Summary: Mean=8.706, Std. Dev.=1.221, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

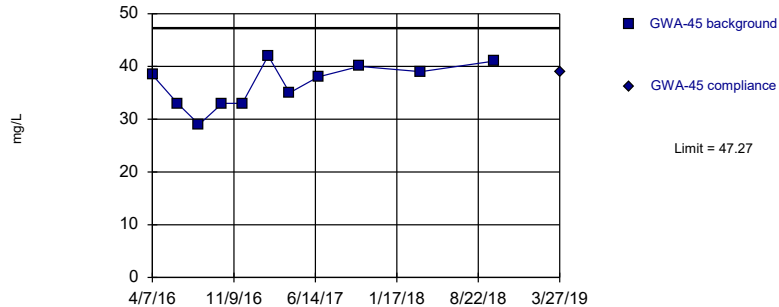


Background Data Summary: Mean=6.891, Std. Dev.=1.091, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

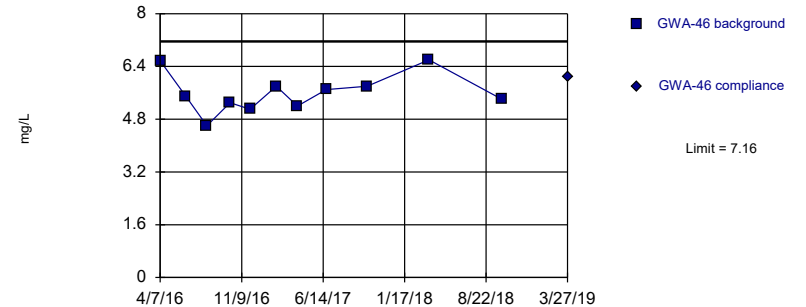


Background Data Summary: Mean=36.48, Std. Dev.=4.133, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

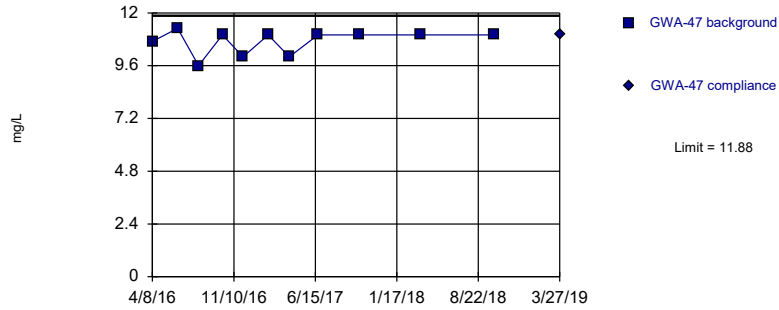


Background Data Summary: Mean=5.597, Std. Dev.=0.5984, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9408, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



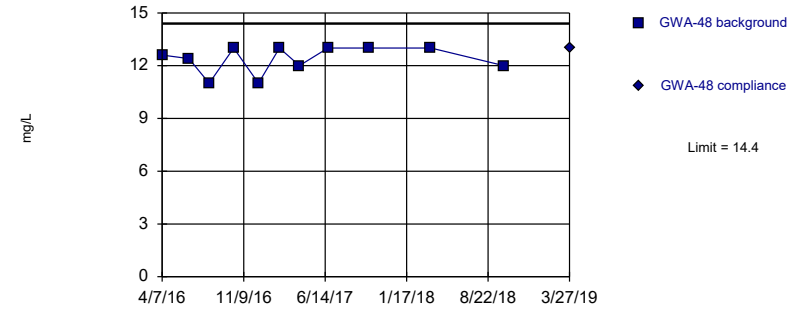
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on x<sup>4</sup> transformation): Mean=13250, Std. Dev.=2544, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.797, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

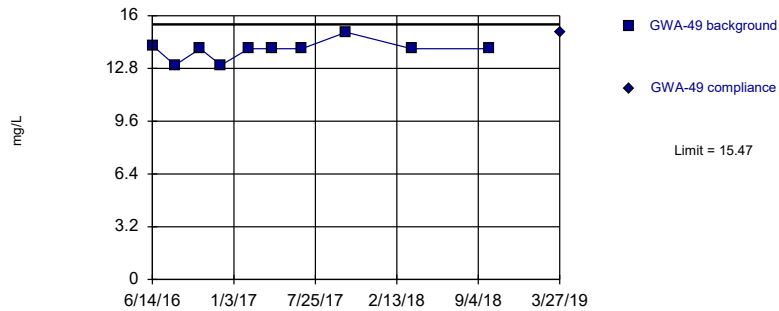
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=12.36, Std. Dev.=0.7788, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7935, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

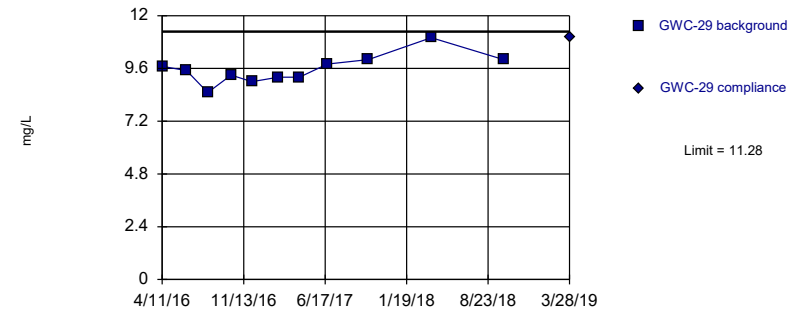
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=13.92, Std. Dev.=0.575, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

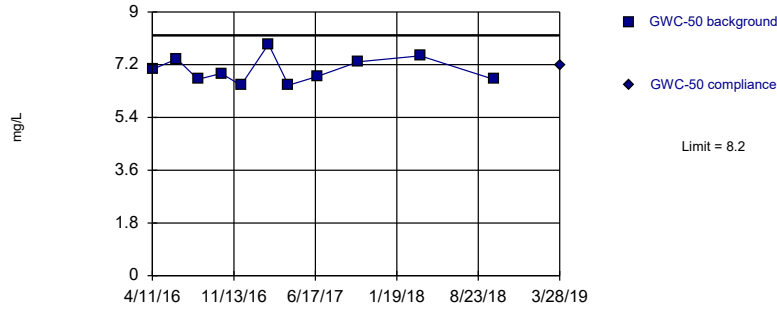
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=9.564, Std. Dev.=0.6562, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

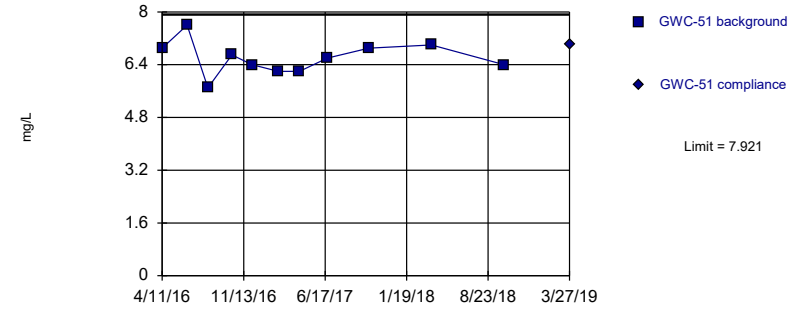
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.022, Std. Dev.=0.4513, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

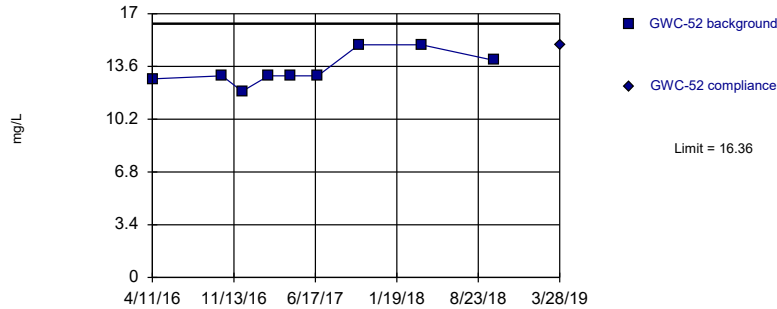
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.6, Std. Dev.=0.506, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

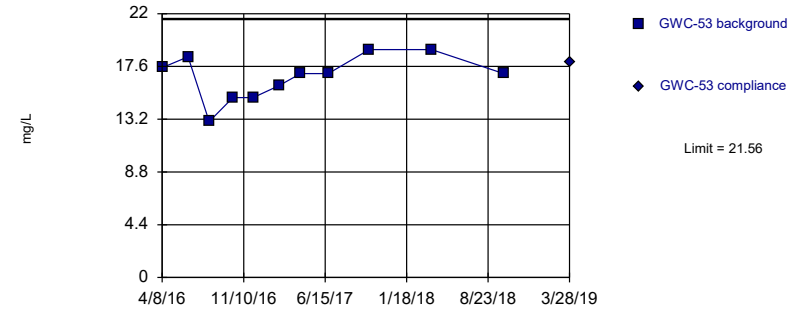
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=13.42, Std. Dev.=1.027, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.764. Kappa = 2.863 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

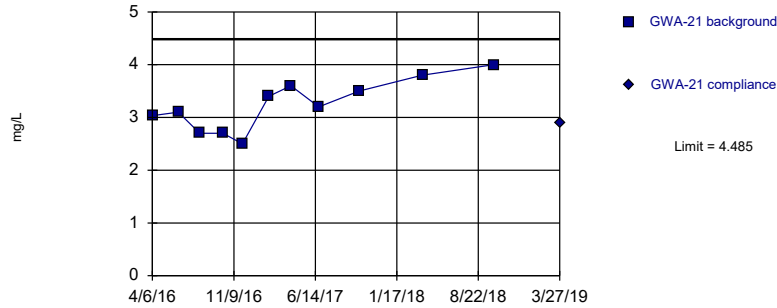
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=16.72, Std. Dev.=1.853, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

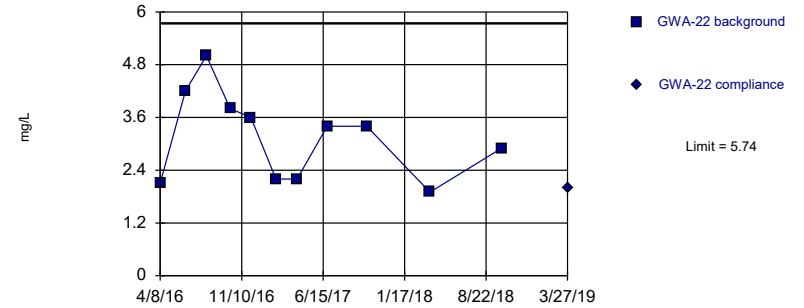
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.23, Std. Dev.=0.4804, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

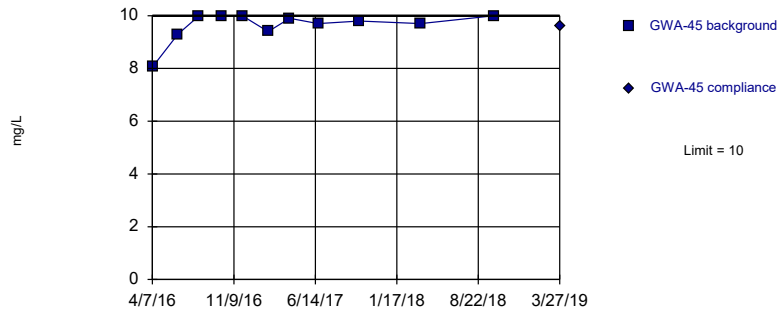
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.155, Std. Dev.=0.9903, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:19 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

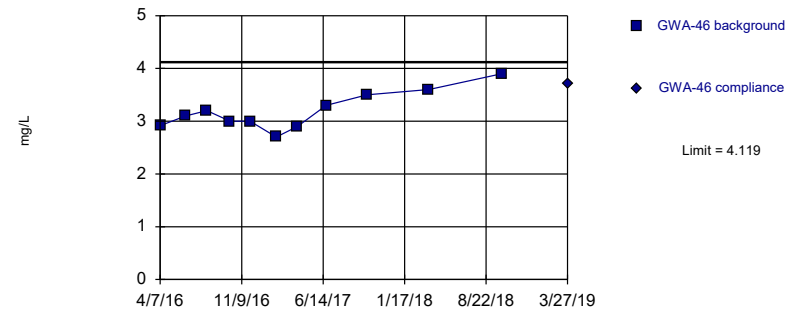
Within Limit Prediction Limit  
Intrawell Non-parametric



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 11 background values. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric



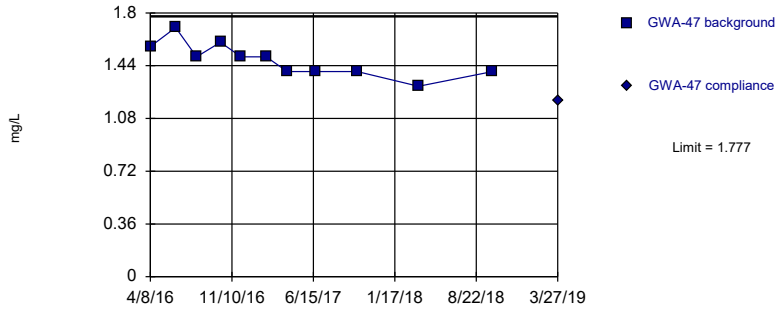
Background Data Summary: Mean=3.192, Std. Dev.=0.3551, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit

Intrawell Parametric



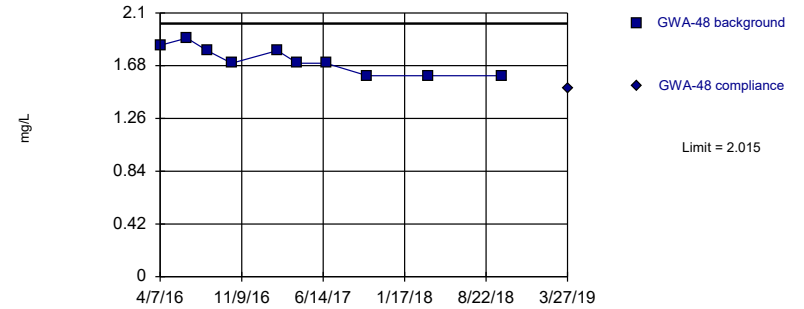
Background Data Summary: Mean=1.479, Std. Dev.=0.1141, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit

Intrawell Parametric



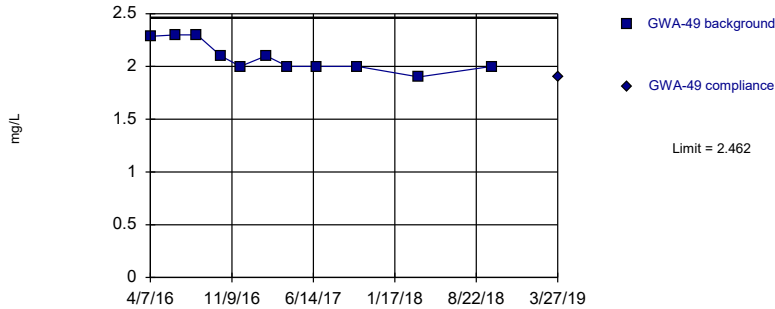
Background Data Summary: Mean=1.724, Std. Dev.=0.1077, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit

Intrawell Parametric



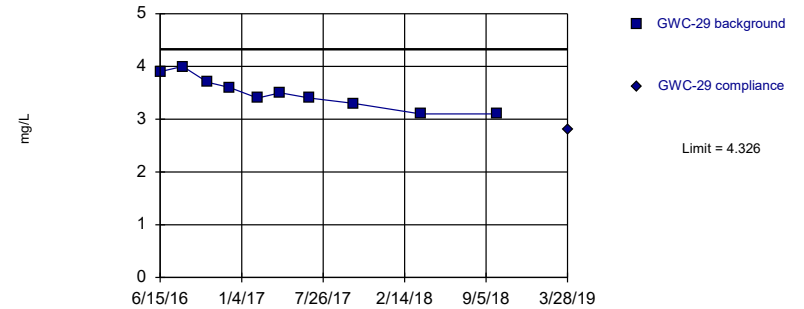
Background Data Summary: Mean=2.09, Std. Dev.=0.1425, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8245, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit

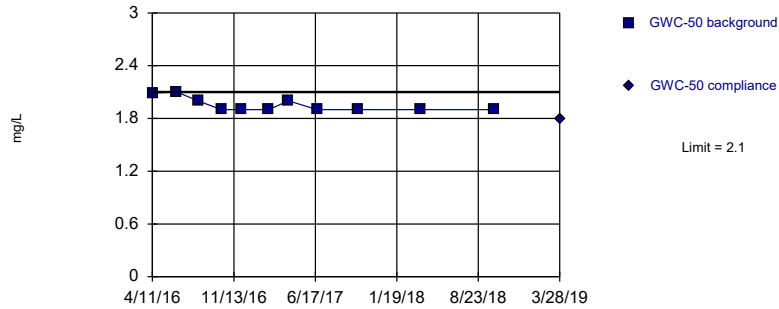
Intrawell Parametric



Background Data Summary: Mean=3.5, Std. Dev.=0.3055, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

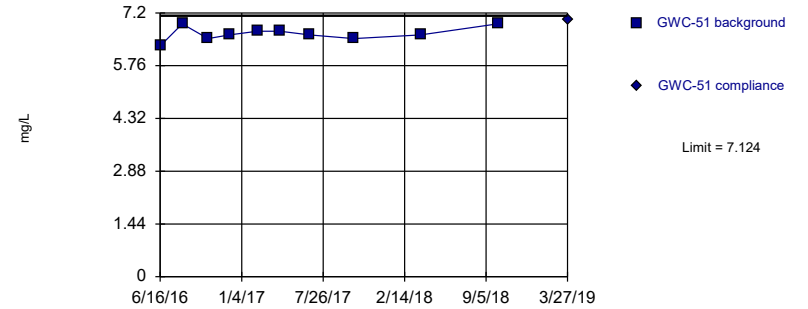
Within Limit Prediction Limit  
Intrawell Non-parametric



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 11 background values. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

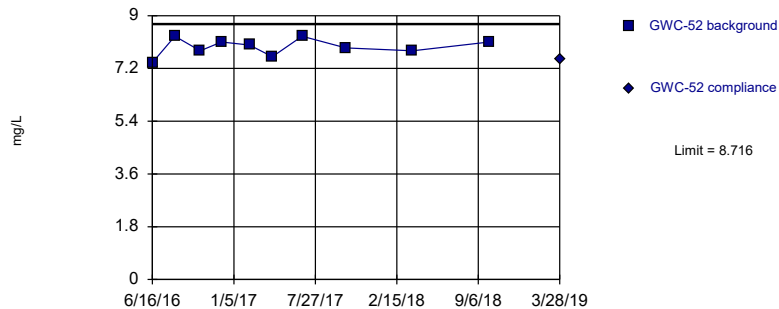
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.63, Std. Dev.=0.1829, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

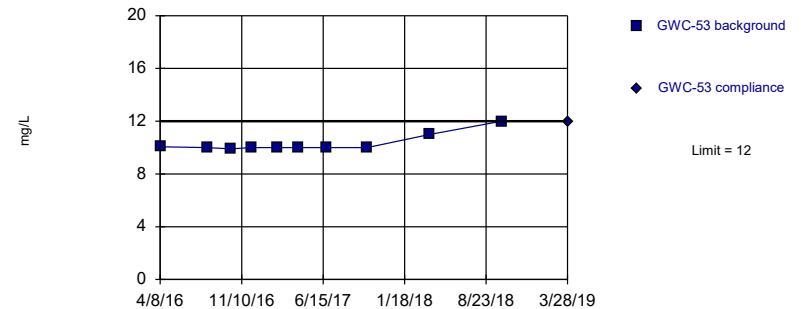
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.93, Std. Dev.=0.2908, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric

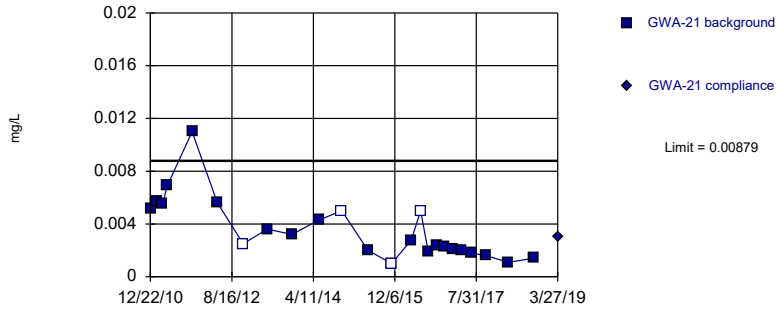


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. Well-constituent pair annual alpha = 0.0293. Individual comparison alpha = 0.01476 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Parametric

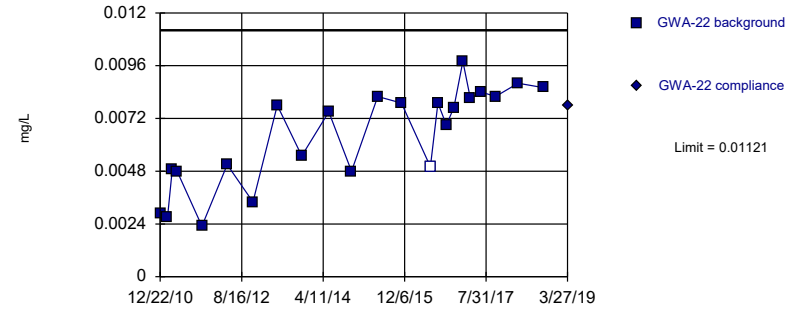


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05569, Std. Dev.=0.01773, n=24, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9343, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Parametric

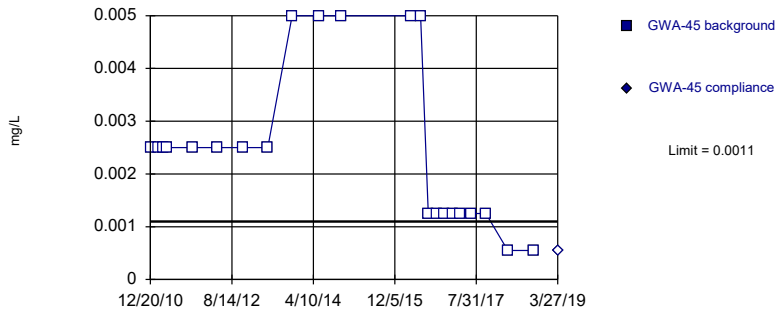


Background Data Summary: Mean=0.0064, Std. Dev.=0.002223, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

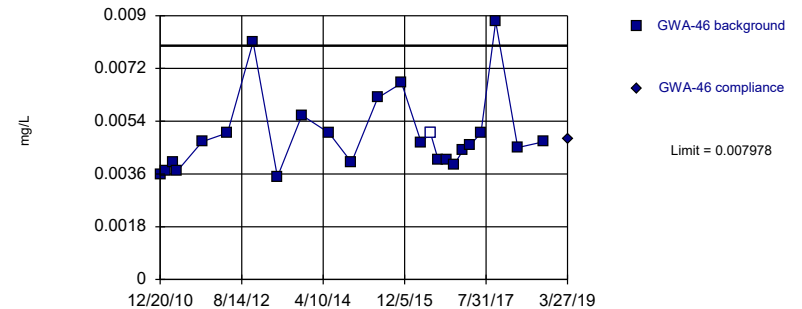


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Parametric

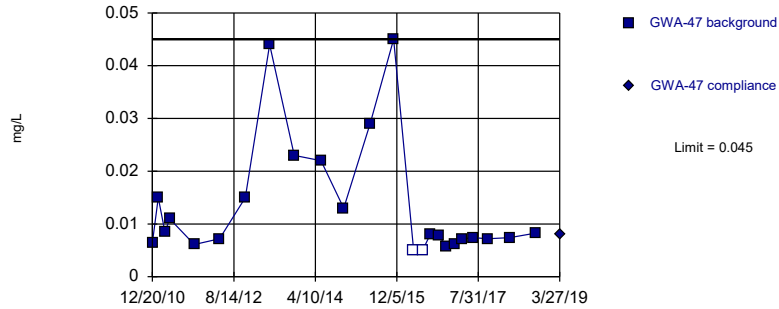


Background Data Summary (based on natural log transformation): Mean=-5.349, Std. Dev.=0.2412, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8955, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

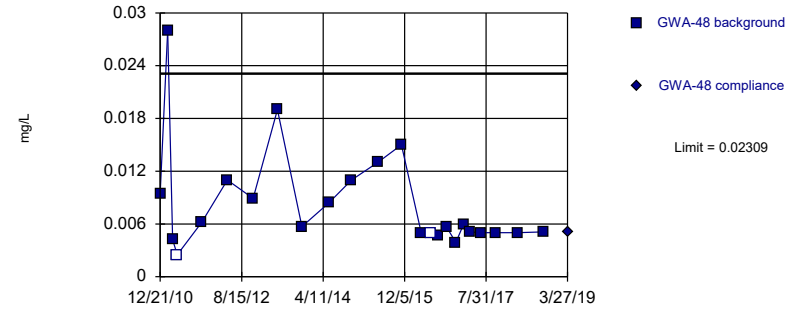


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

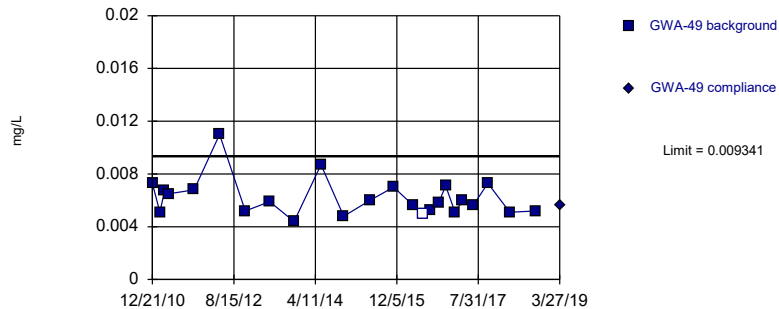


Background Data Summary (based on natural log transformation): Mean=-4.969, Std. Dev.=0.5593, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

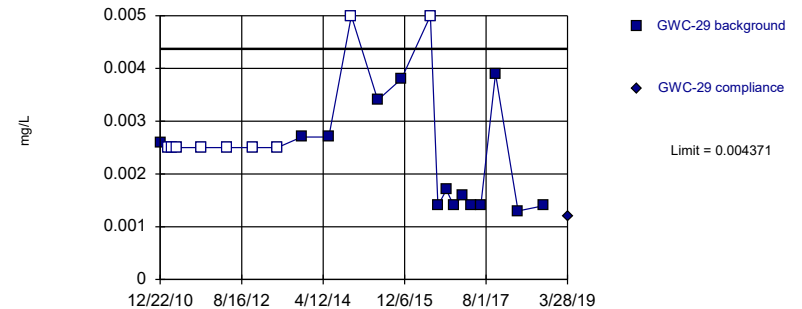


Background Data Summary (based on square root transformation): Mean=0.07821, Std. Dev.=0.008586, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8872, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric



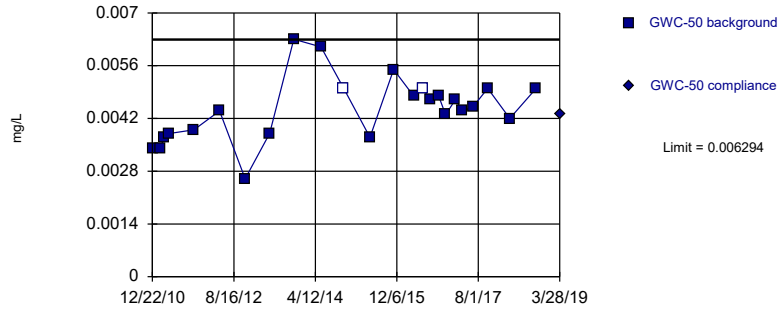
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04451, Std. Dev.=0.009984, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8898, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



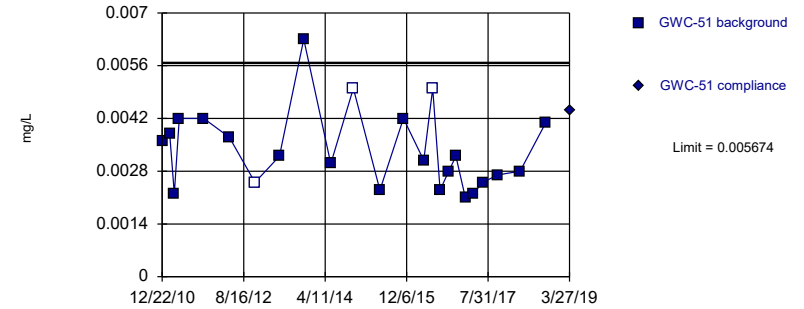
Background Data Summary: Mean=0.004458, Std. Dev.=0.0008549, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



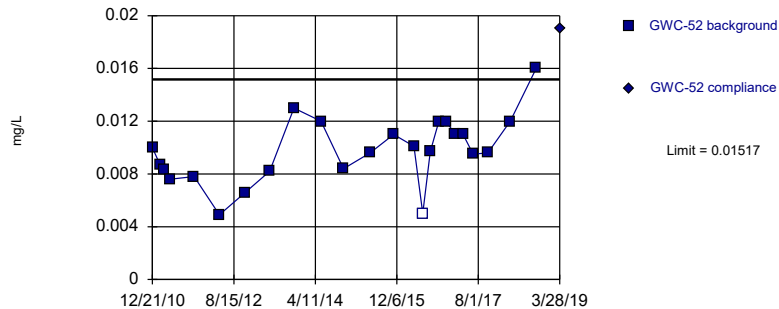
Background Data Summary: Mean=0.003375, Std. Dev.=0.001071, n=24, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric



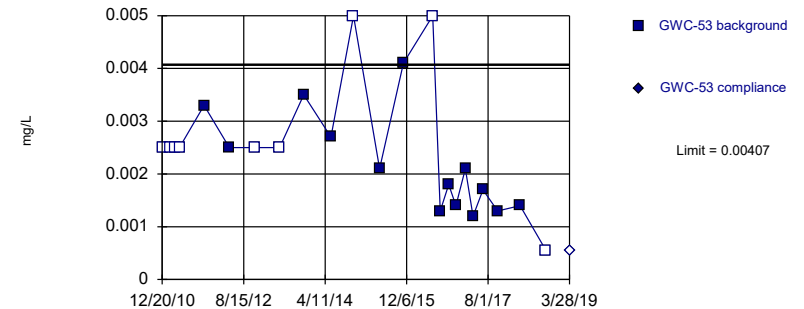
Background Data Summary: Mean=0.00975, Std. Dev.=0.002526, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



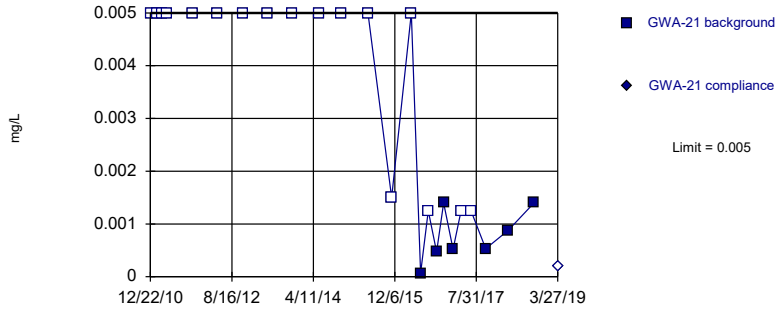
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002026, Std. Dev.=0.0009448, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Non-parametric

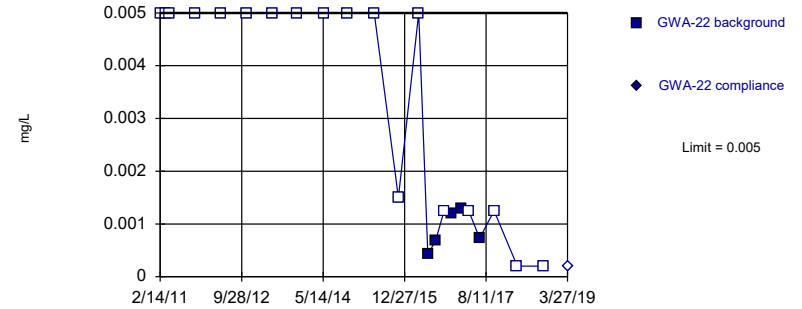


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

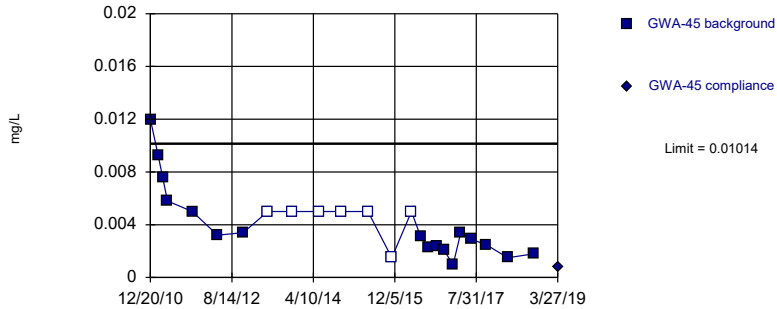


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

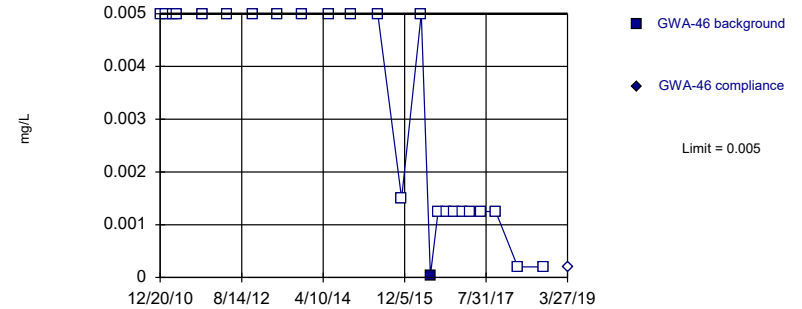


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05821, Std. Dev.=0.01979, n=24, 29.17% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

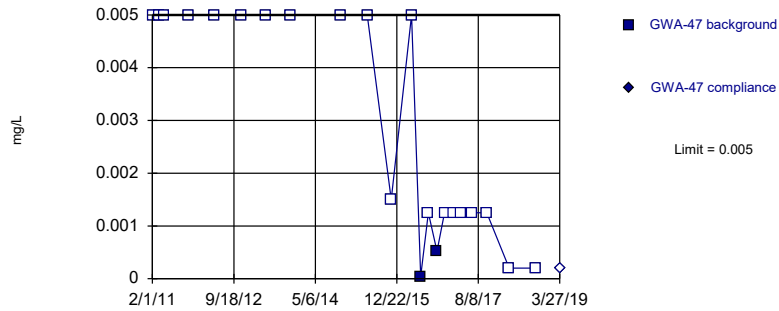


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

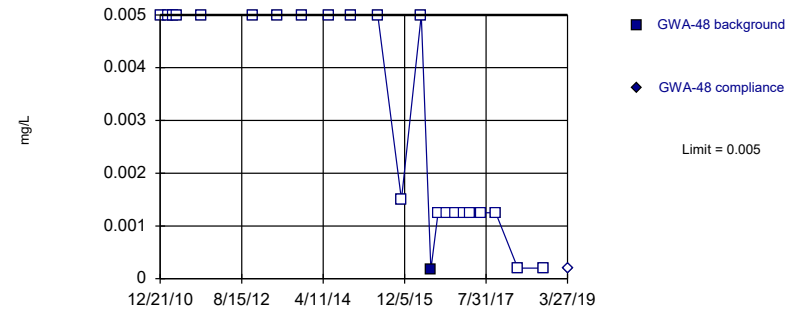


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

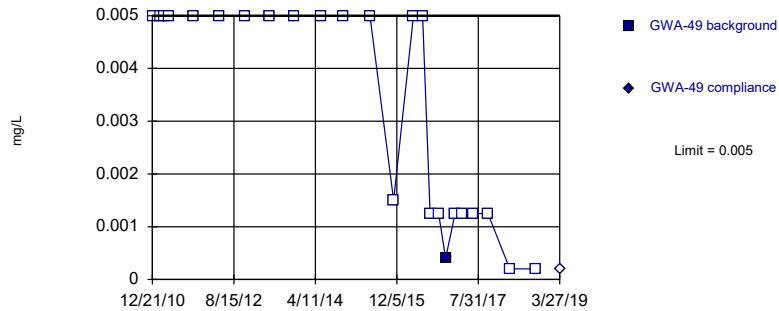


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

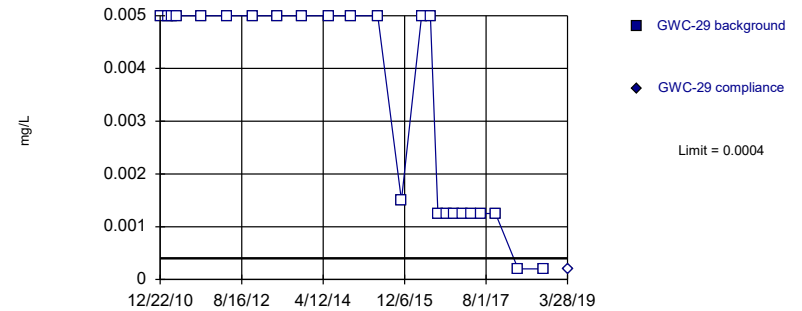


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

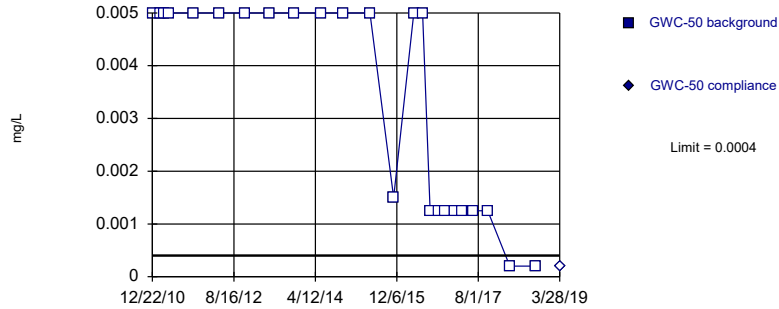


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

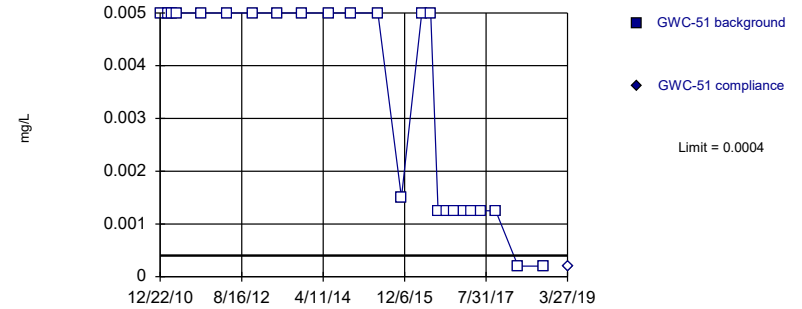


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

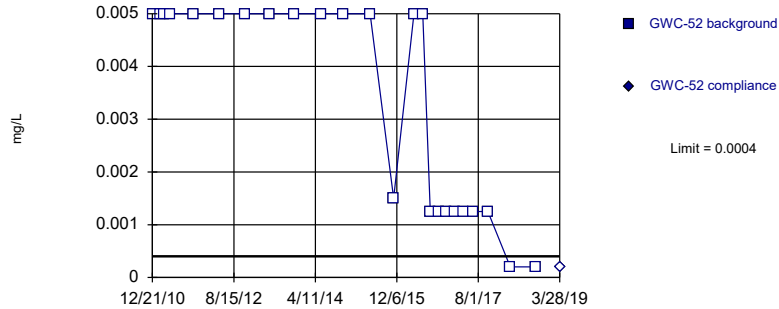


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

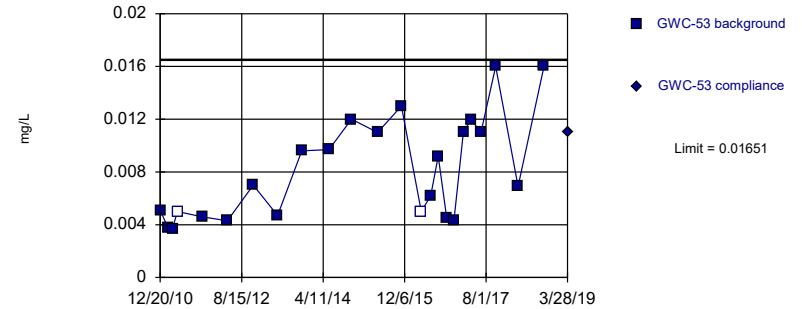


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

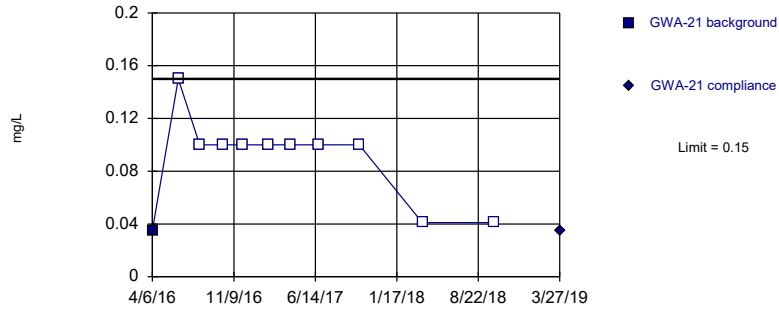


Background Data Summary: Mean=0.00815, Std. Dev.=0.003892, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8874, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

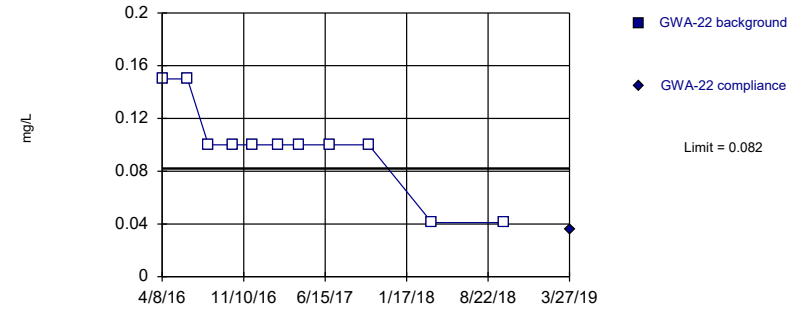


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

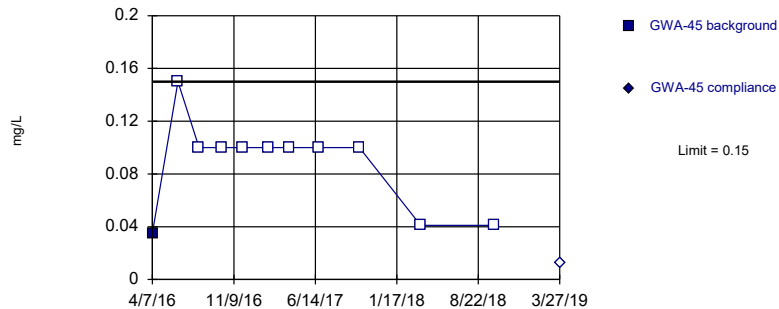


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

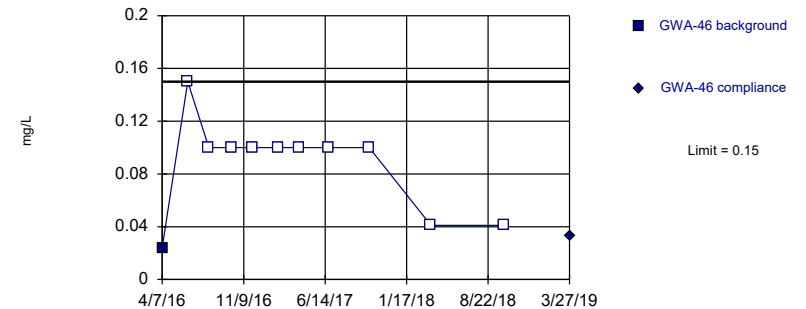


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

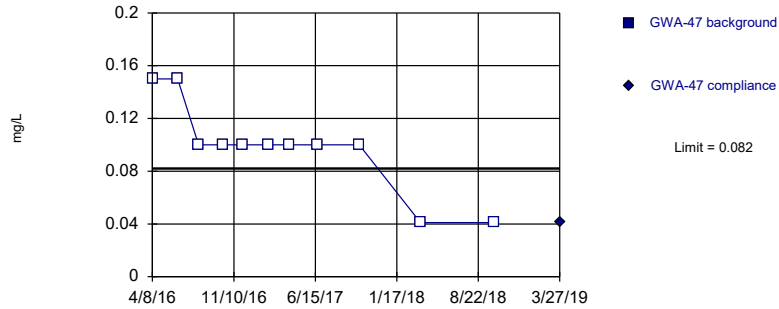


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

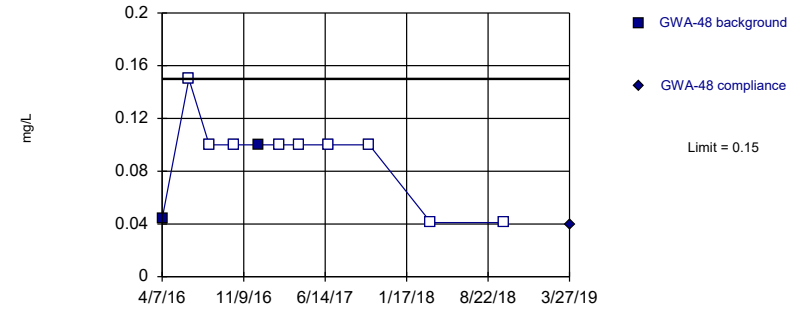


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

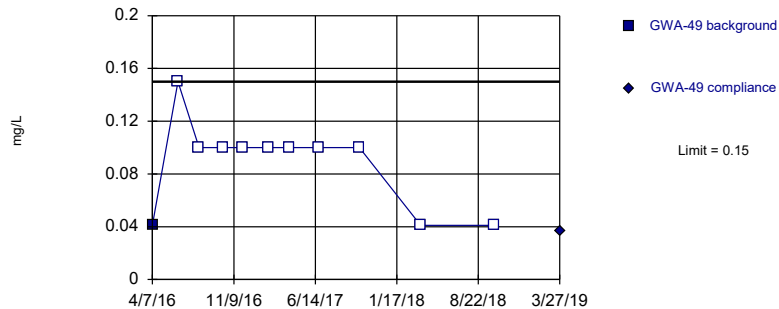


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

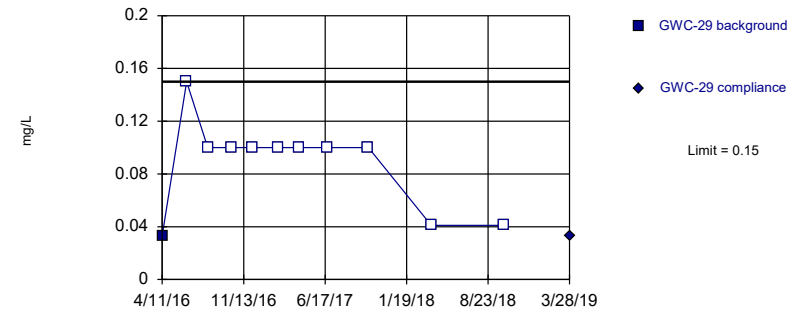


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

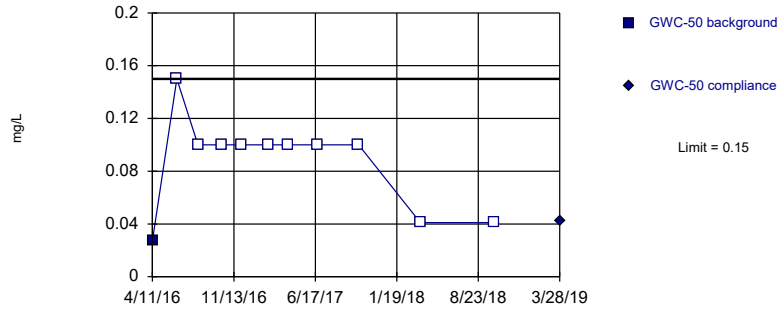


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

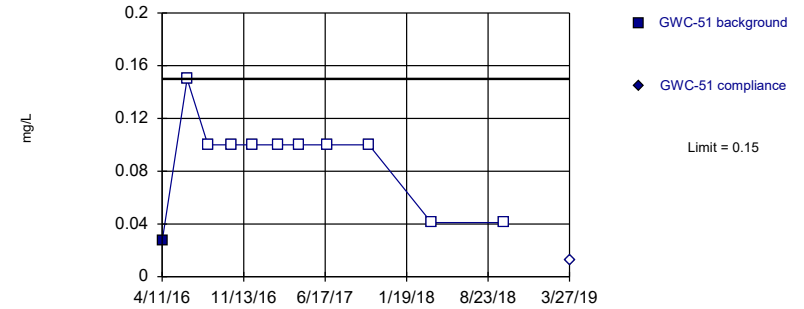


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

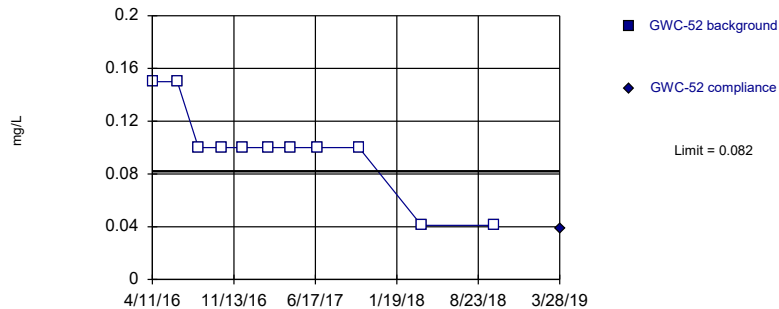


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

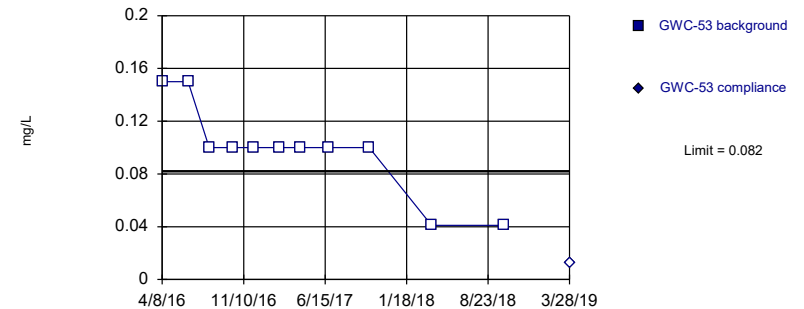


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

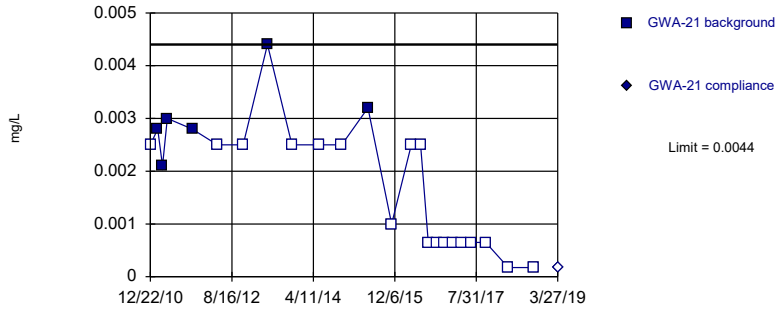
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

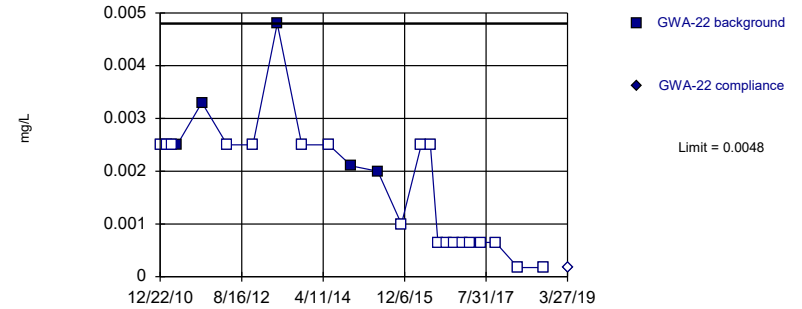
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

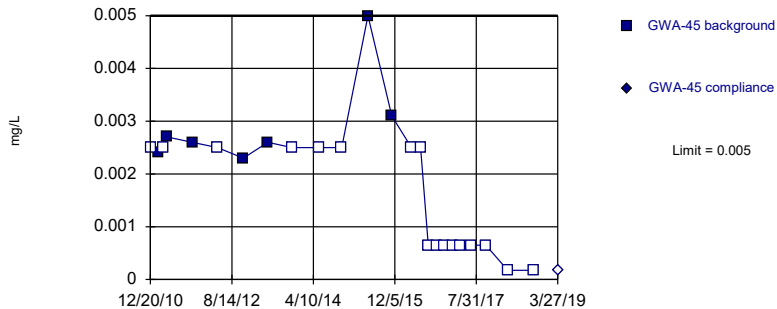
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

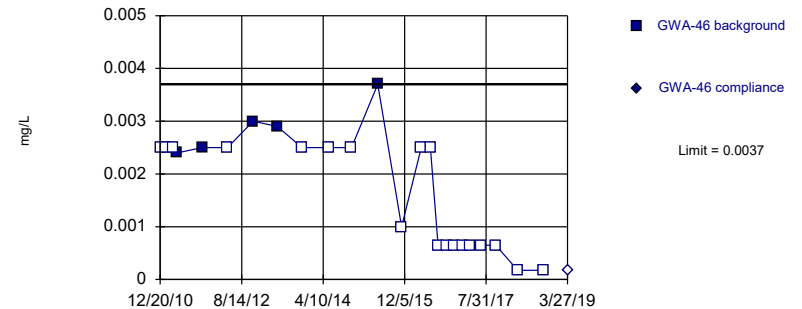
Within Limit Prediction Limit  
Intrawell Non-parametric



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: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

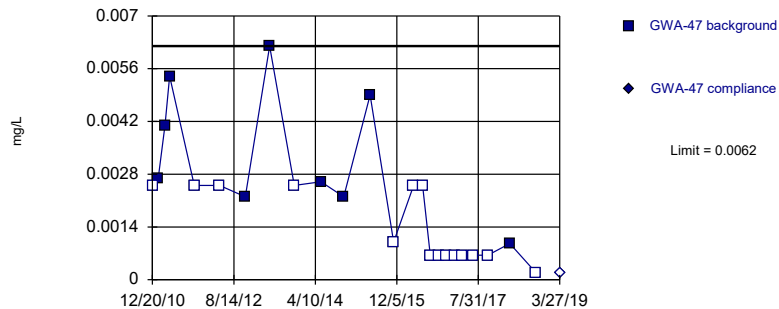
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

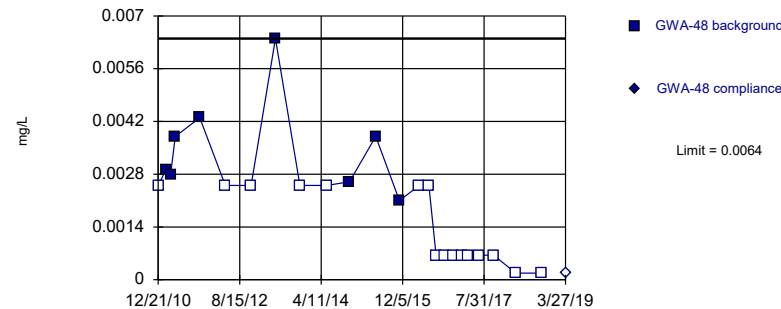
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

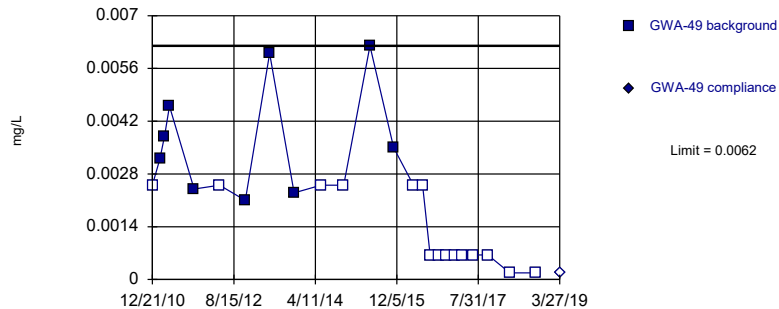
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

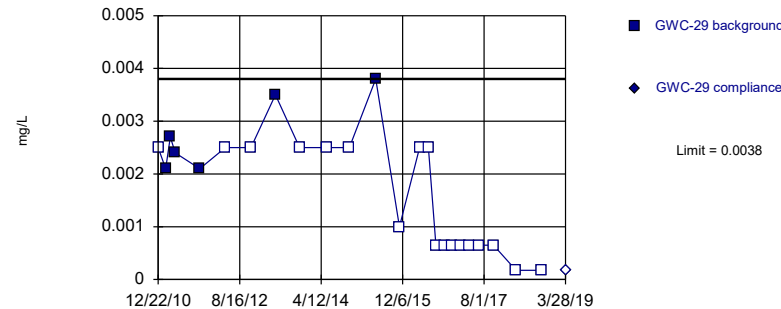
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit  
Prediction Limit  
Intrawell Non-parametric



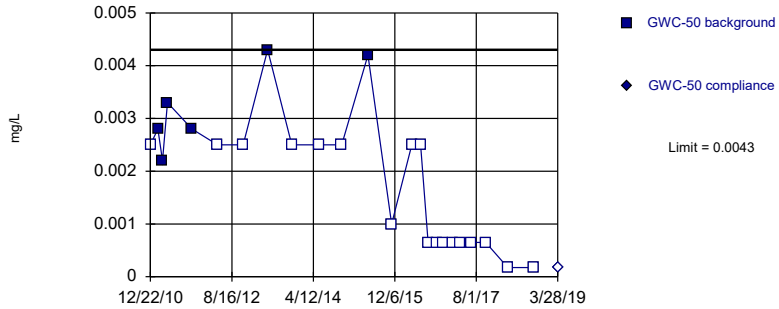
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Non-parametric

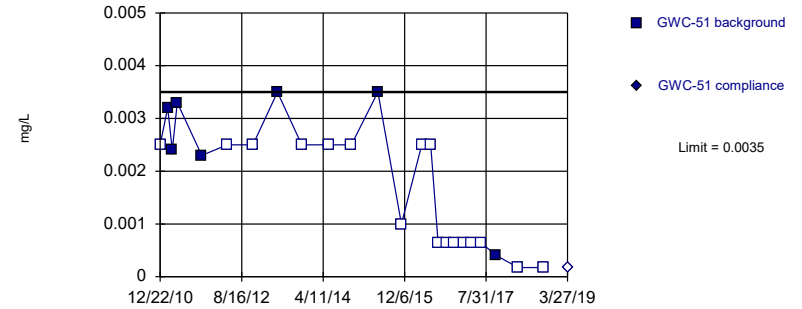


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

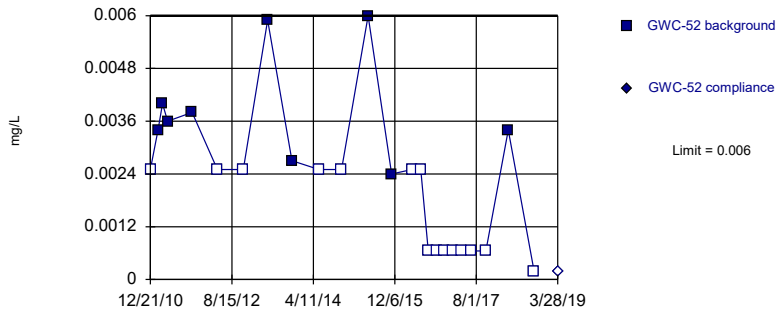


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

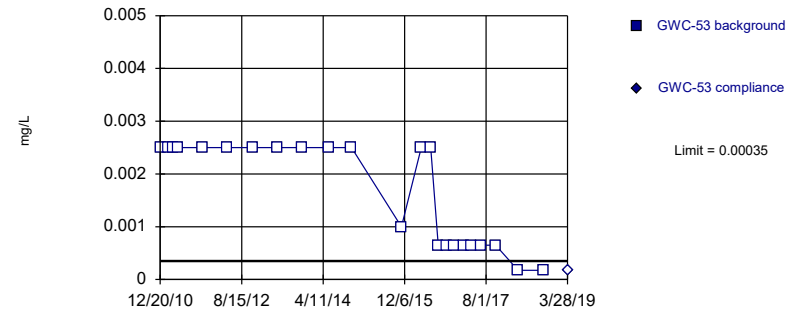


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

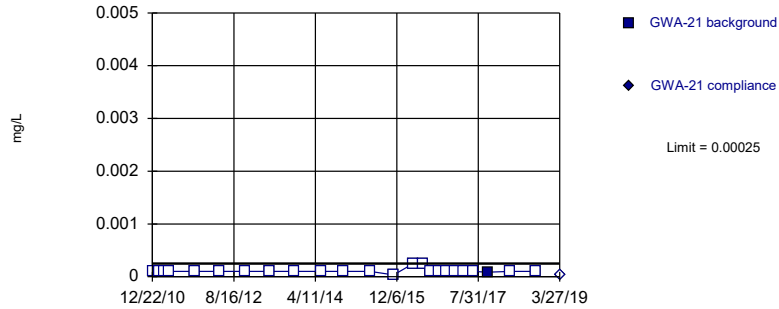


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

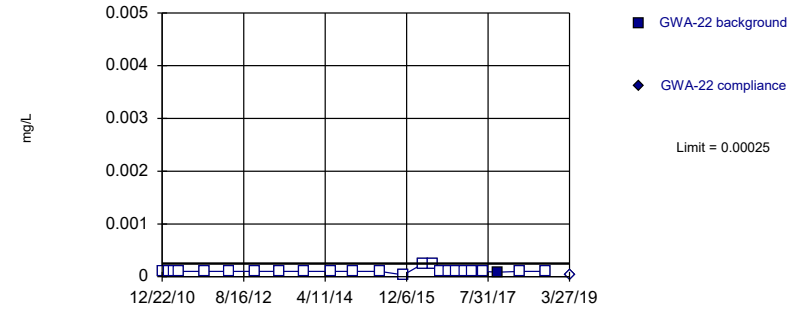


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

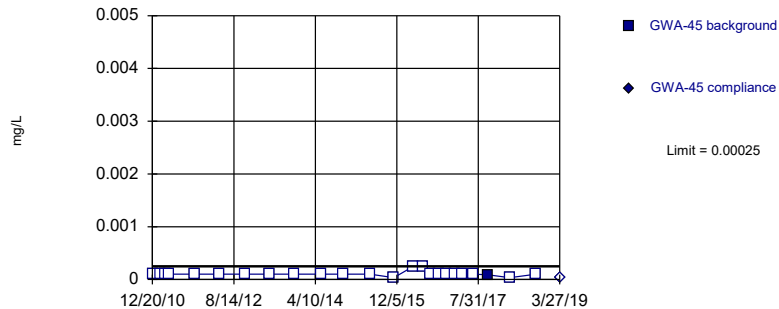


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

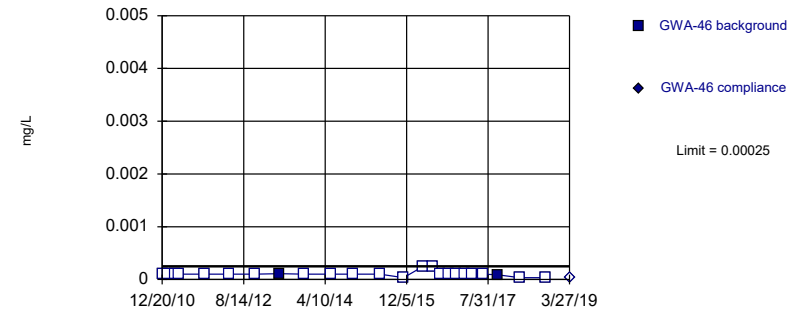


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

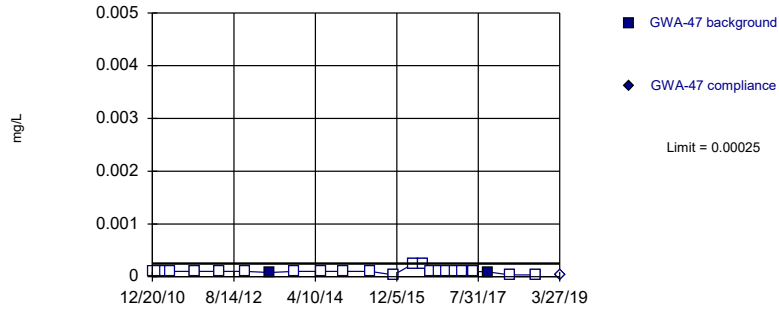
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

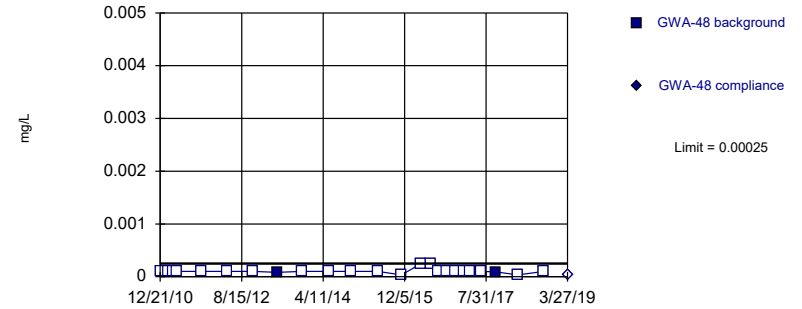
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

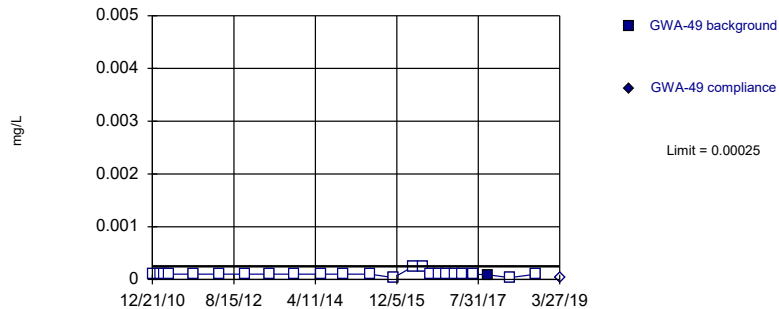
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

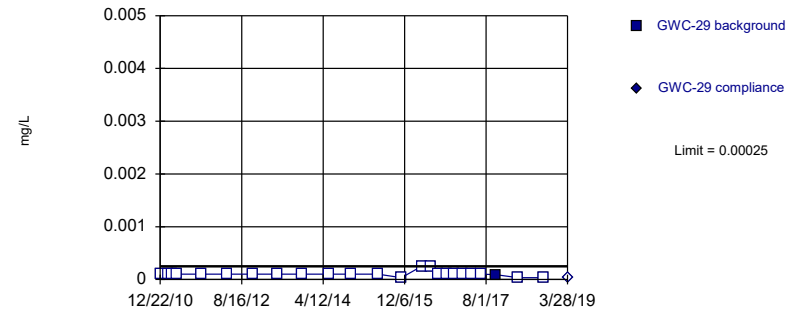
Within Limit Prediction Limit  
Intrawell Non-parametric



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, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

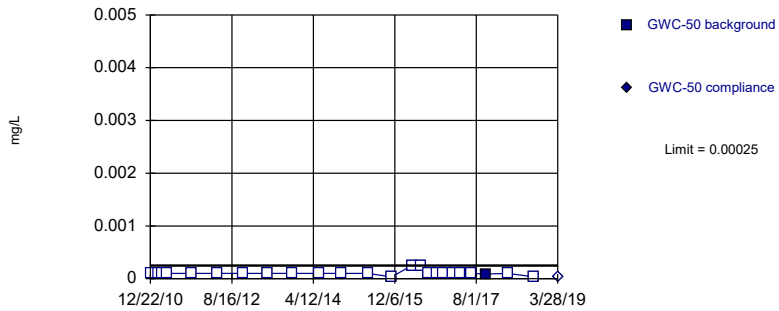
Within Limit Prediction Limit  
Intrawell Non-parametric



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, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

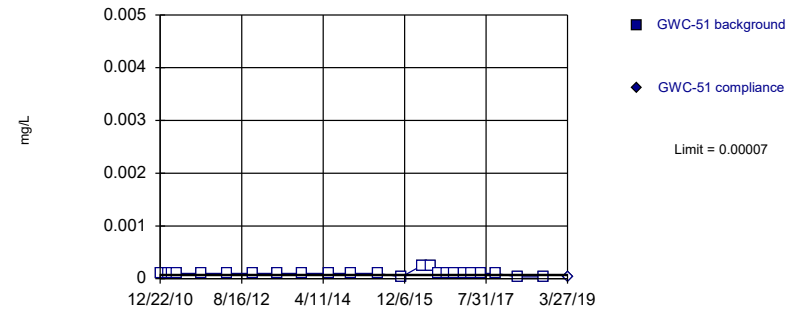
Within Limit Prediction Limit  
Intrawell Non-parametric



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, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

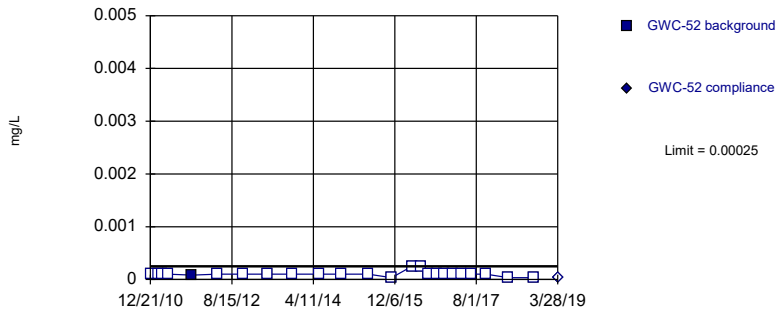
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

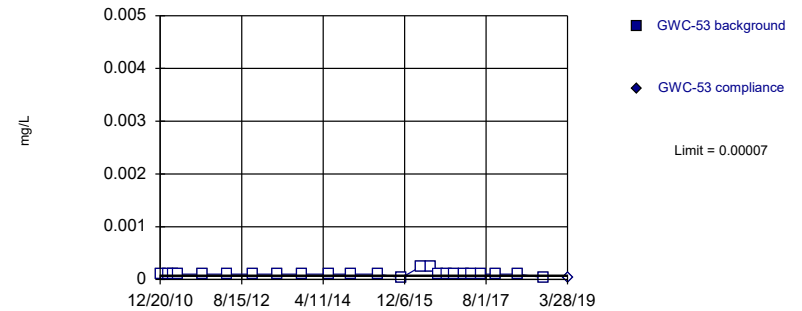
Within Limit Prediction Limit  
Intrawell Non-parametric



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, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric



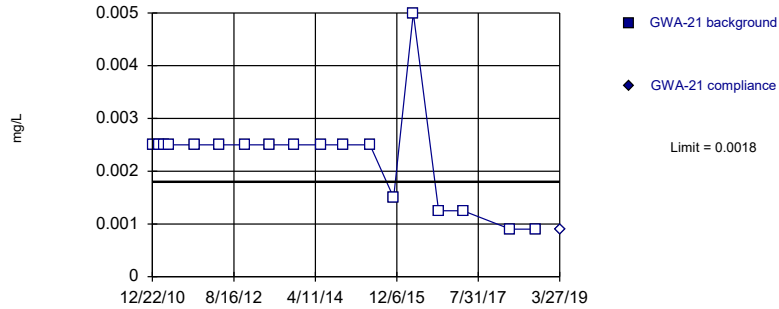
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



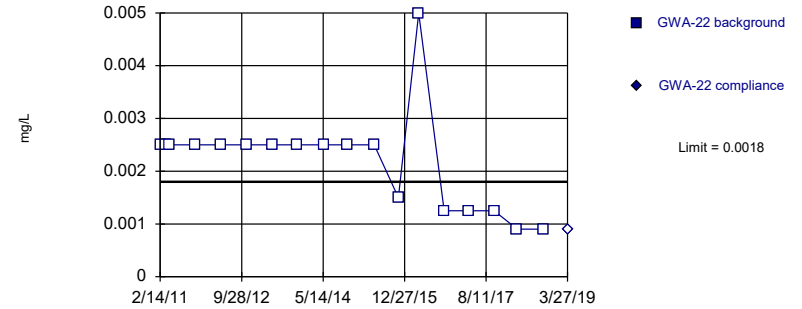
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



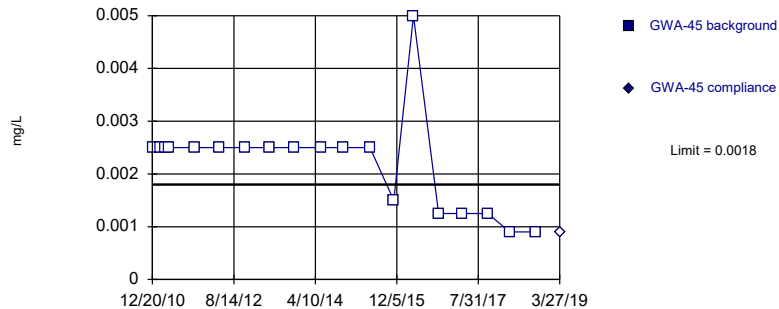
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



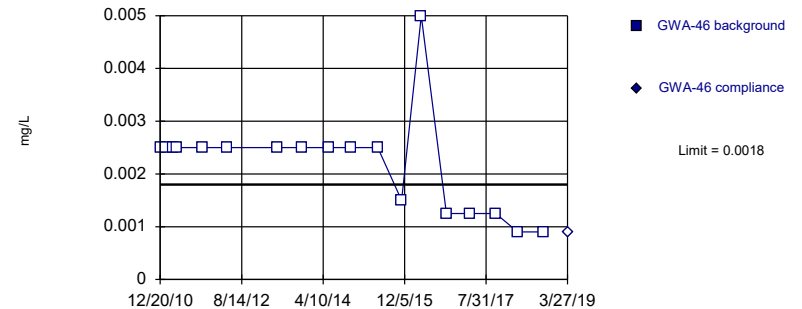
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

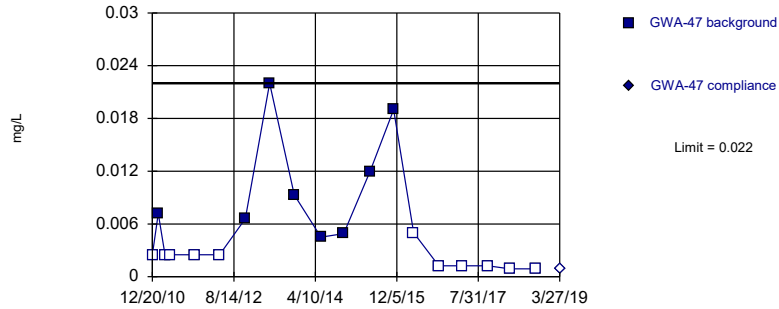


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

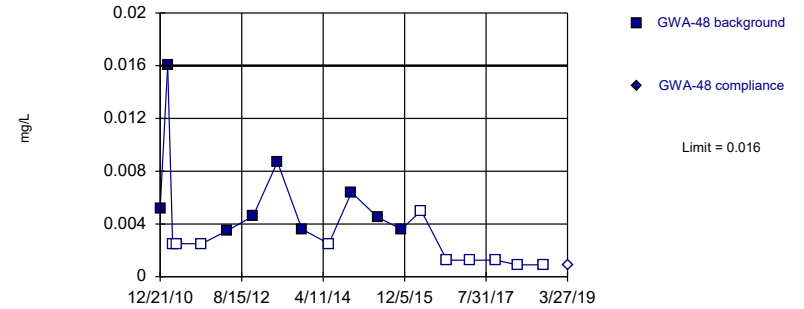


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

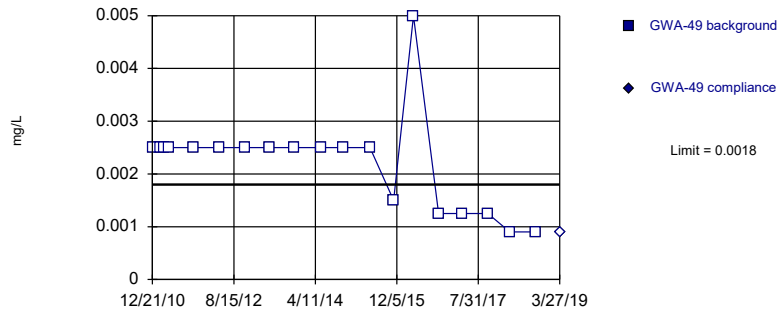


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 52.63% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

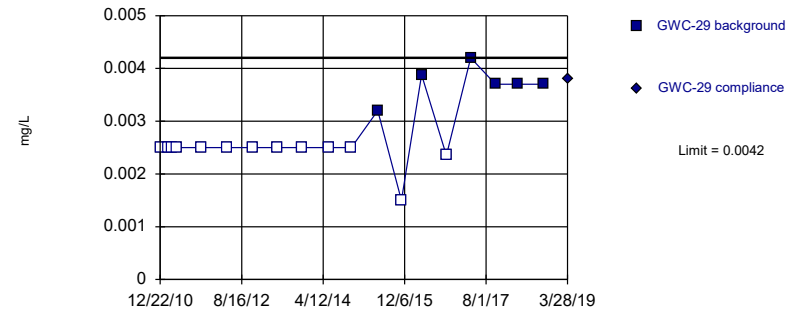


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

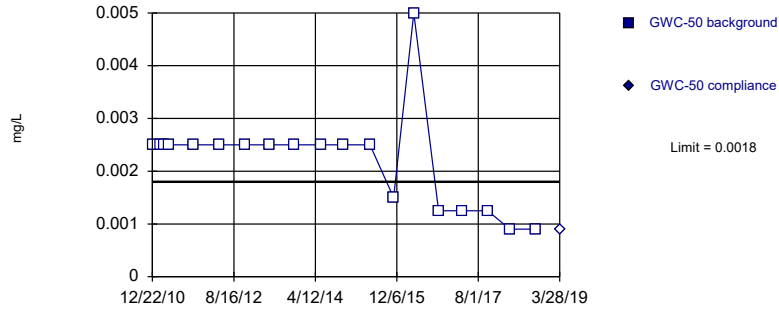


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

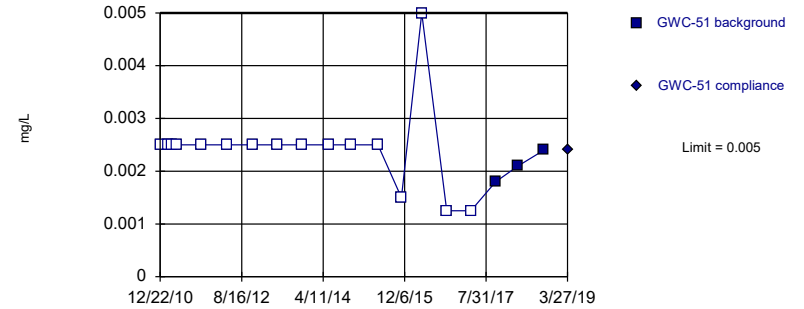


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

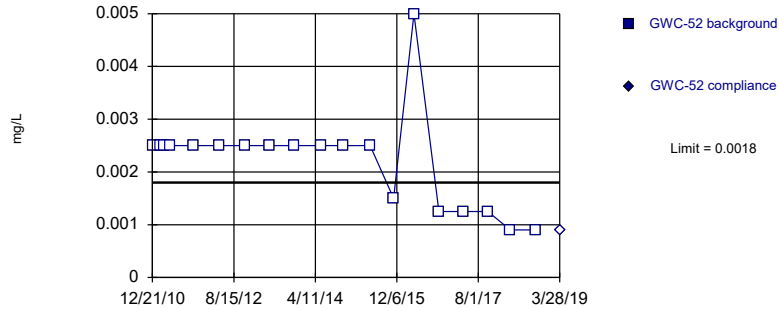


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

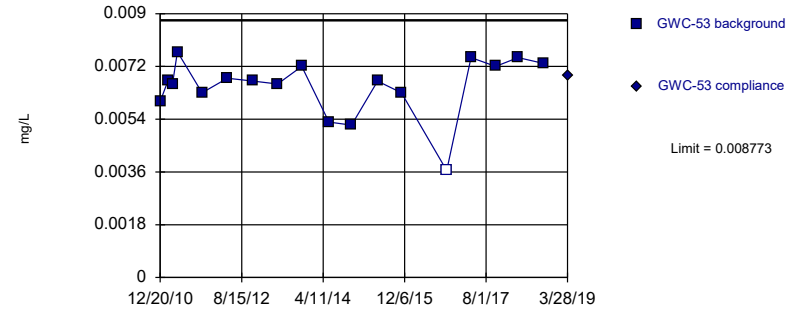


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

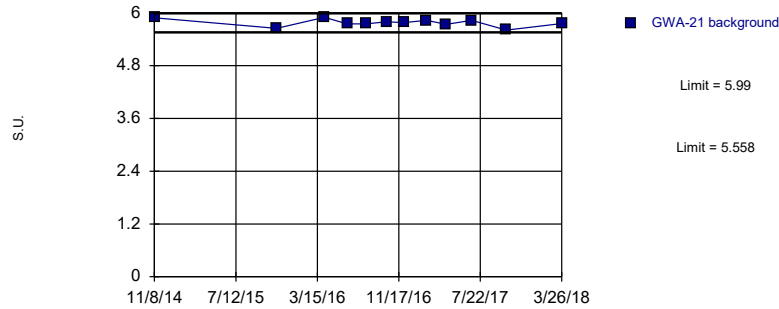
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.006514, Std. Dev.=0.0009961, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8671, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

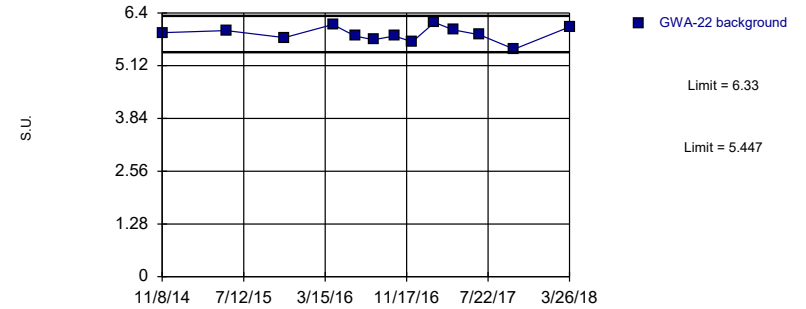
Prediction Limit  
Intrawell Parametric, GWA-21 (bg)



Background Data Summary: Mean=5.774, Std. Dev.=0.08586, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

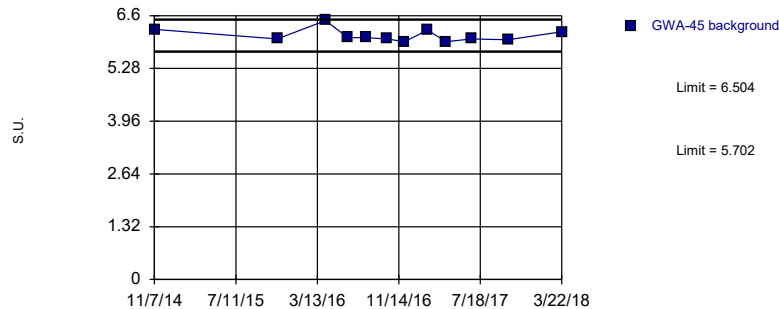
Prediction Limit  
Intrawell Parametric, GWA-22 (bg)



Background Data Summary: Mean=5.888, Std. Dev.=0.1788, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

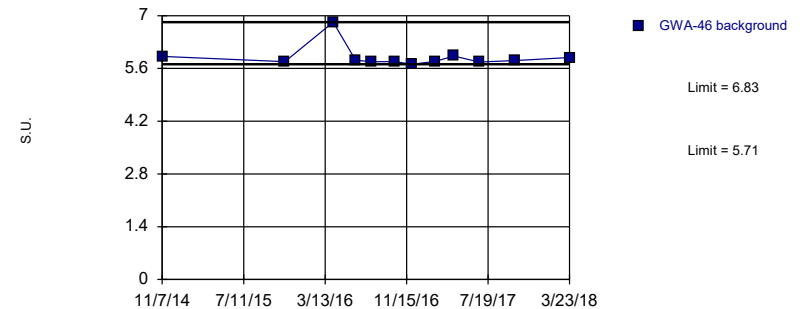
Prediction Limit  
Intrawell Parametric, GWA-45 (bg)



Background Data Summary: Mean=6.103, Std. Dev.=0.1592, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.833, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Prediction Limit  
Intrawell Non-parametric, GWA-46 (bg)

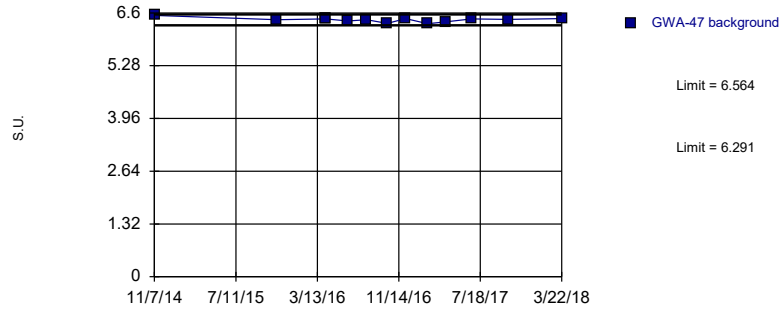


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 12 background values. Well-constituent pair annual alpha = 0.04286. Individual comparison alpha = 0.02155 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



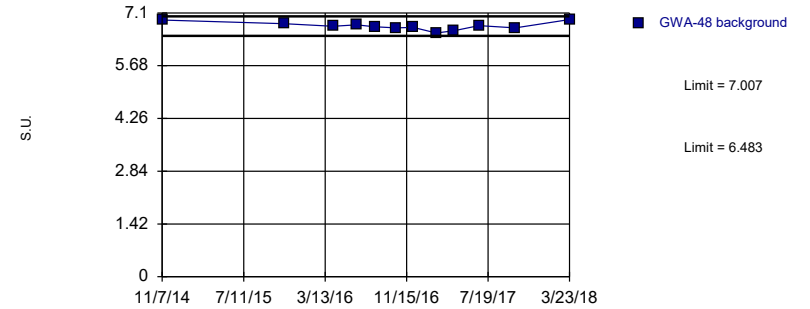
Prediction Limit  
Intrawell Parametric, GWA-47 (bg)



Background Data Summary: Mean=6.428, Std. Dev.=0.05525, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9197, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

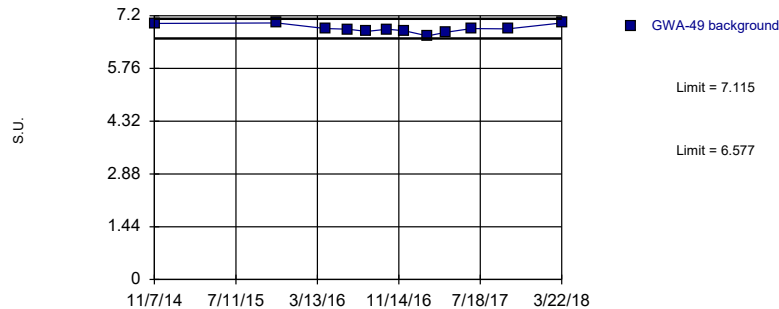
Prediction Limit  
Intrawell Parametric, GWA-48 (bg)



Background Data Summary: Mean=6.745, Std. Dev.=0.104, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

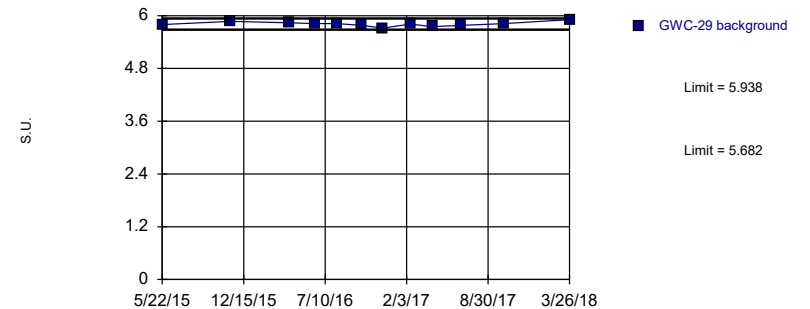
Prediction Limit  
Intrawell Parametric, GWA-49 (bg)



Background Data Summary: Mean=6.846, Std. Dev.=0.1067, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9121, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

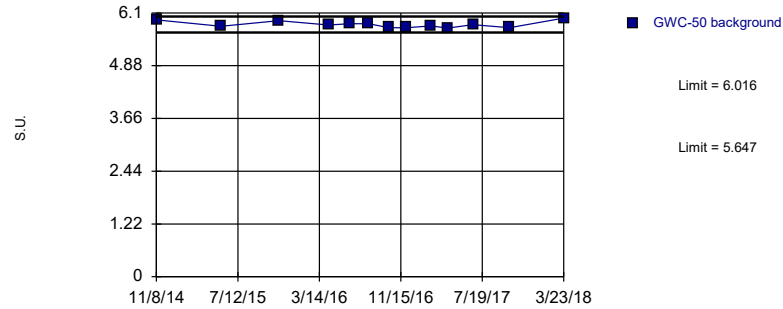
Prediction Limit  
Intrawell Parametric, GWC-29



Background Data Summary: Mean=5.81, Std. Dev.=0.05081, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

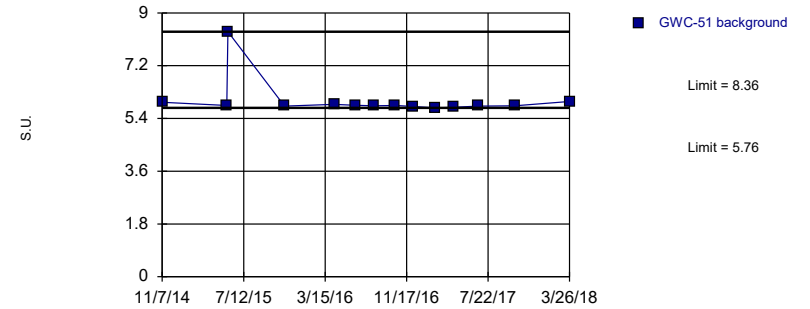
Prediction Limit  
Intrawell Parametric, GWC-50



Background Data Summary: Mean=5.832, Std. Dev.=0.07482, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8956, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

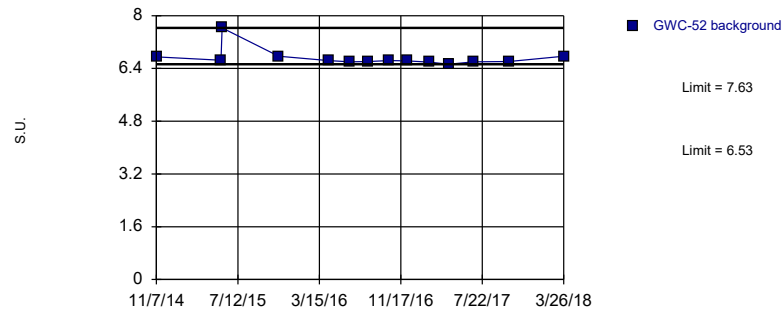
Prediction Limit  
Intrawell Non-parametric, GWC-51



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 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

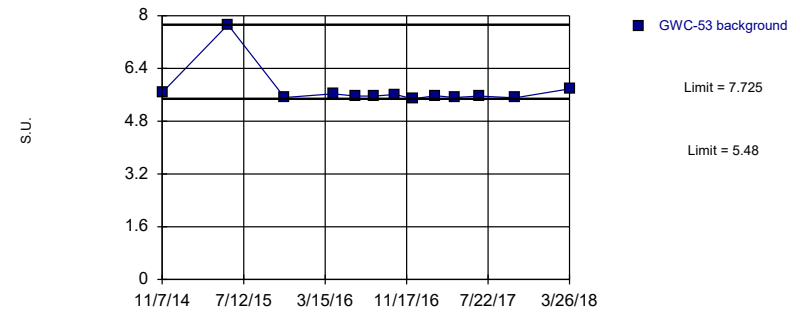
Prediction Limit  
Intrawell Non-parametric, GWC-52



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 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Prediction Limit  
Intrawell Non-parametric, GWC-53

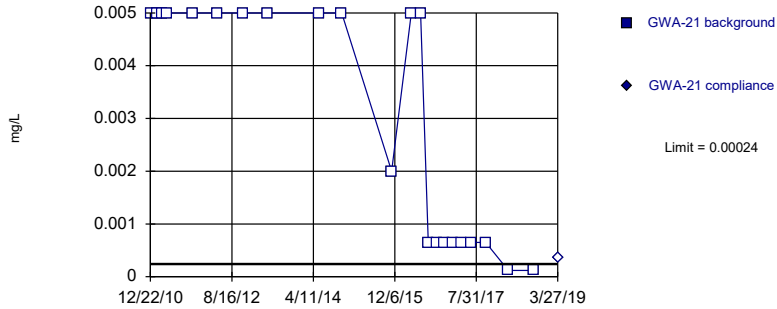


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.03858. Individual comparison alpha = 0.01938 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

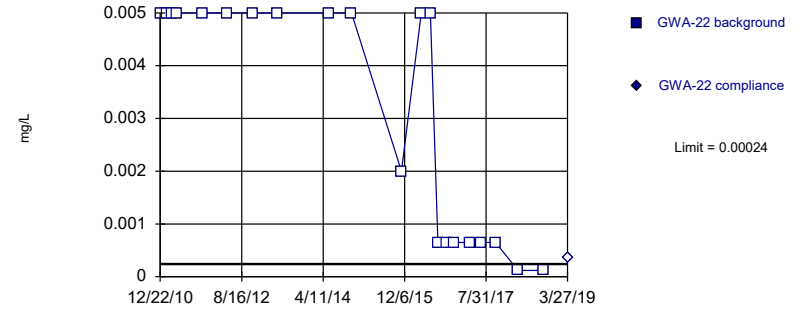


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

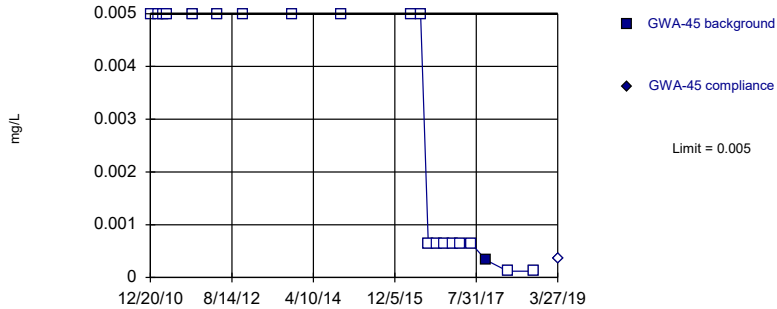


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

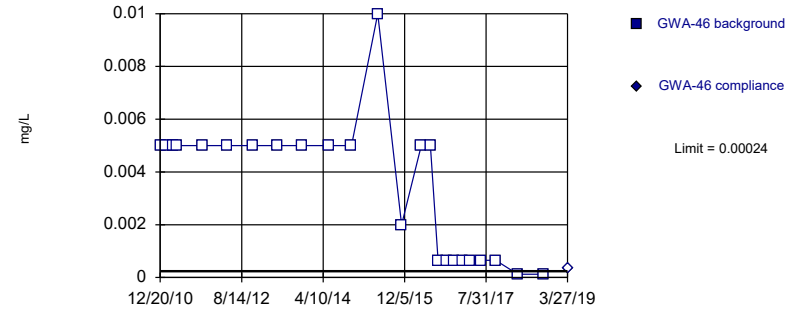


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

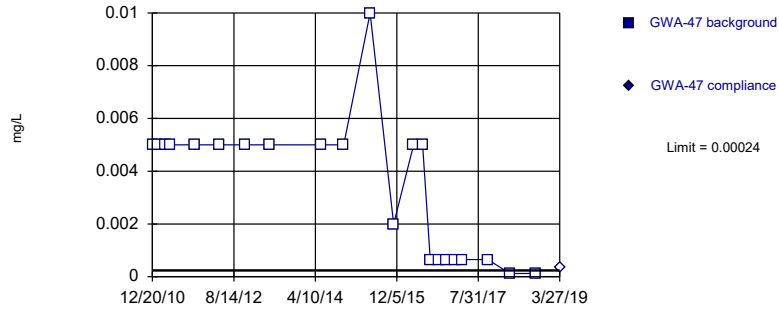


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

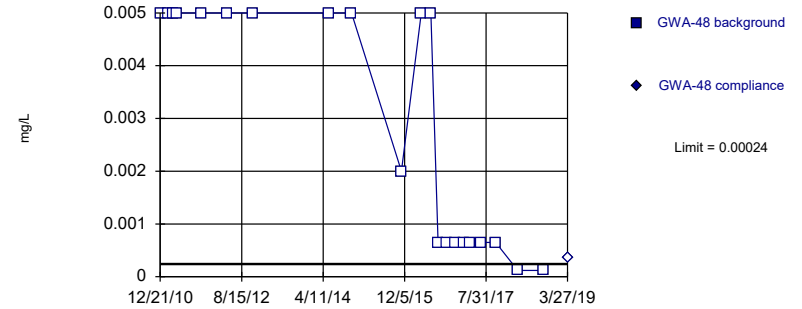


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

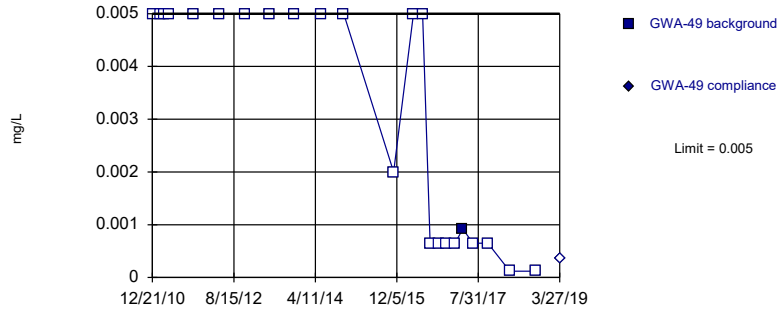


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

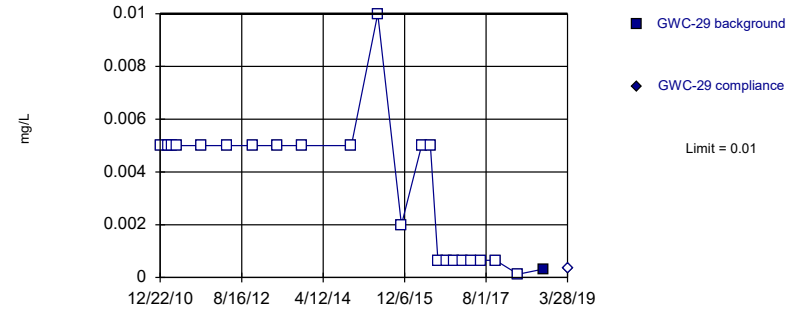


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

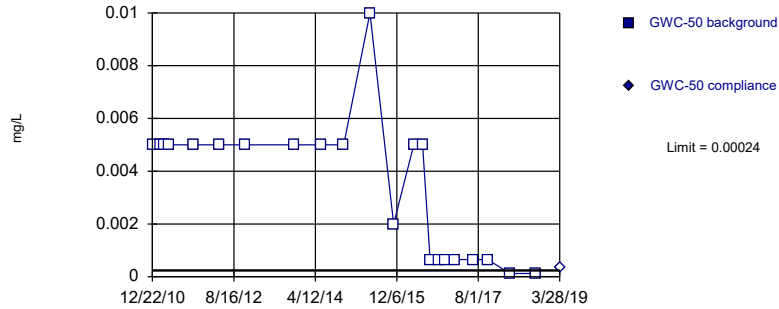


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

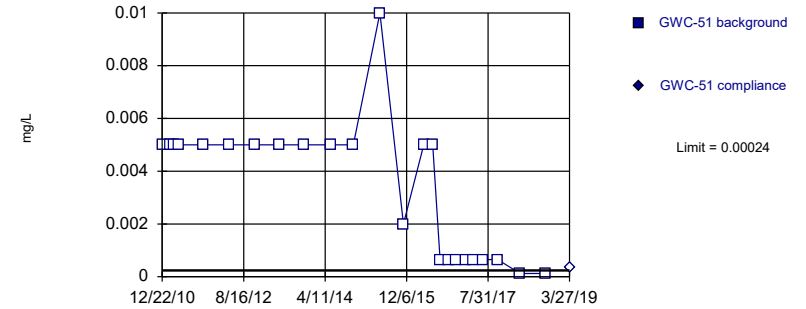


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

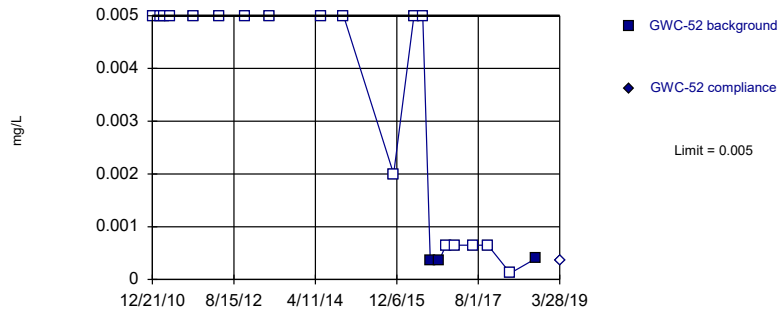


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

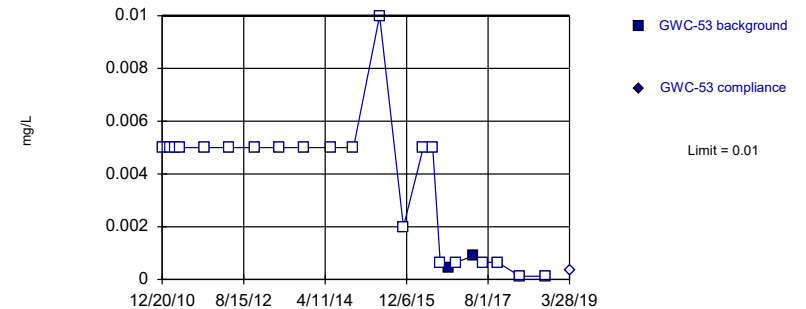


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

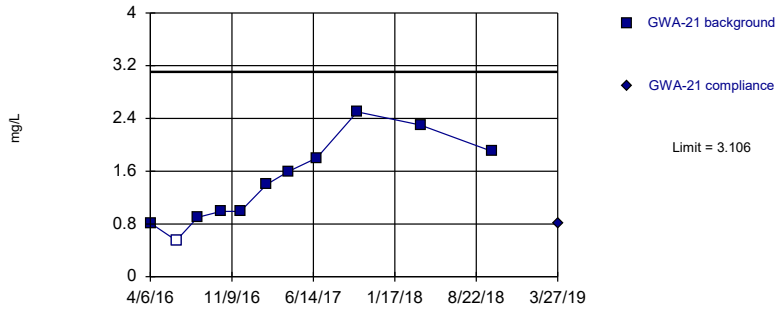
Prediction Limit  
Intrawell Non-parametric



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: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

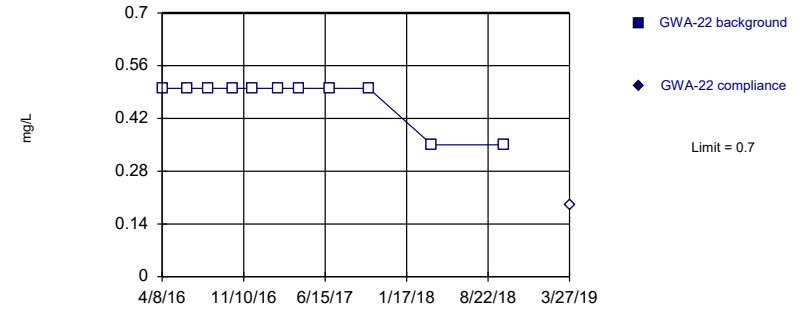
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.431, Std. Dev.=0.6413, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.943, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

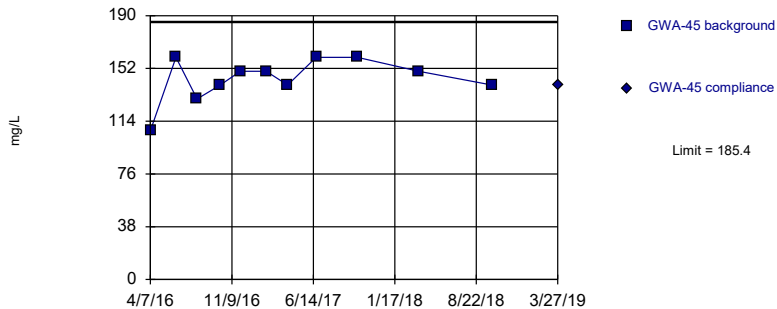
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

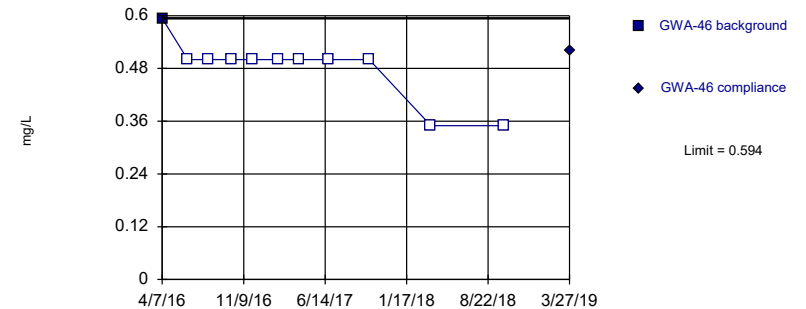
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=144.3, Std. Dev.=15.75, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8611, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric

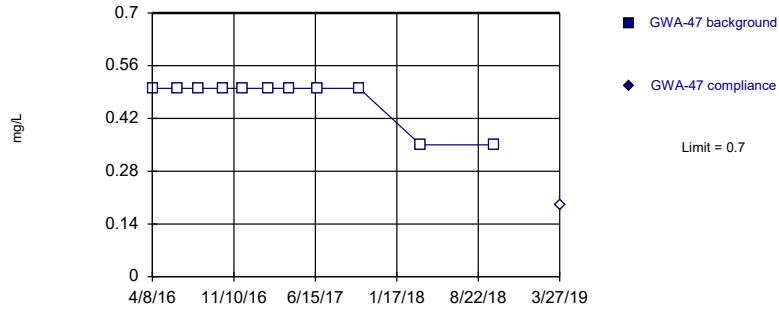


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

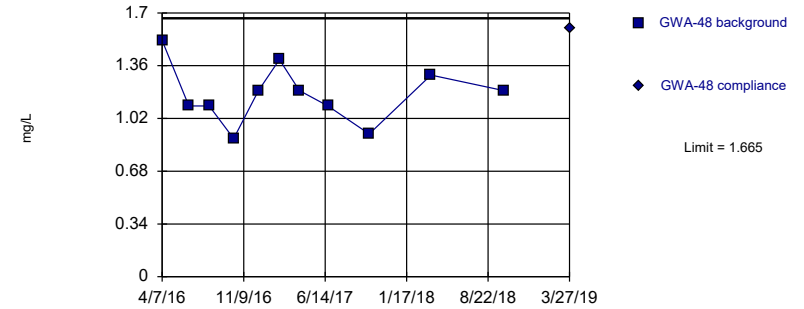


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

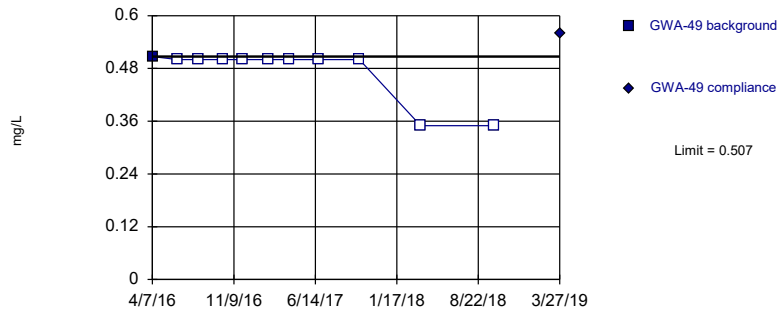


Background Data Summary: Mean=1.176, Std. Dev.=0.1875, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

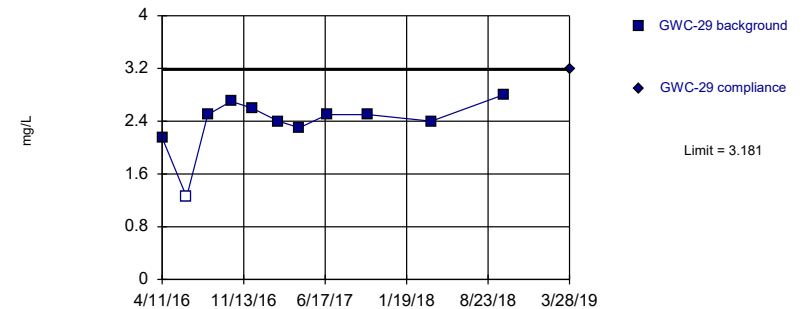


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

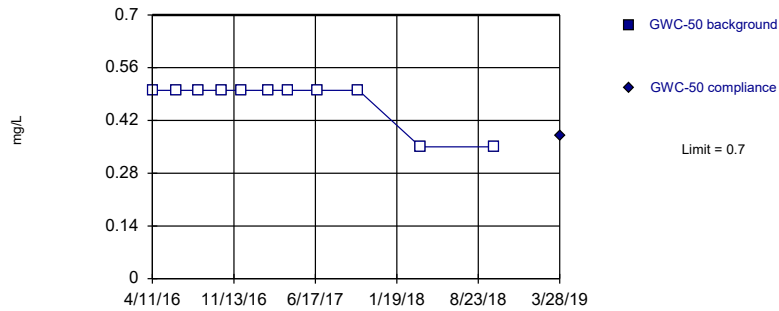


Background Data Summary (based on square transformation): Mean=5.785, Std. Dev.=1.659, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8502, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

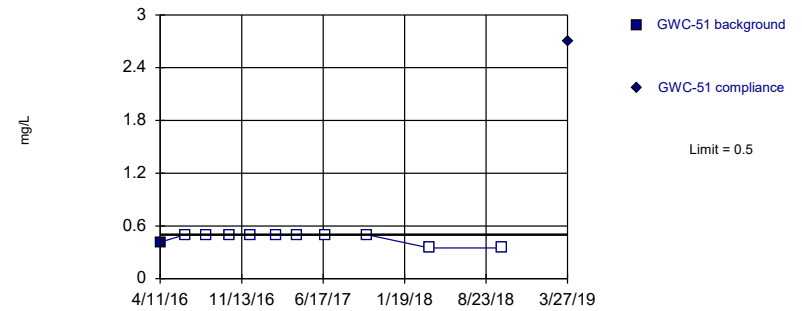


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

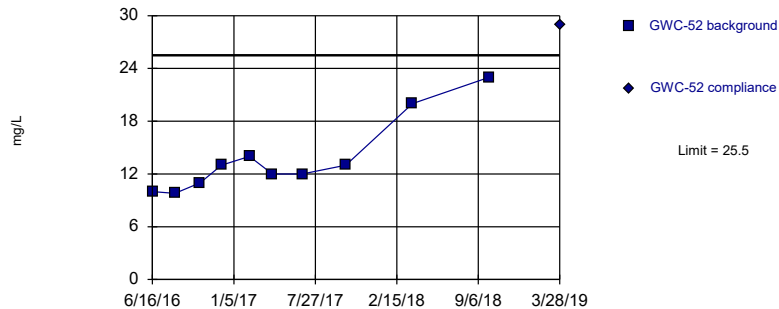


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

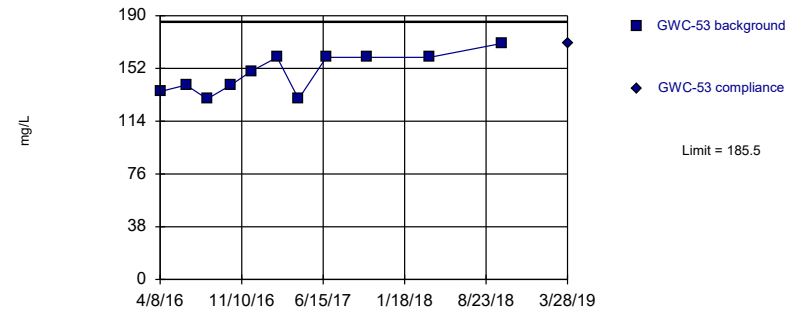


Background Data Summary: Mean=13.78, Std. Dev.=4.335, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8053, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

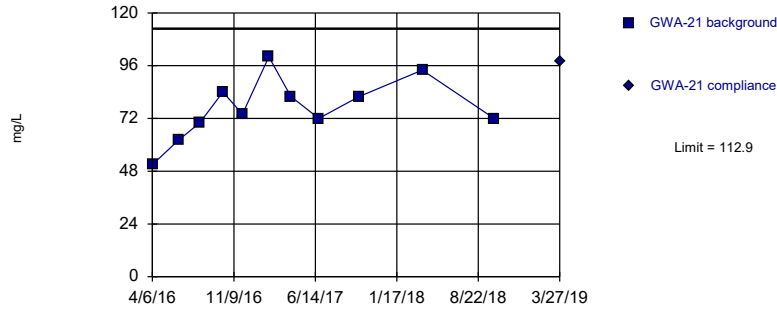


Background Data Summary: Mean=148.7, Std. Dev.=14.12, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



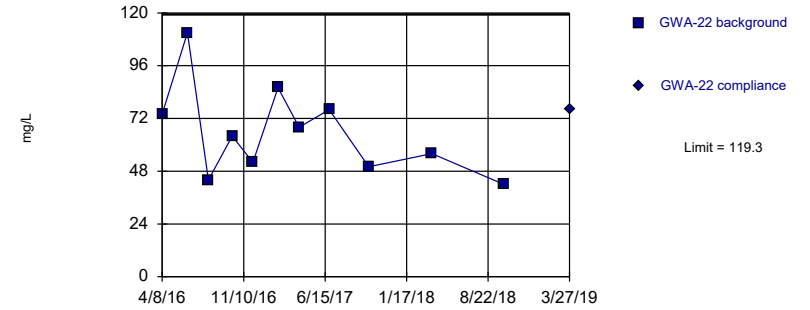
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=76.64, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

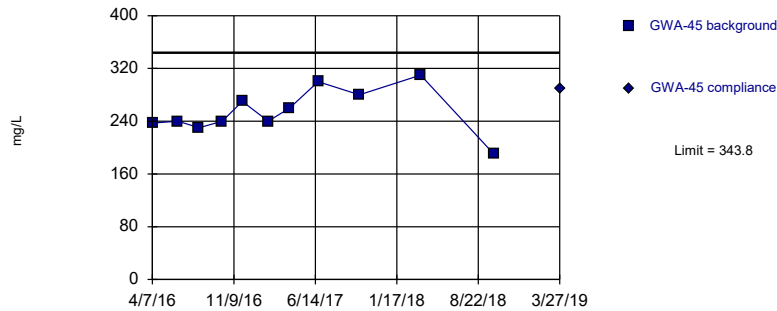
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=65.73, Std. Dev.=20.51, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric

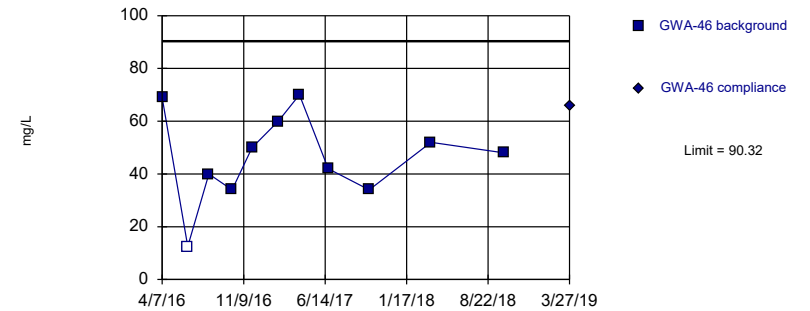


Background Data Summary: Mean=254.3, Std. Dev.=34.3, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Hollow symbols indicate censored values.

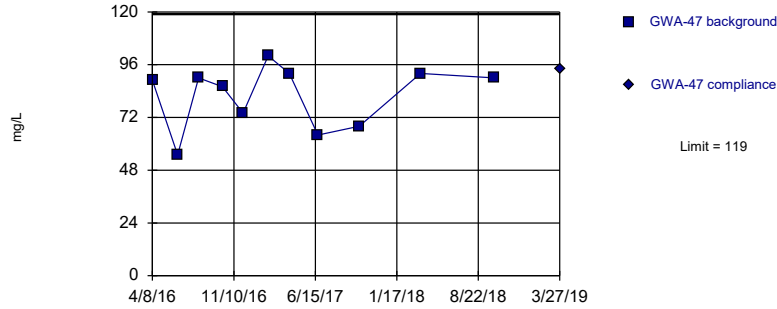
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=46.5, Std. Dev.=16.78, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

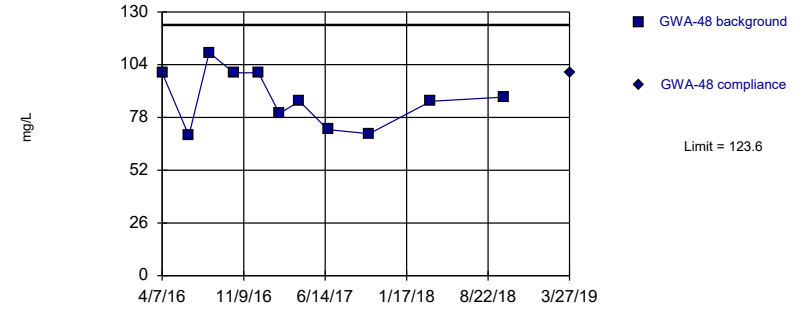
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=81.82, Std. Dev.=14.25, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8889, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

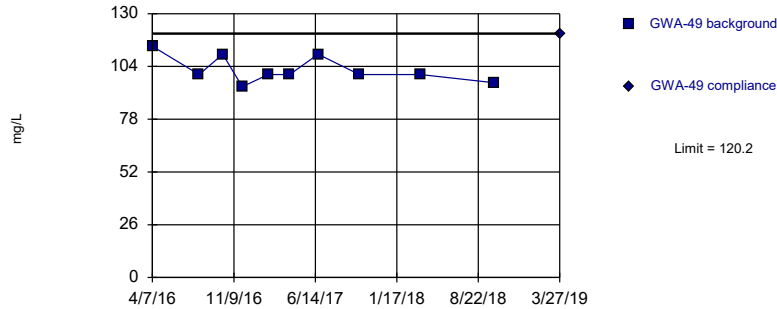
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=87.36, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

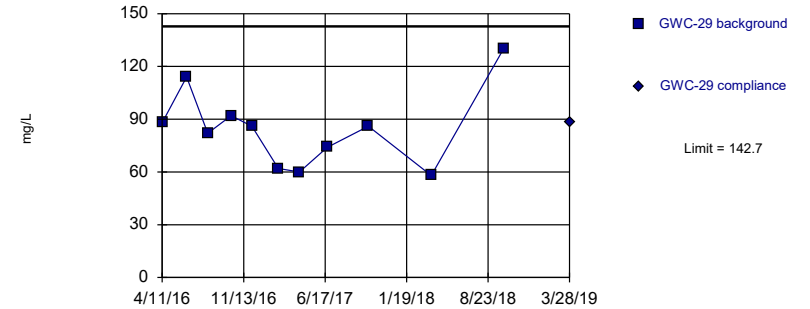
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=102.4, Std. Dev.=6.586, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8509, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

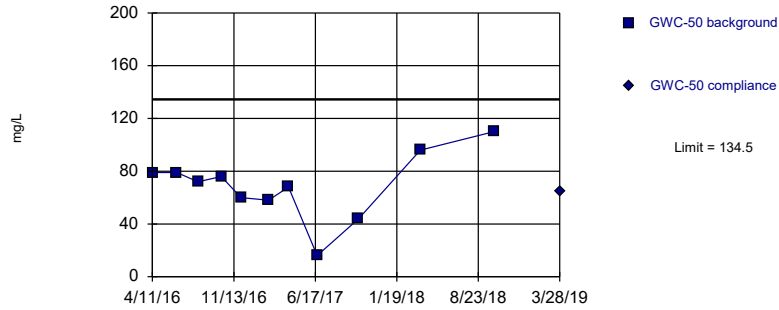
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=84.73, Std. Dev.=22.22, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

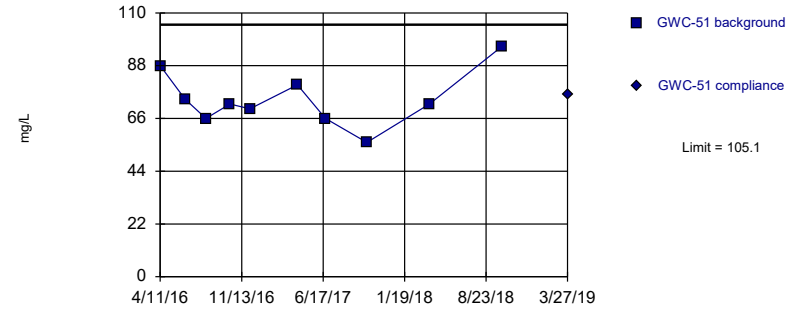
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=68.91, Std. Dev.=25.11, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

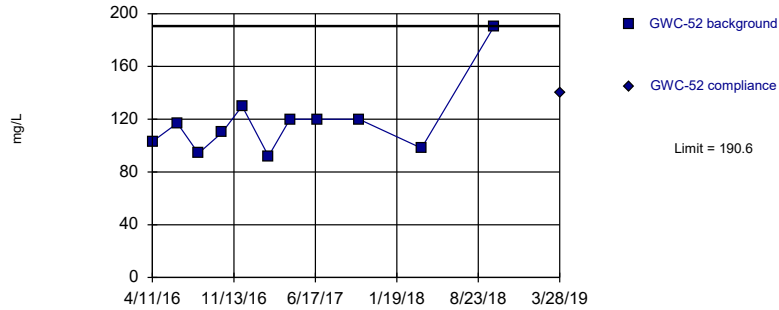
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=74, Std. Dev.=11.51, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9518, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

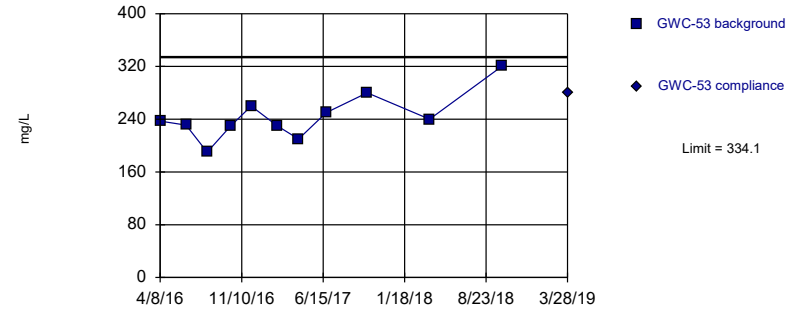
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=10.79, Std. Dev.=1.155, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8156, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

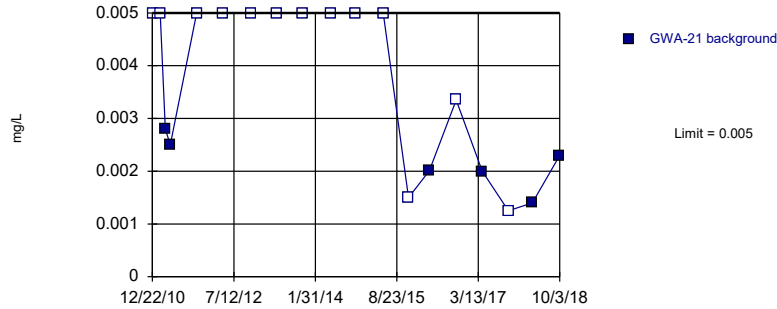
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=243.5, Std. Dev.=34.73, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

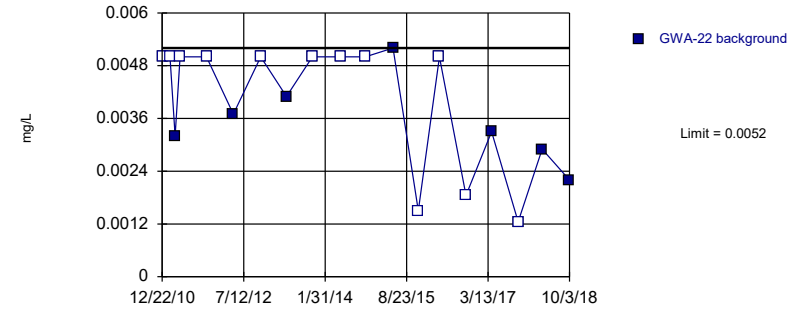
Prediction Limit  
Intrawell Non-parametric, GWA-21 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2). Assumes 1 future value.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

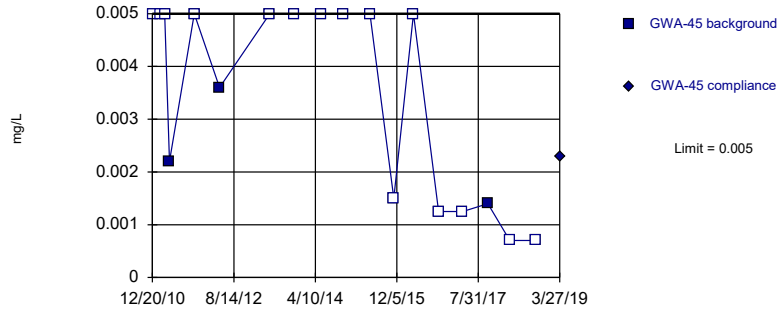
Prediction Limit  
Intrawell Non-parametric, GWA-22 (bg)



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). Assumes 1 future value.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

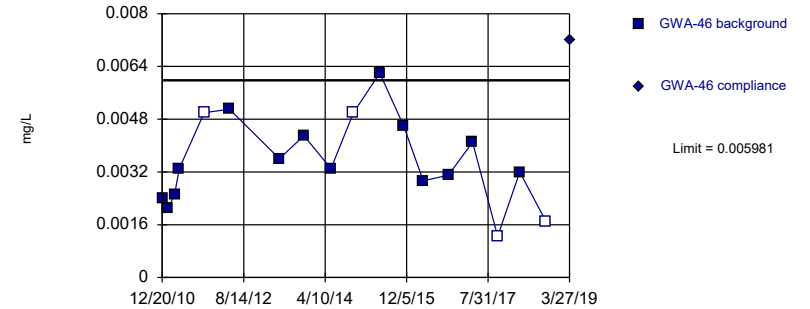
Within Limit  
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit  
Prediction Limit  
Intrawell Parametric

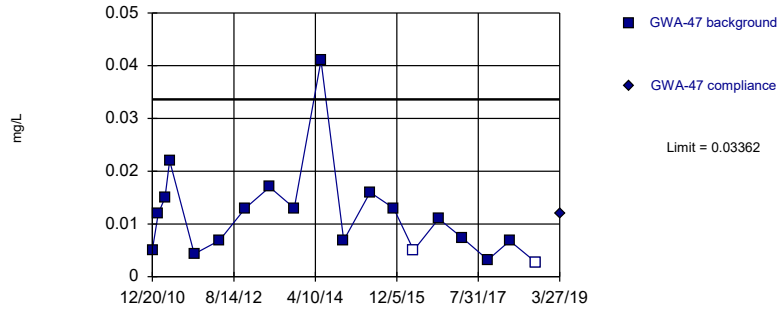


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00344, Std. Dev.=0.001121, n=18, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

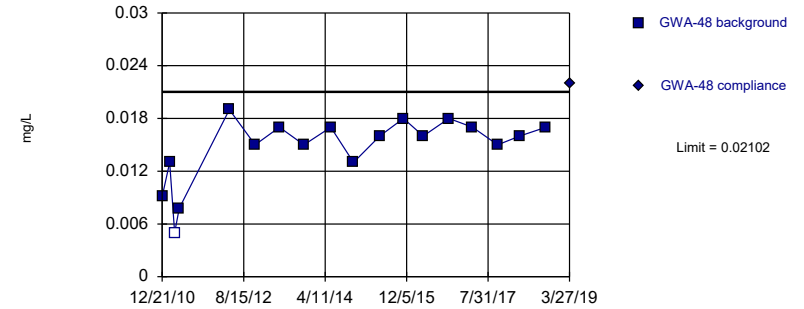


Background Data Summary (based on square root transformation): Mean=0.01019, Std. Dev.=0.03636, n=19, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9235, critical = 0.863. Kappa = 2.24 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

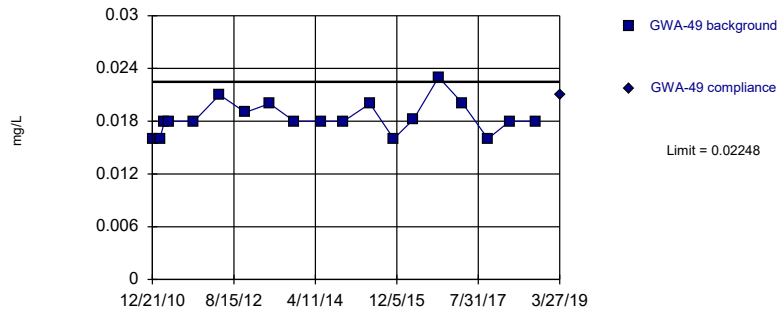


Background Data Summary (based on square transformation): Mean=0.0002286, Std. Dev.=0.00009411, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9056, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

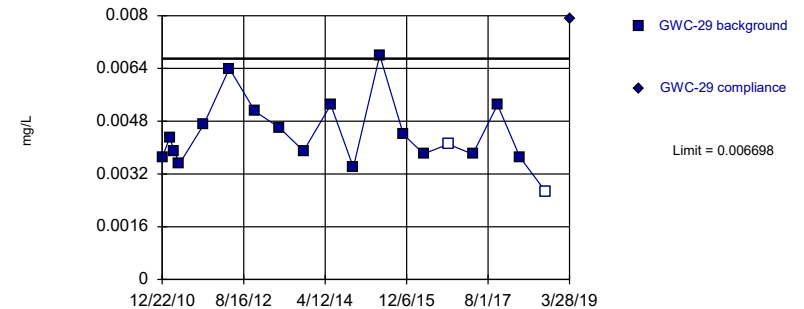


Background Data Summary: Mean=0.01838, Std. Dev.=0.00183, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8844, critical = 0.863. Kappa = 2.24 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

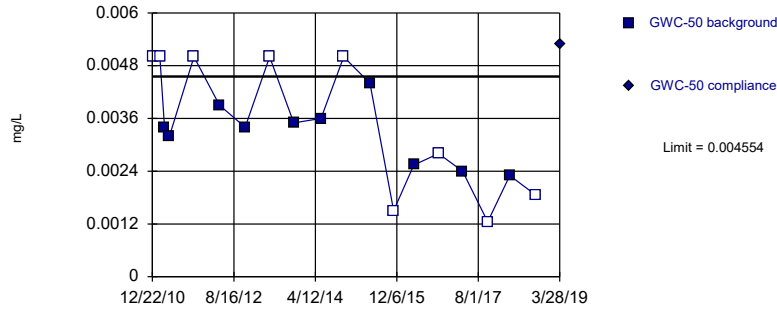


Background Data Summary: Mean=0.004387, Std. Dev.=0.001032, n=19, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9277, critical = 0.863. Kappa = 2.24 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

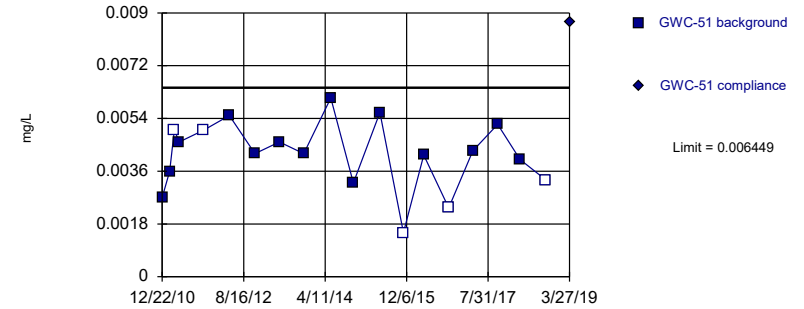


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003026, Std. Dev.=0.0006819, n=19, 47.37% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.863. Kappa = 2.24 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

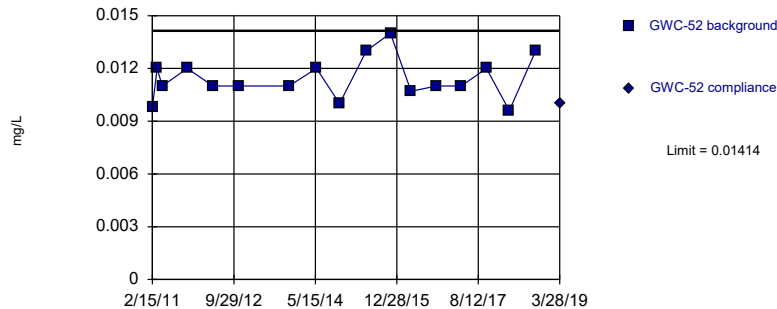


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004156, Std. Dev.=0.001024, n=19, 26.32% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9732, critical = 0.863. Kappa = 2.24 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

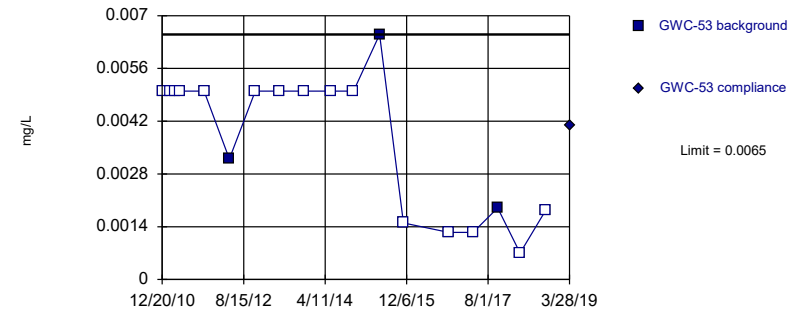


Background Data Summary: Mean=0.01142, Std. Dev.=0.001187, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.851. Kappa = 2.296 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



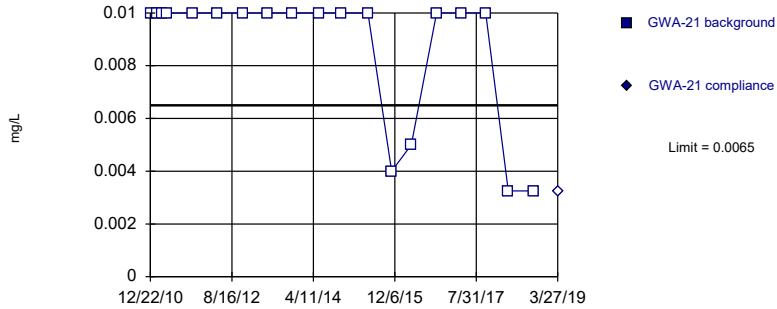
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



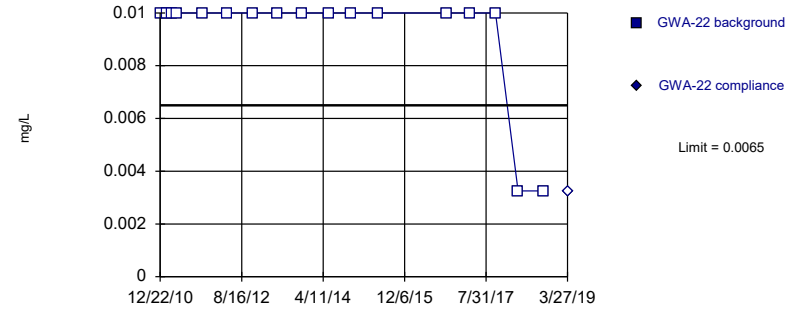
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



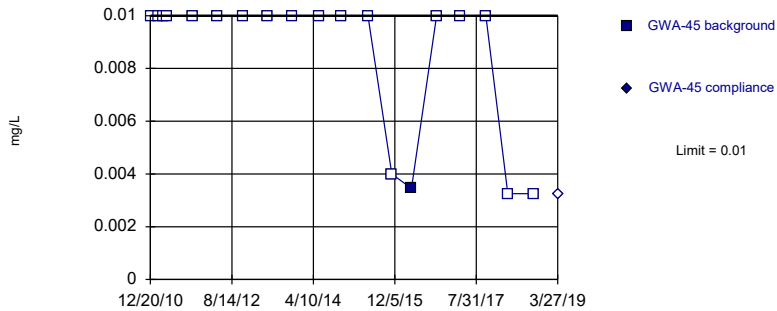
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



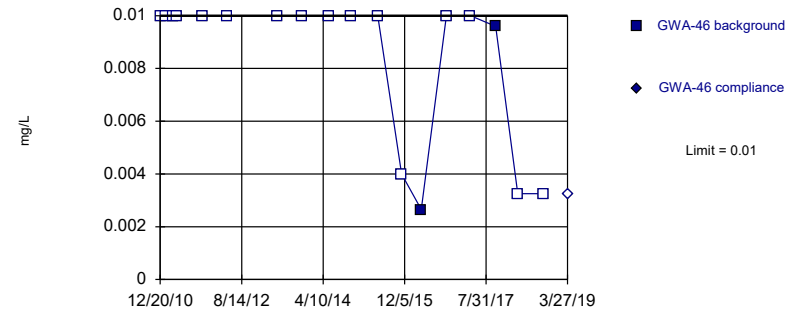
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



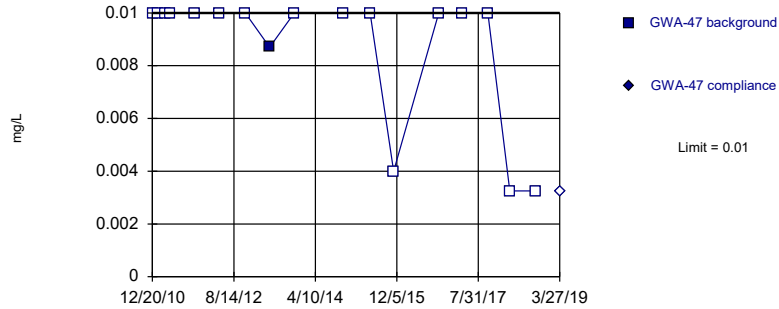
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



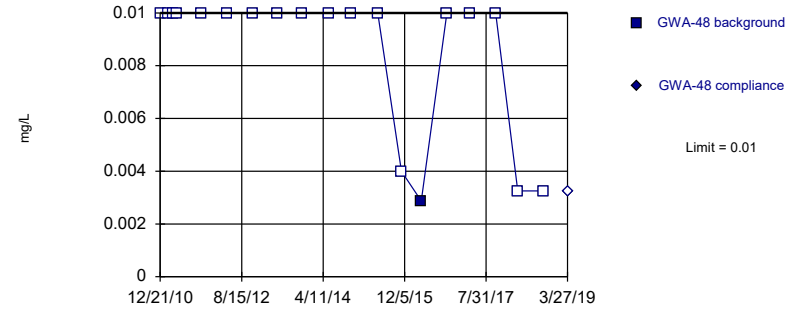
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



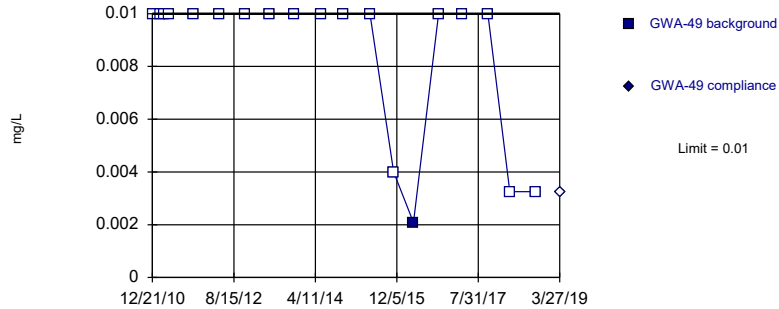
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



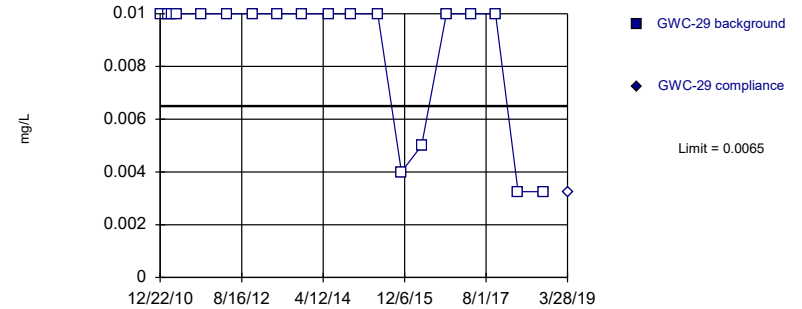
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



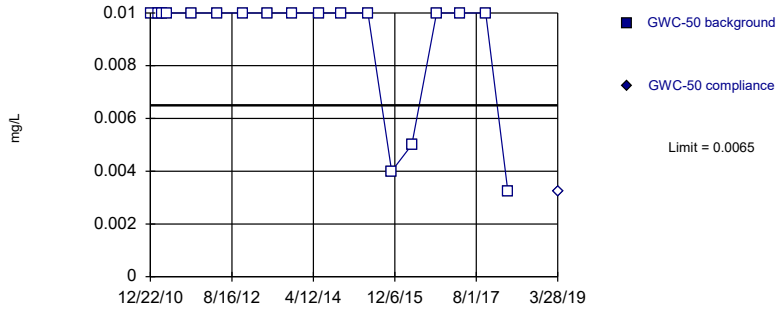
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Non-parametric

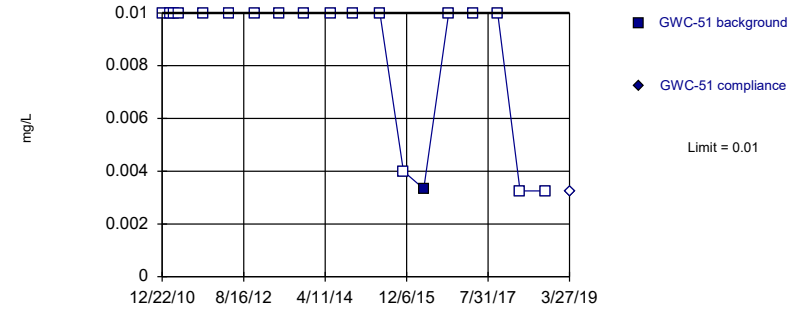


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

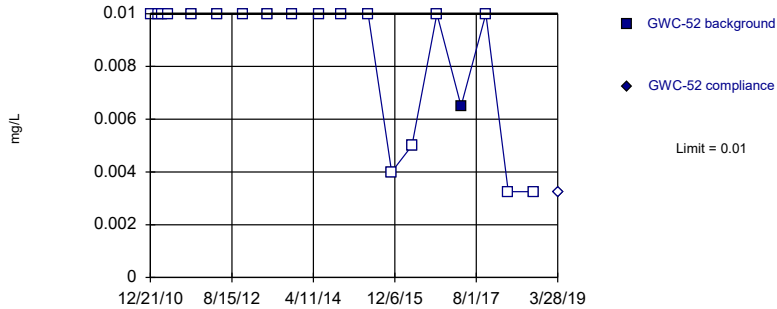


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

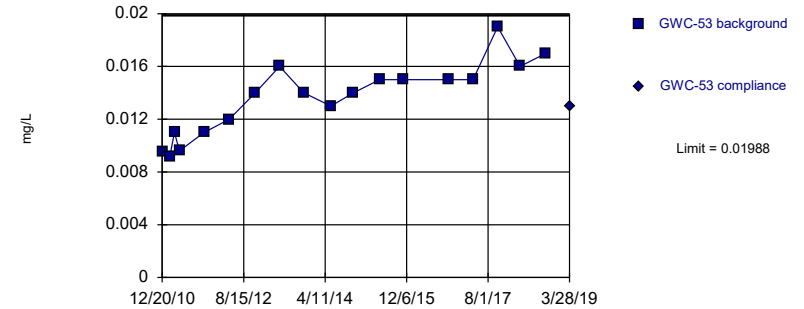


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

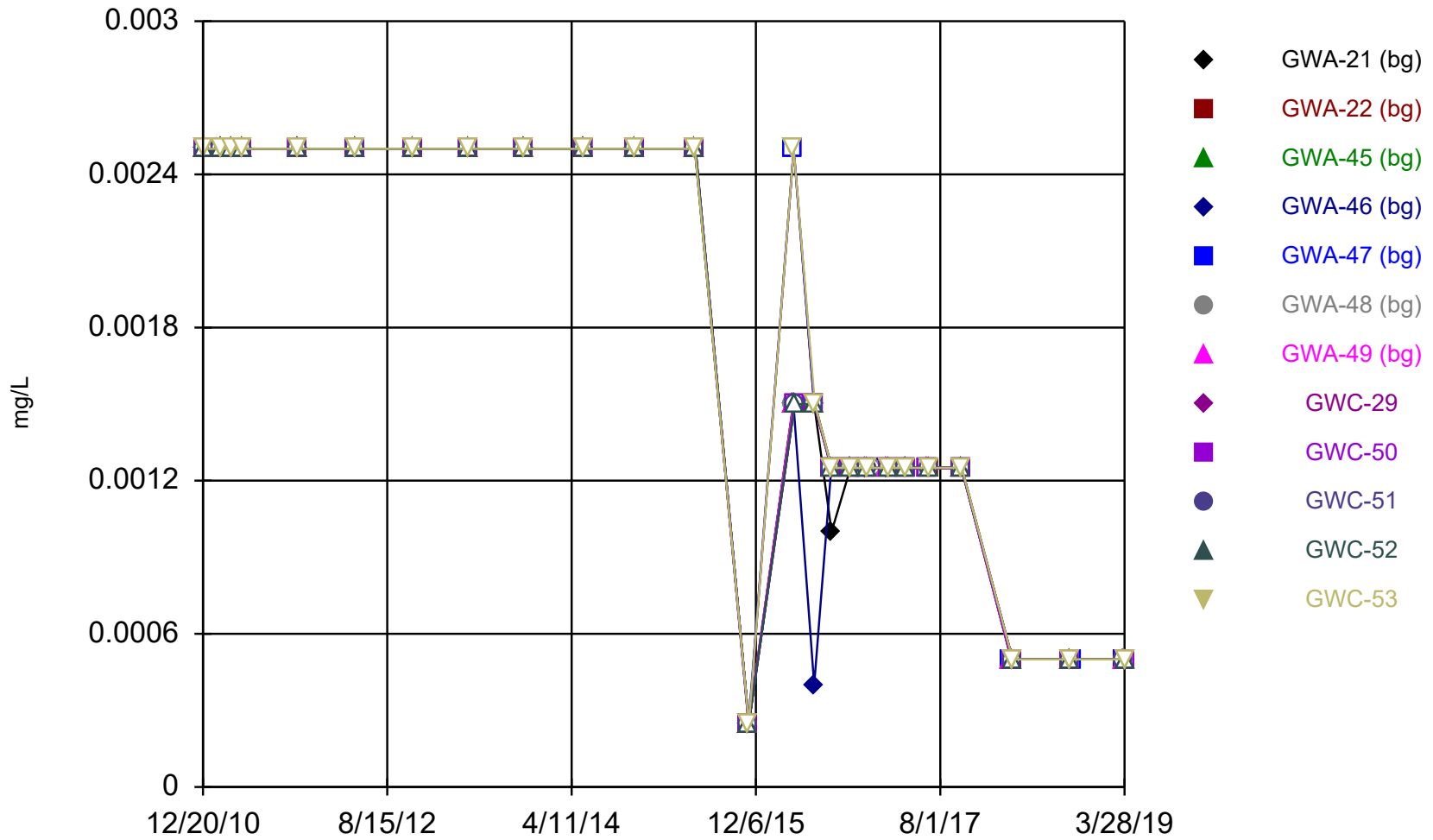
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01363, Std. Dev.=0.002756, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

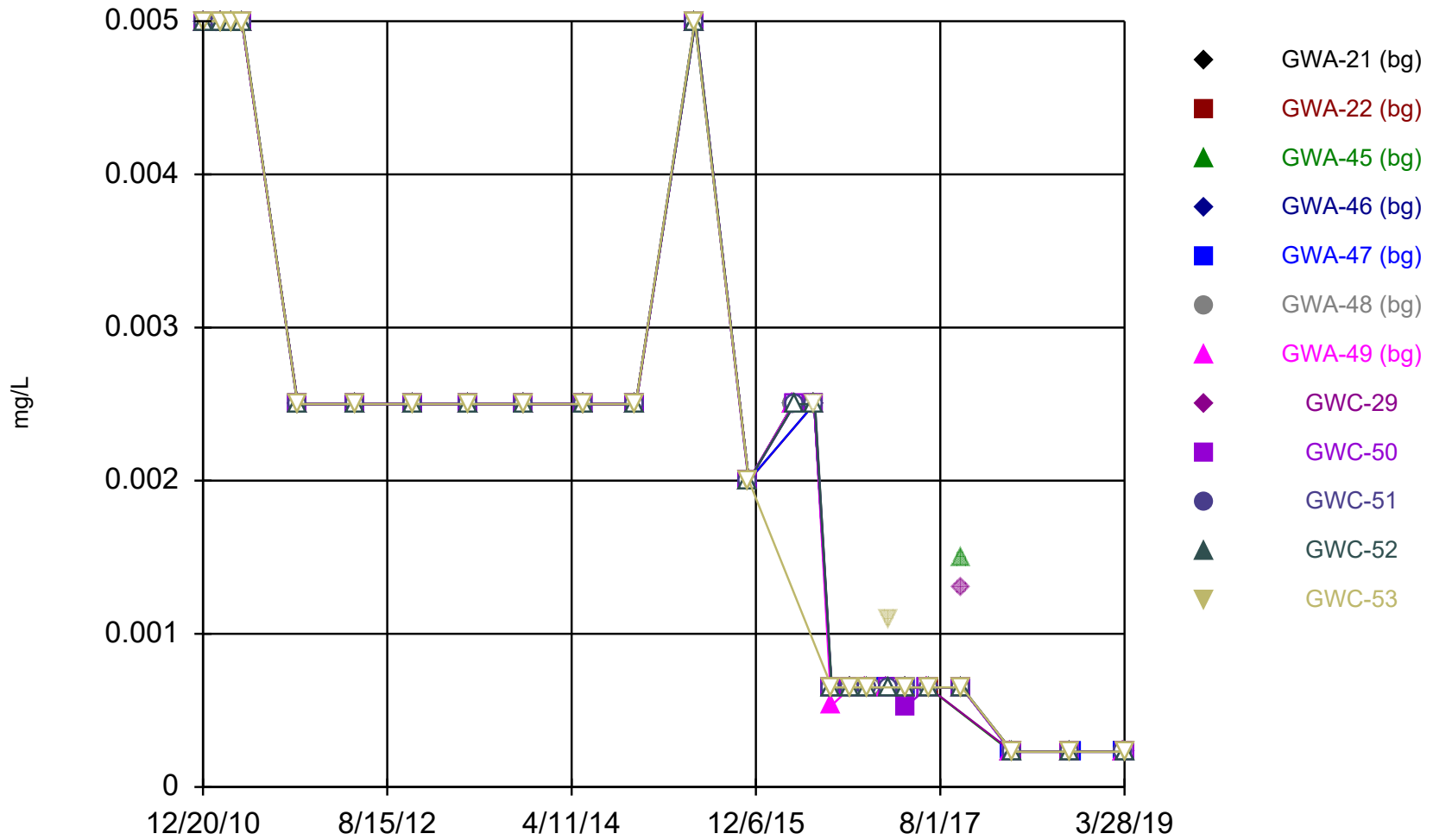
### Time Series



Constituent: Antimony, Total Analysis Run 8/8/2019 11:25 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

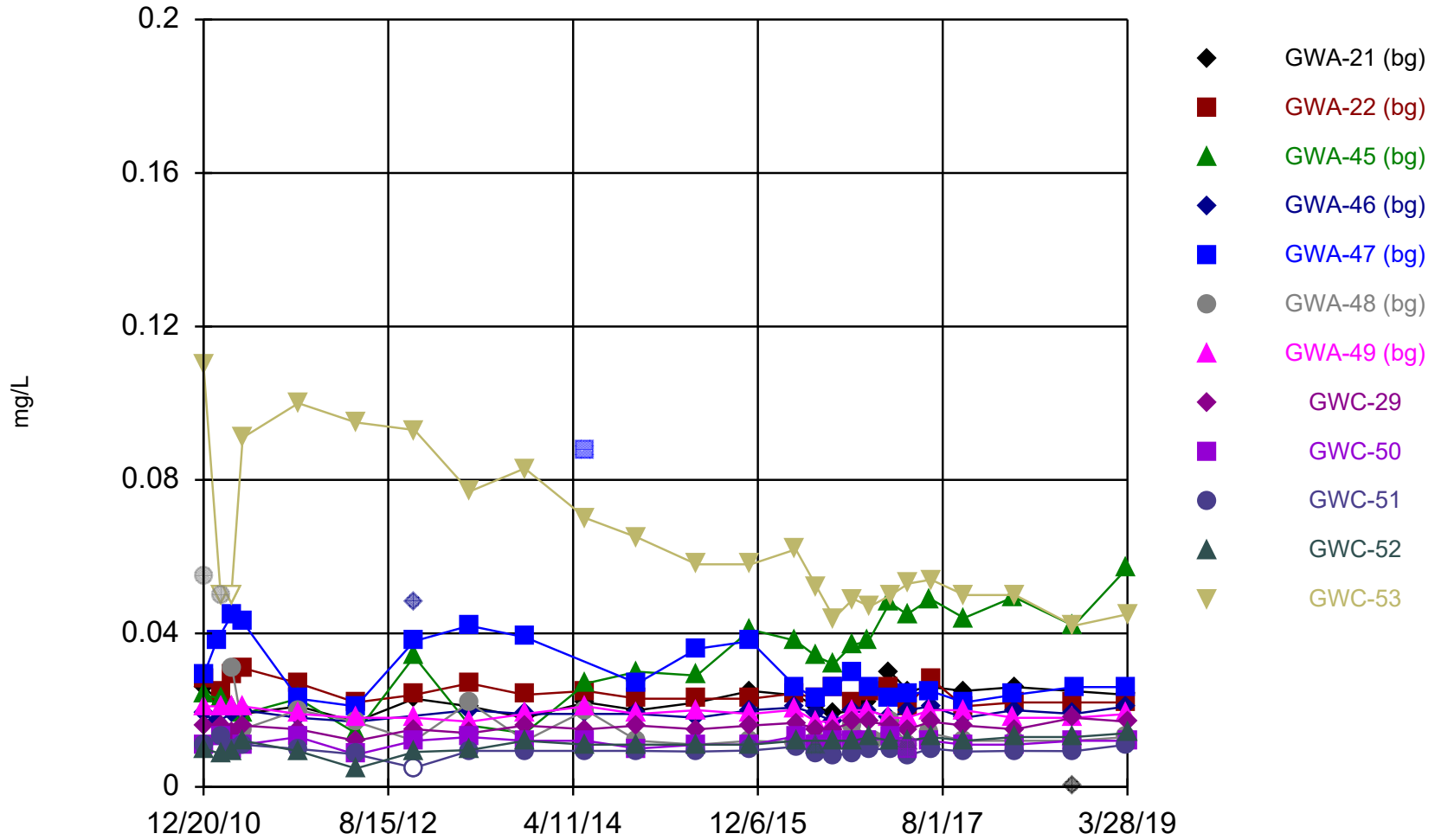
### Time Series



Constituent: Arsenic, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

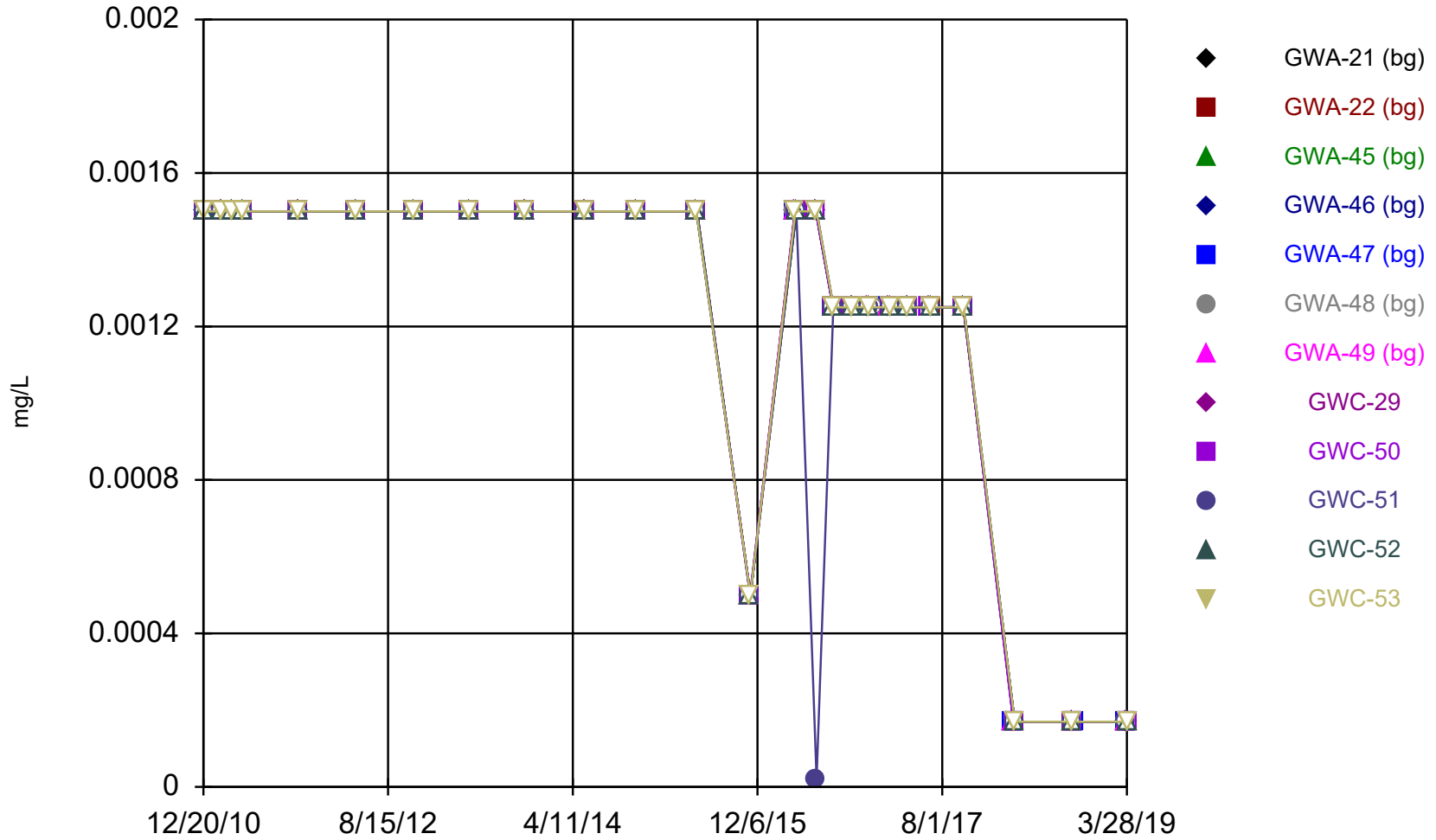
### Time Series



Constituent: Barium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

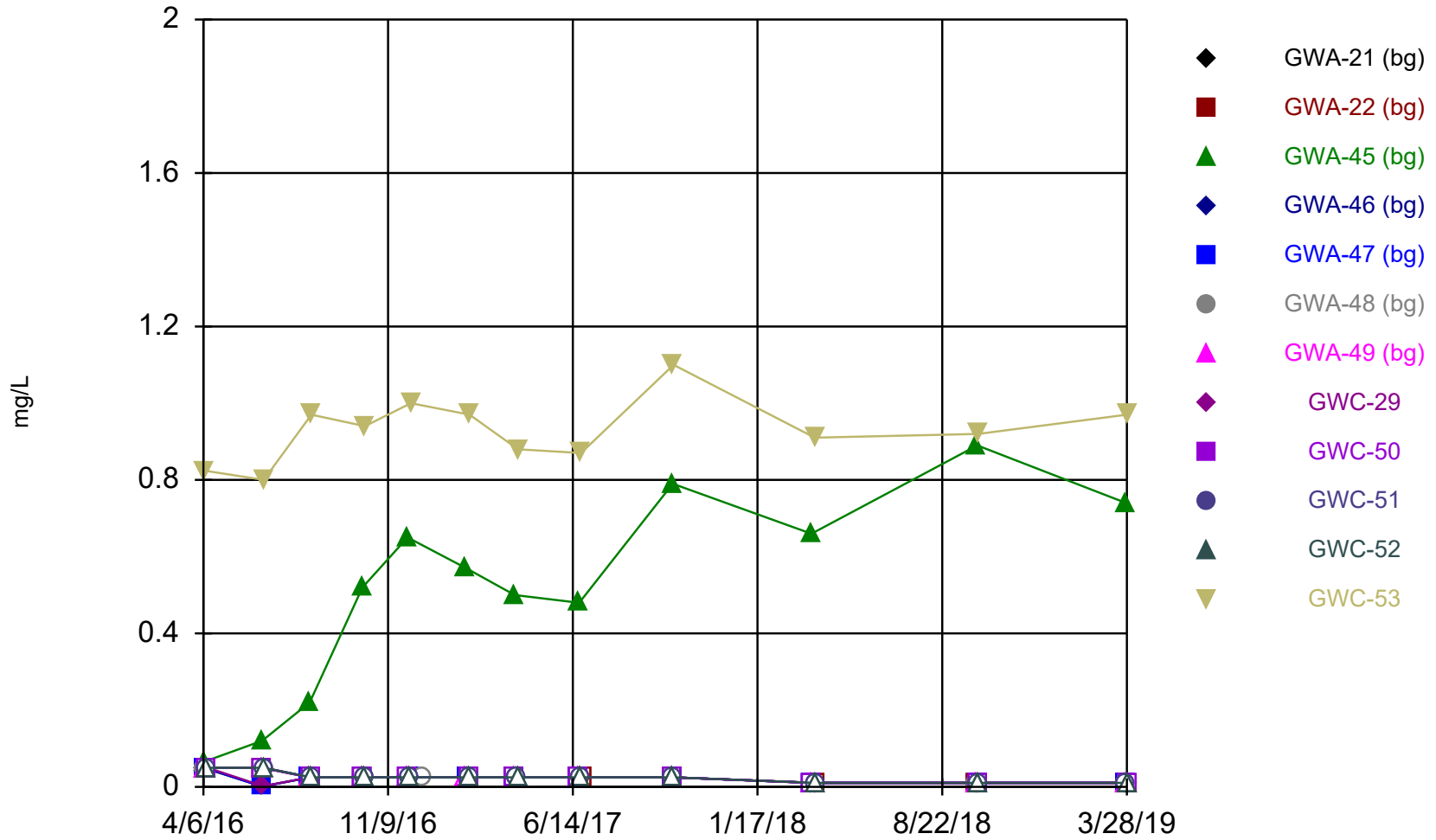
### Time Series



Constituent: Beryllium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

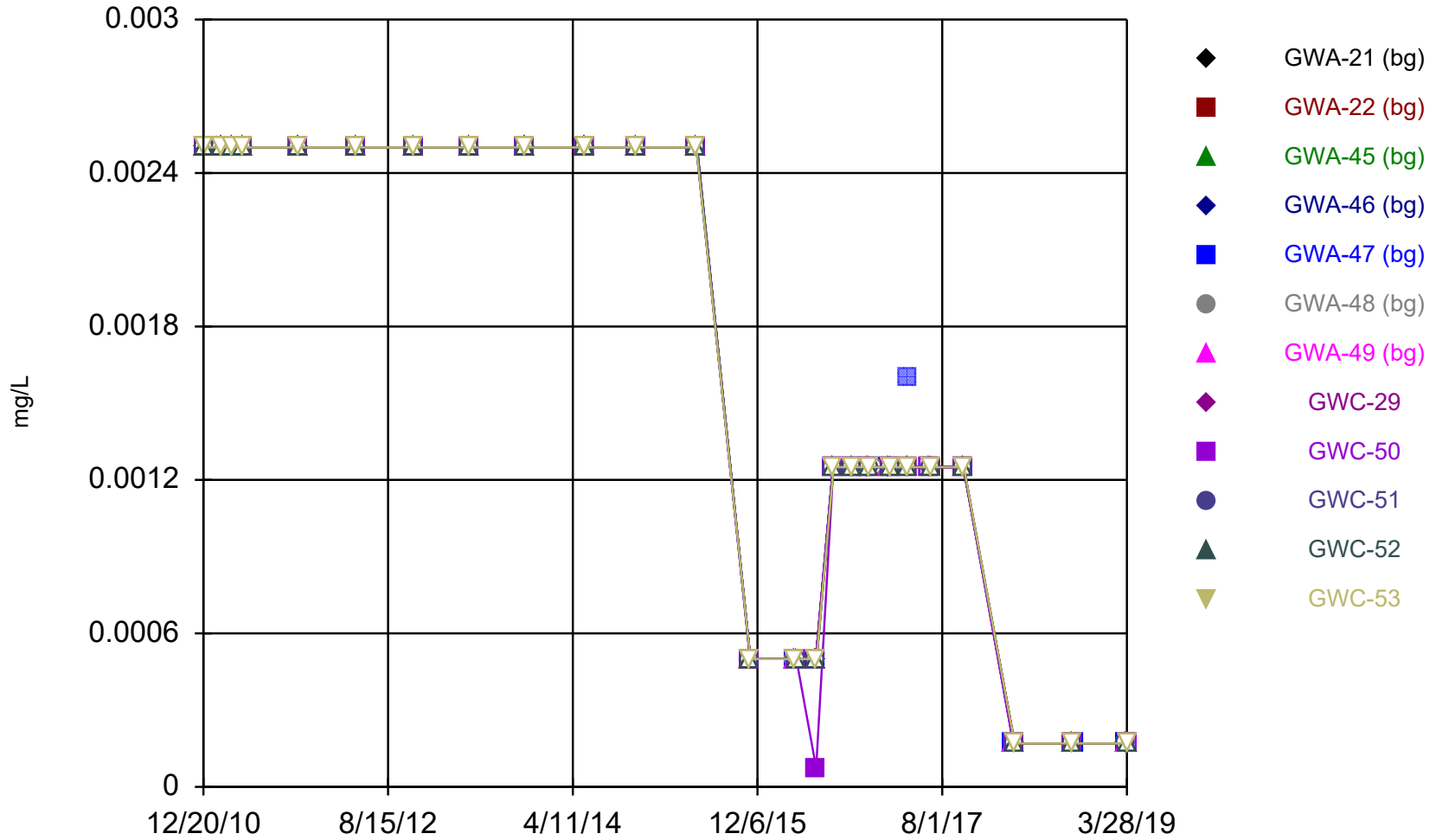
Scherer Client: Golder Associates Data: Scherer PAC CCR

## Time Series



Constituent: Boron Analysis Run 8/8/2019 11:26 AM View: State LF Constituents  
Scherer Client: Golder Associates Data: Scherer PAC CCR

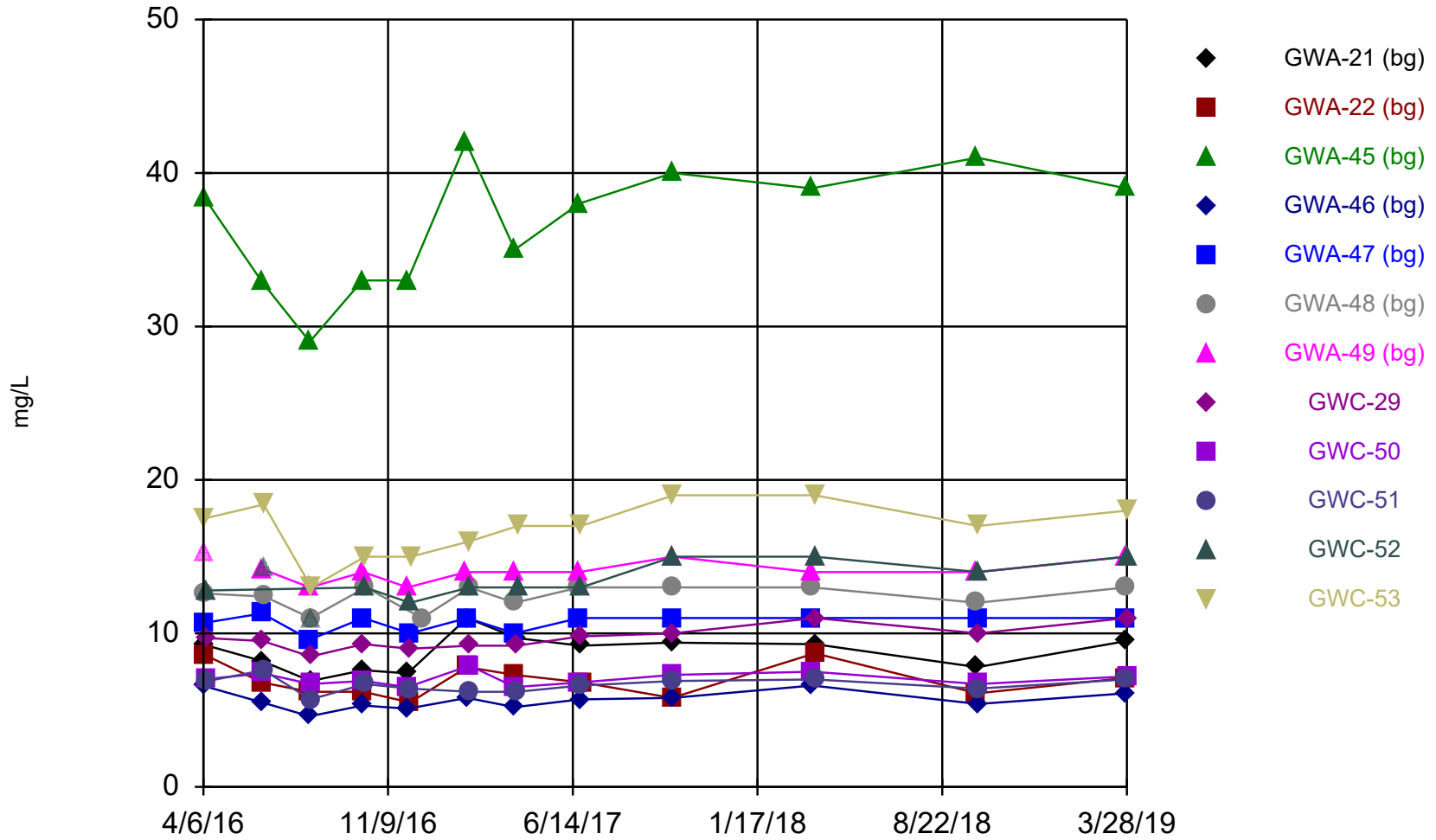
### Time Series



Constituent: Cadmium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series

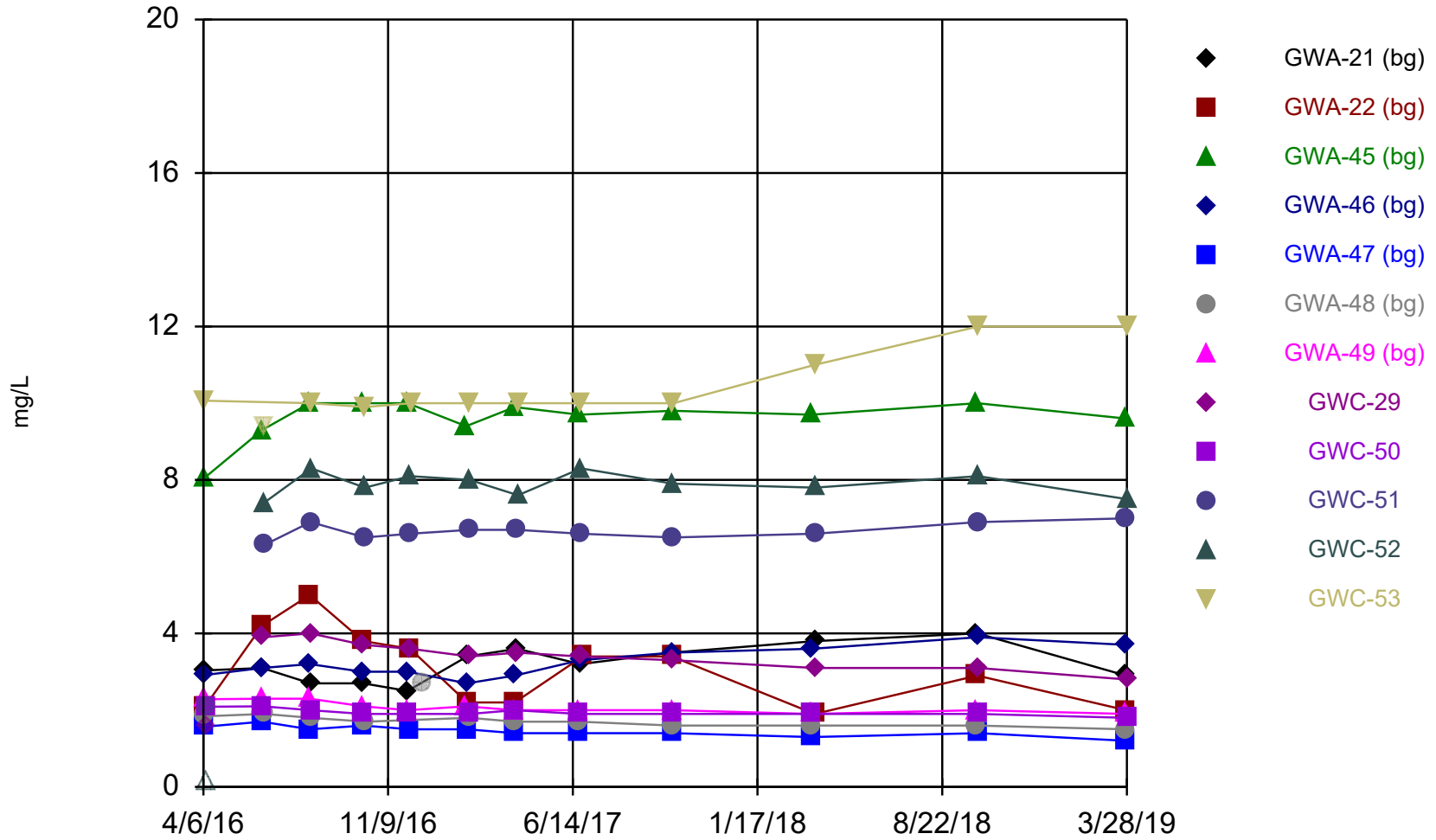


Constituent: Calcium Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

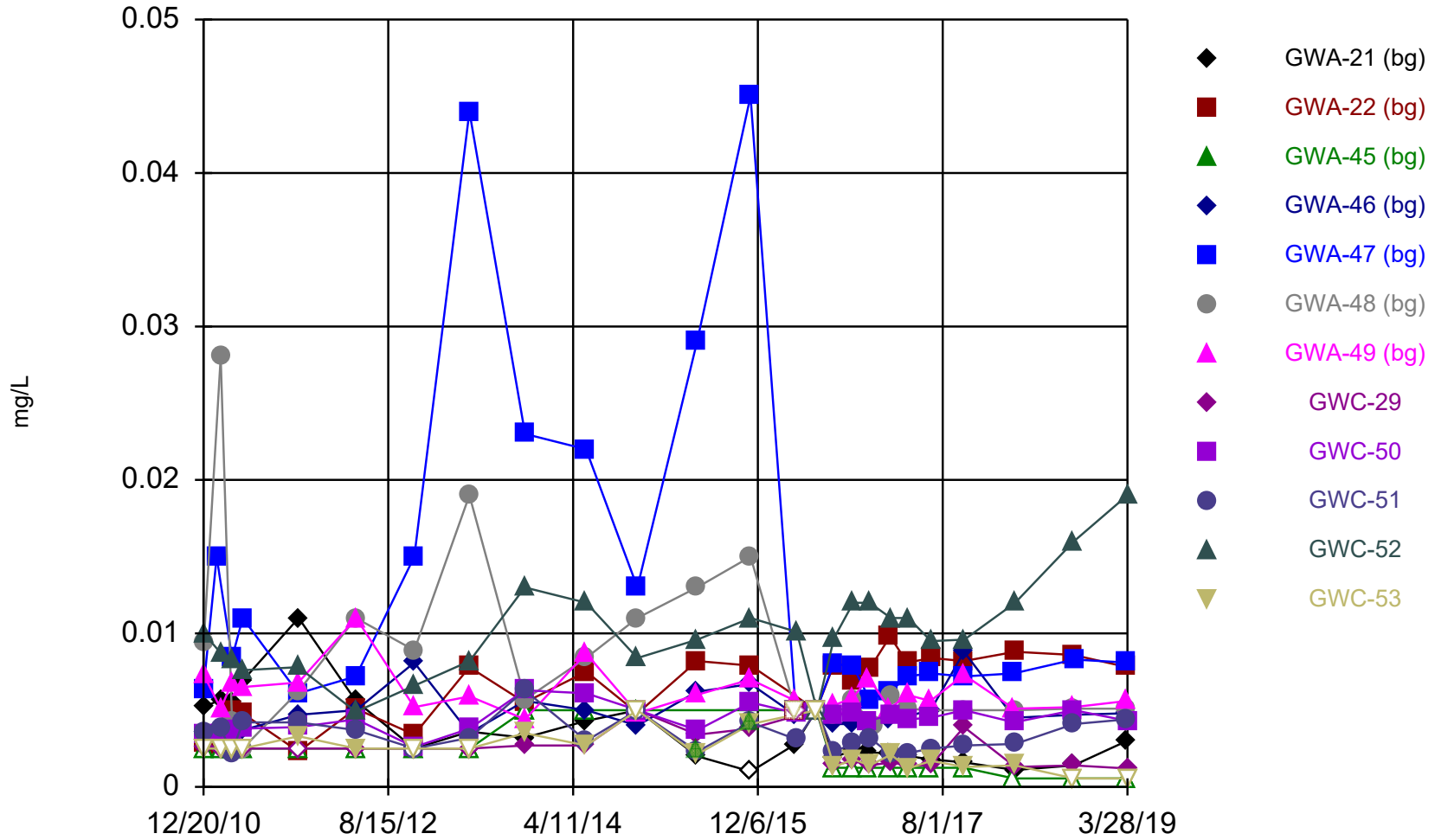


### Time Series



Constituent: Chloride Analysis Run 8/8/2019 11:26 AM View: State LF Constituents  
Scherer Client: Golder Associates Data: Scherer PAC CCR

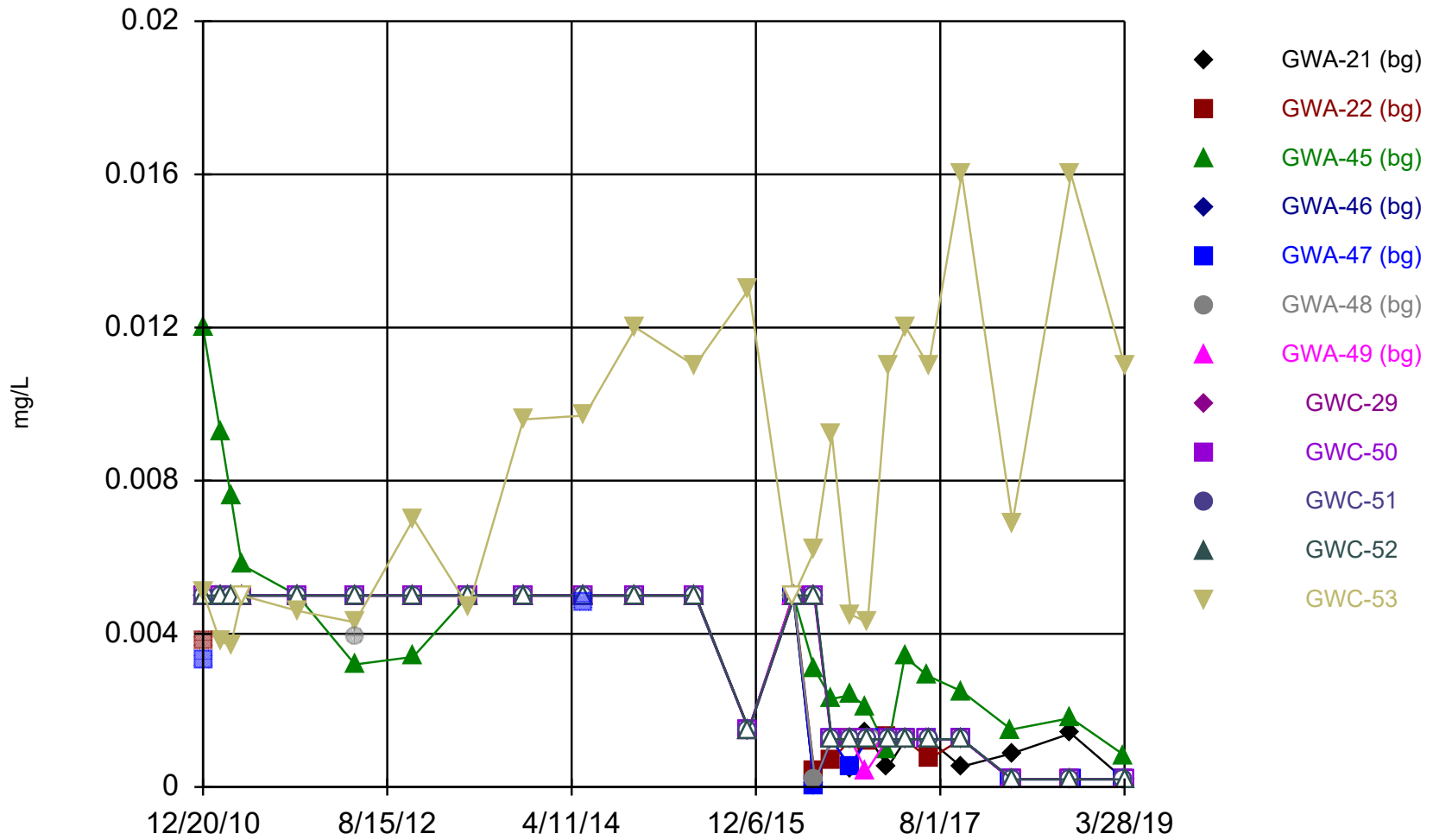
### Time Series



Constituent: Chromium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

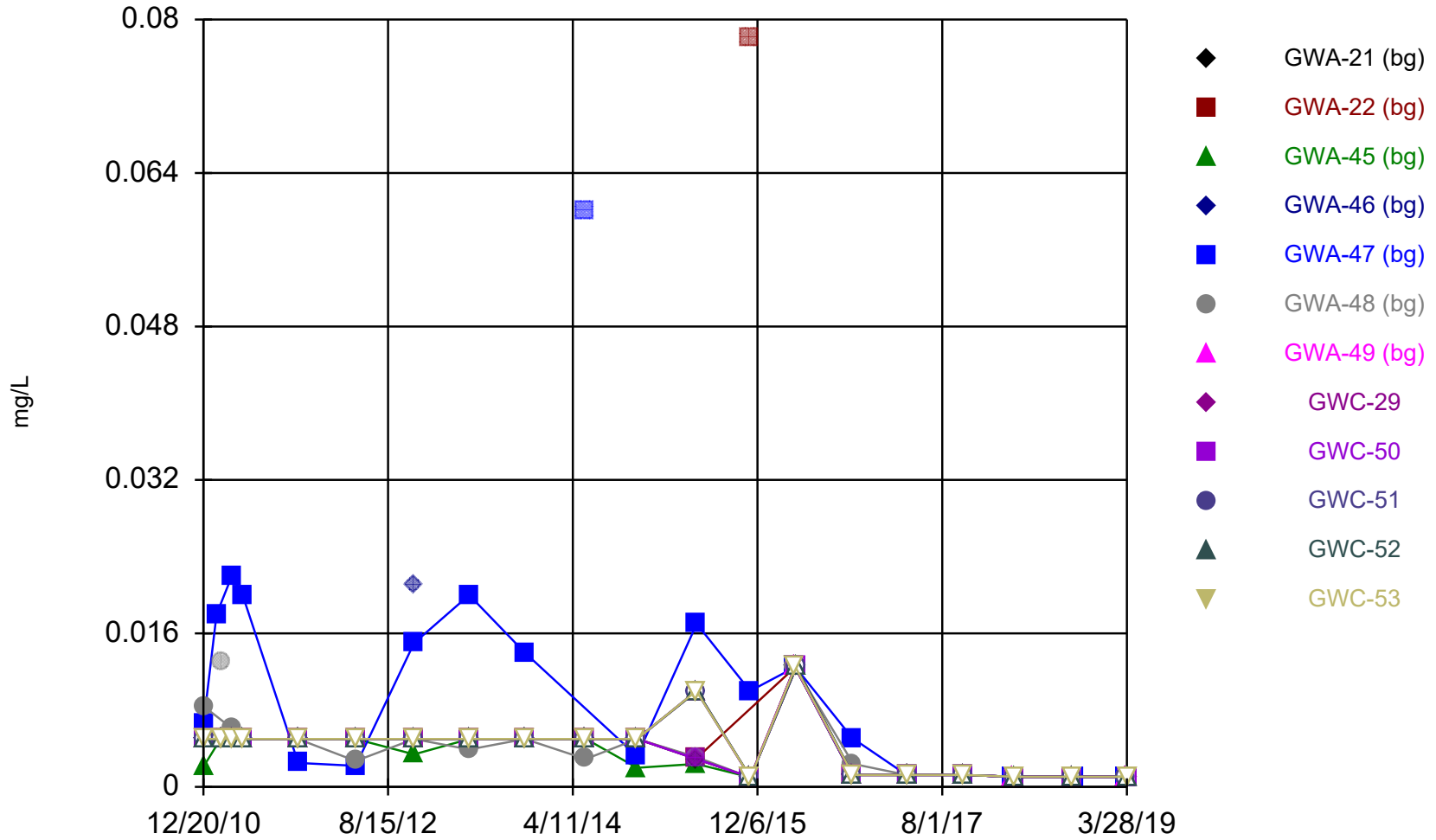
### Time Series



Constituent: Cobalt, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

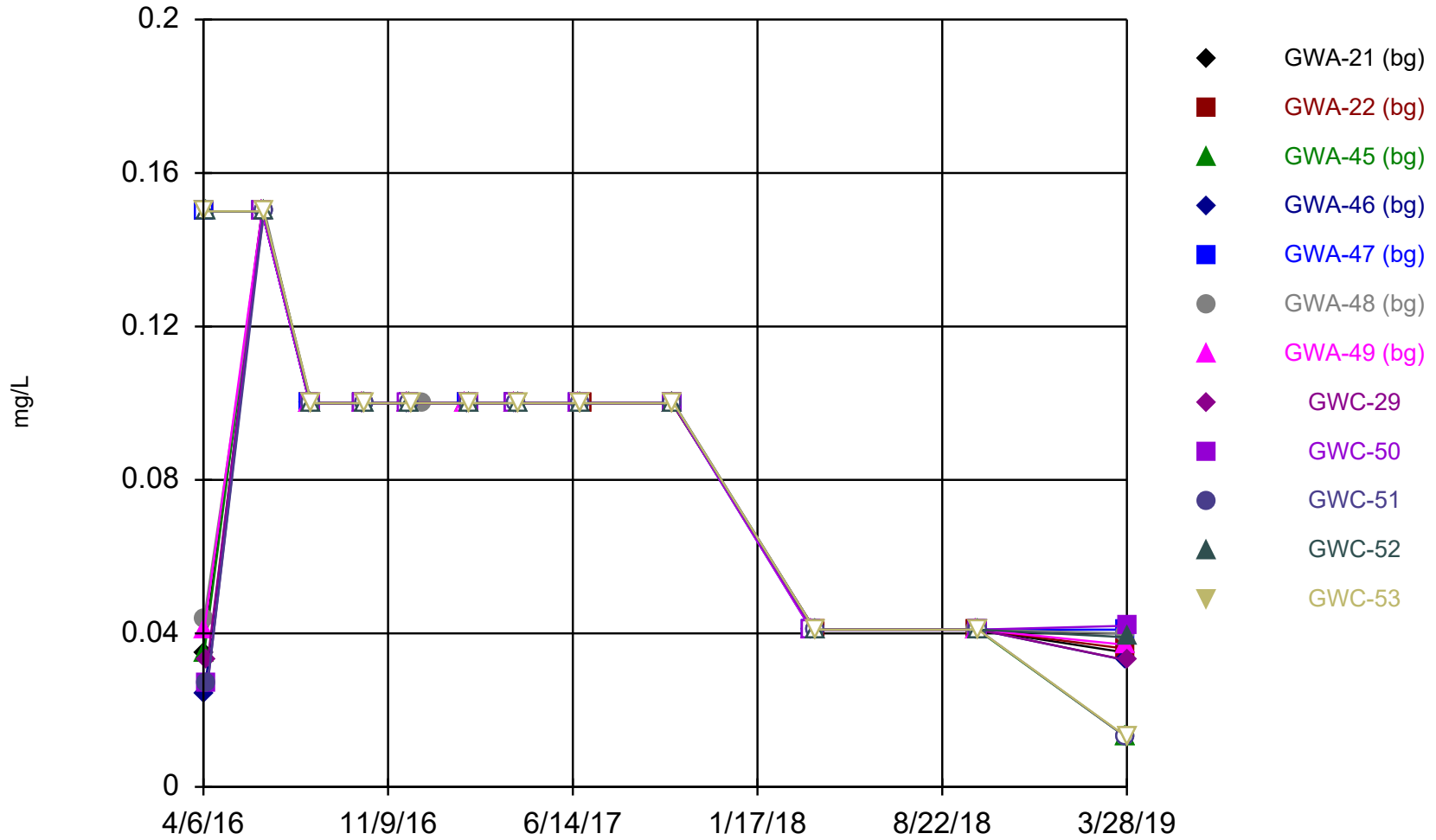
### Time Series



Constituent: Copper, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

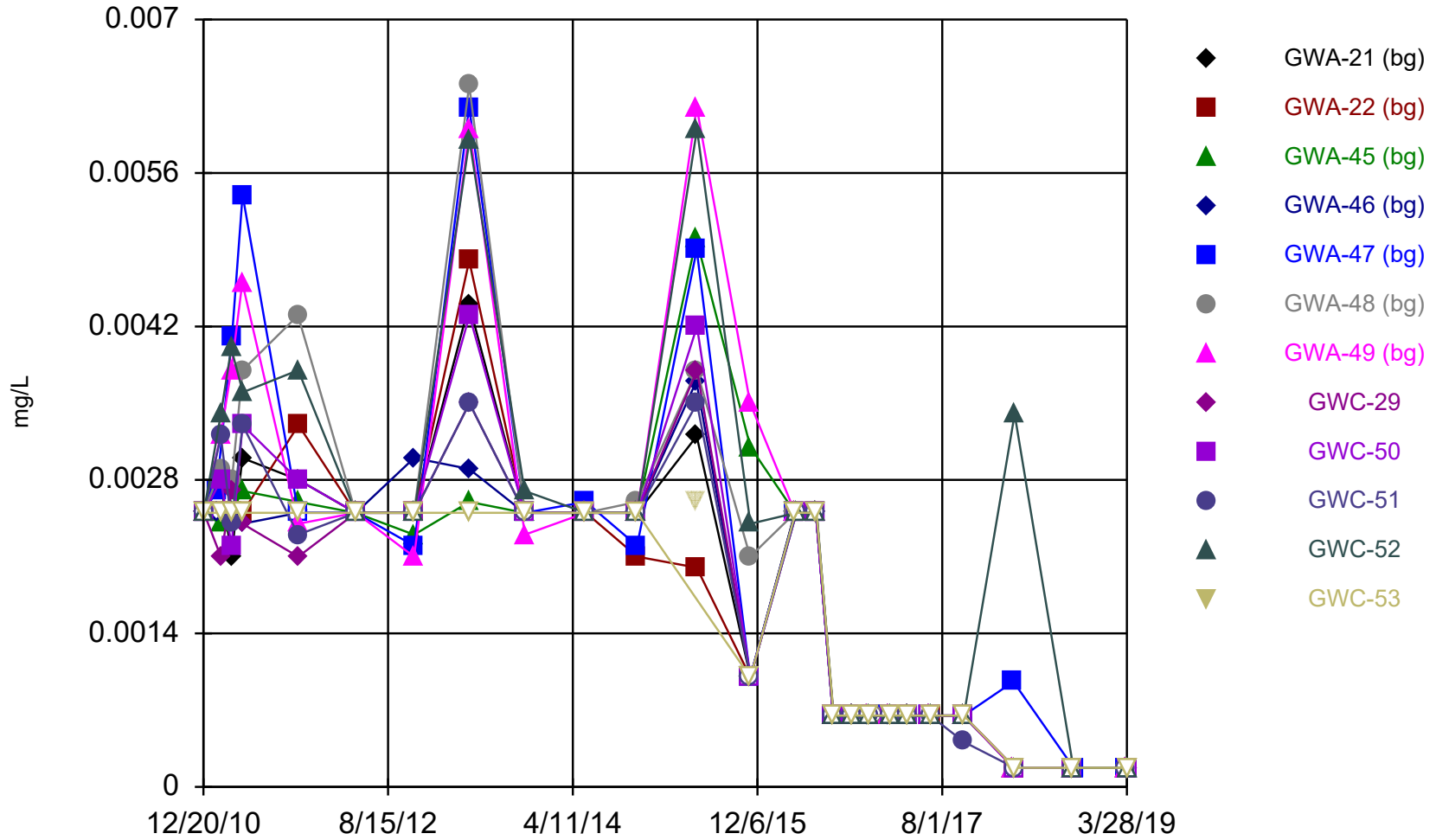
### Time Series



Constituent: Fluoride Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

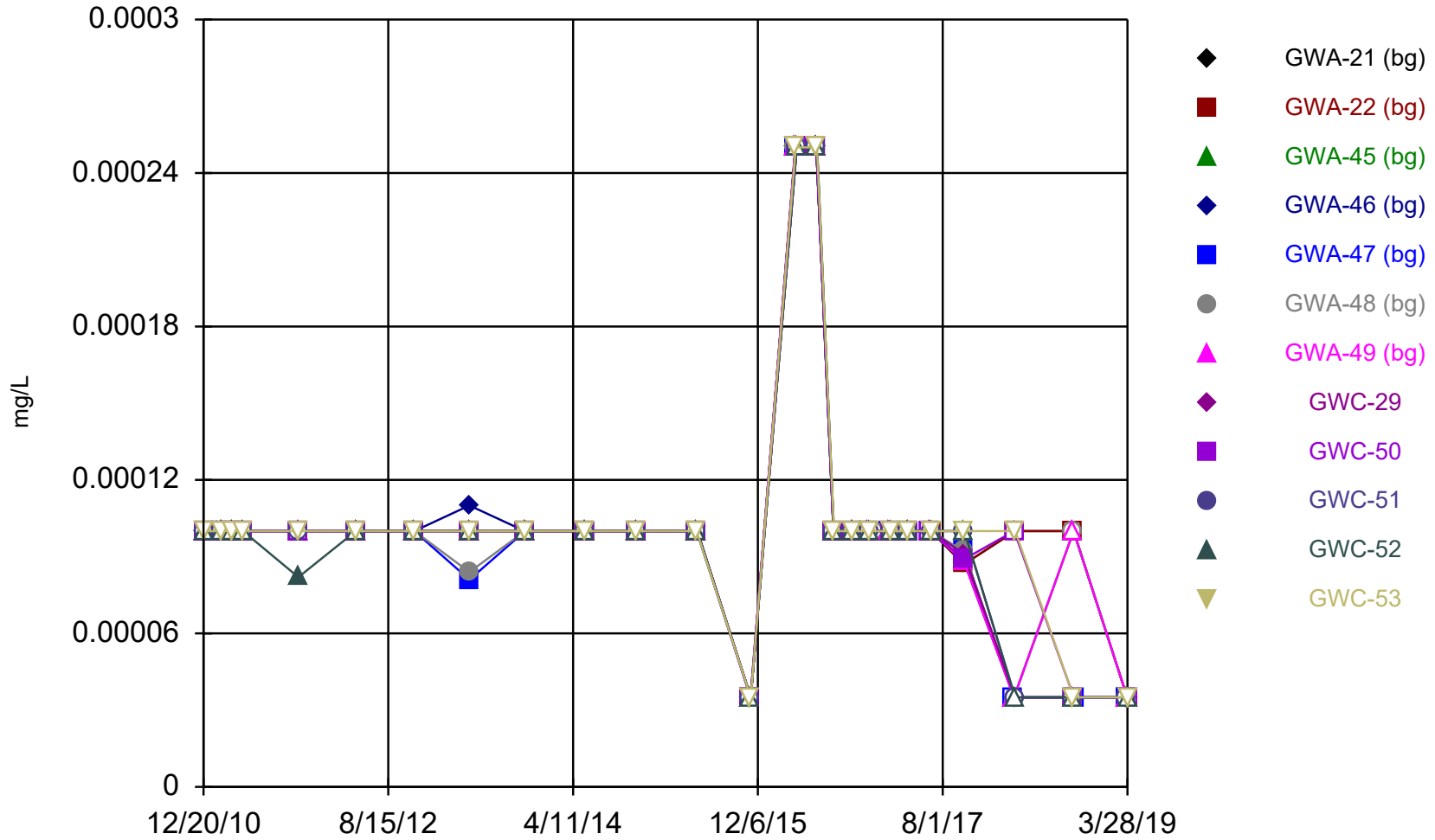
### Time Series



Constituent: Lead, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

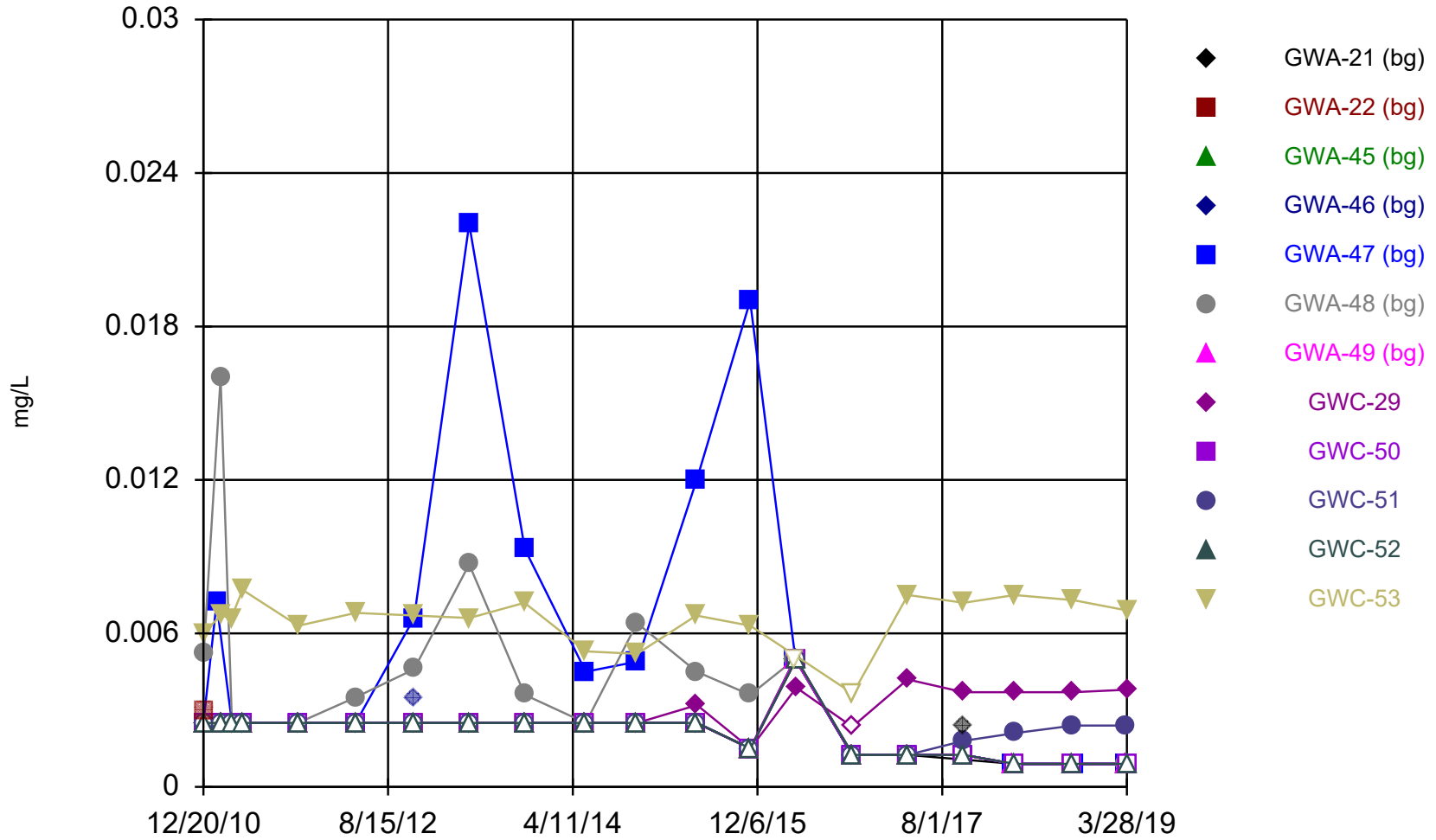
### Time Series



Constituent: Mercury, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series

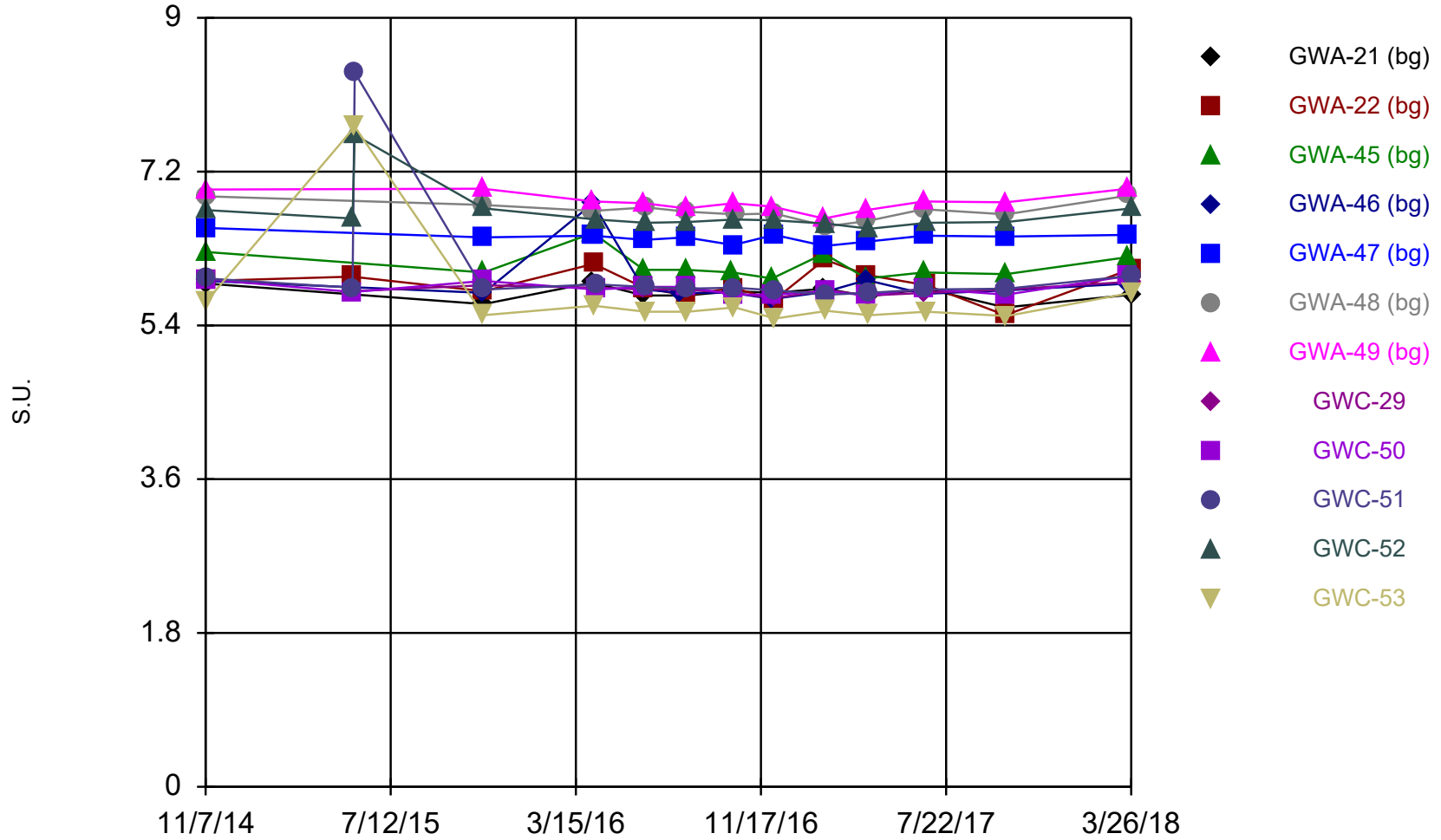


Constituent: Nickel, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR



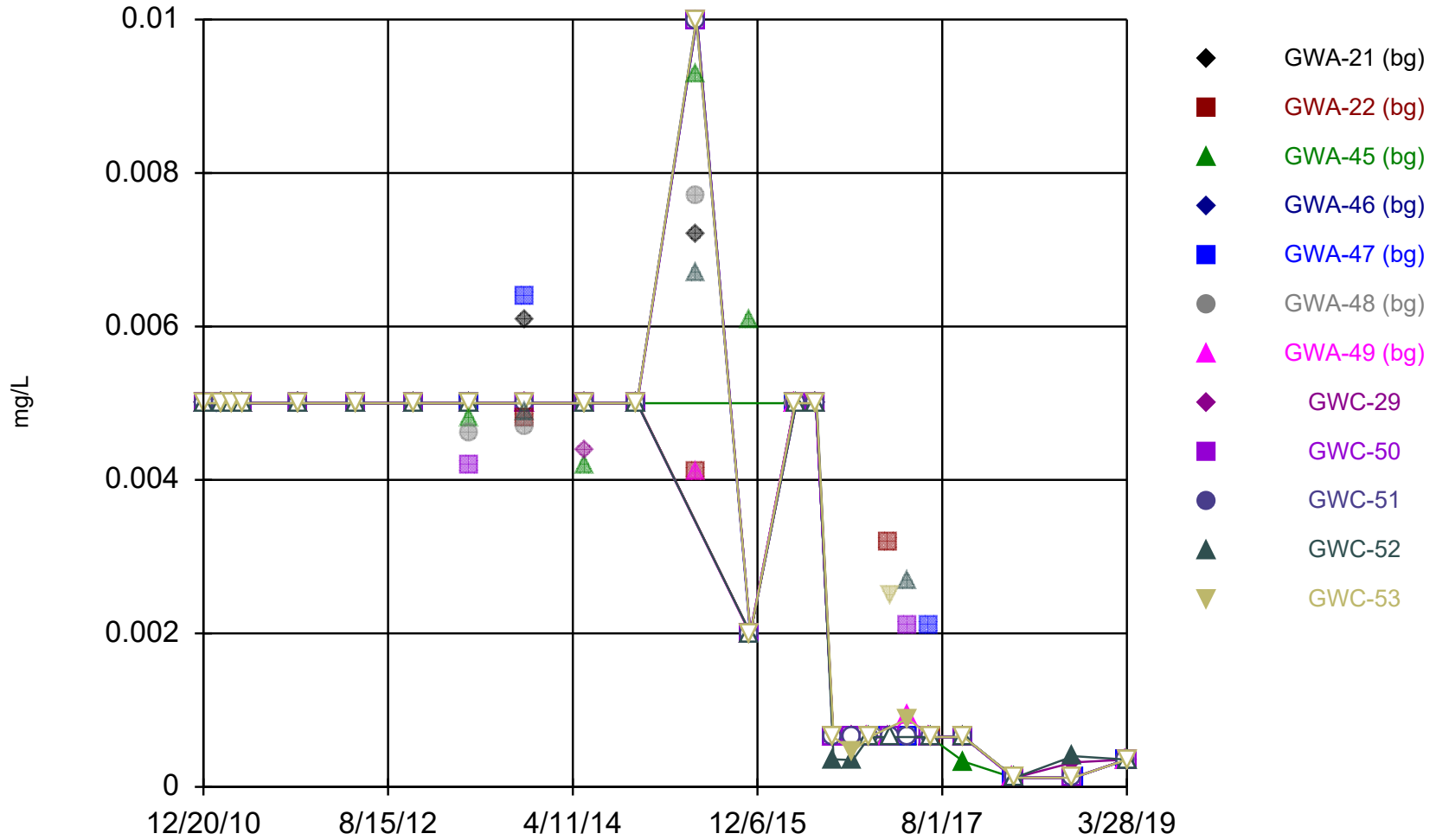
### Time Series



Constituent: pH Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

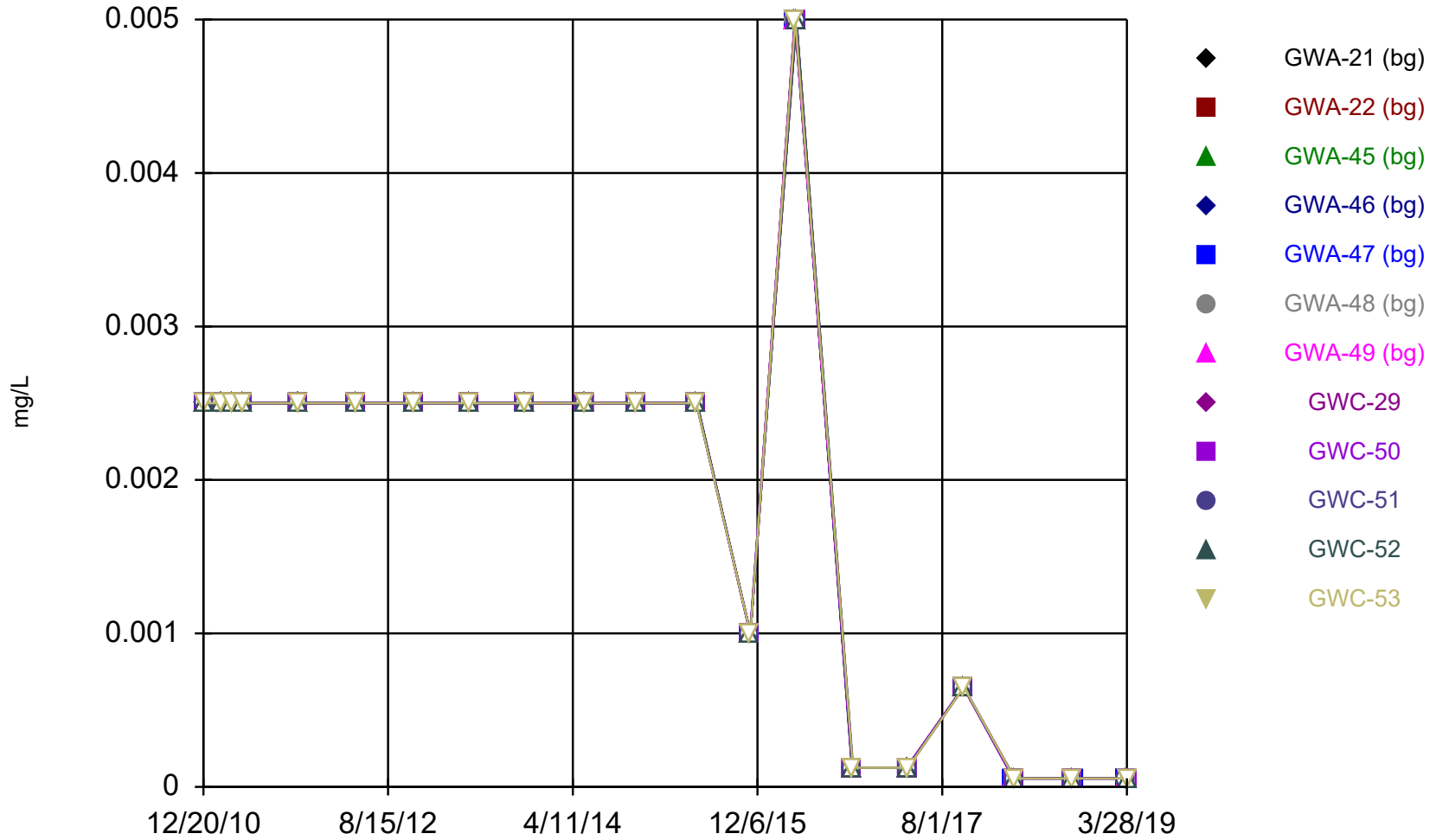
### Time Series



Constituent: Selenium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

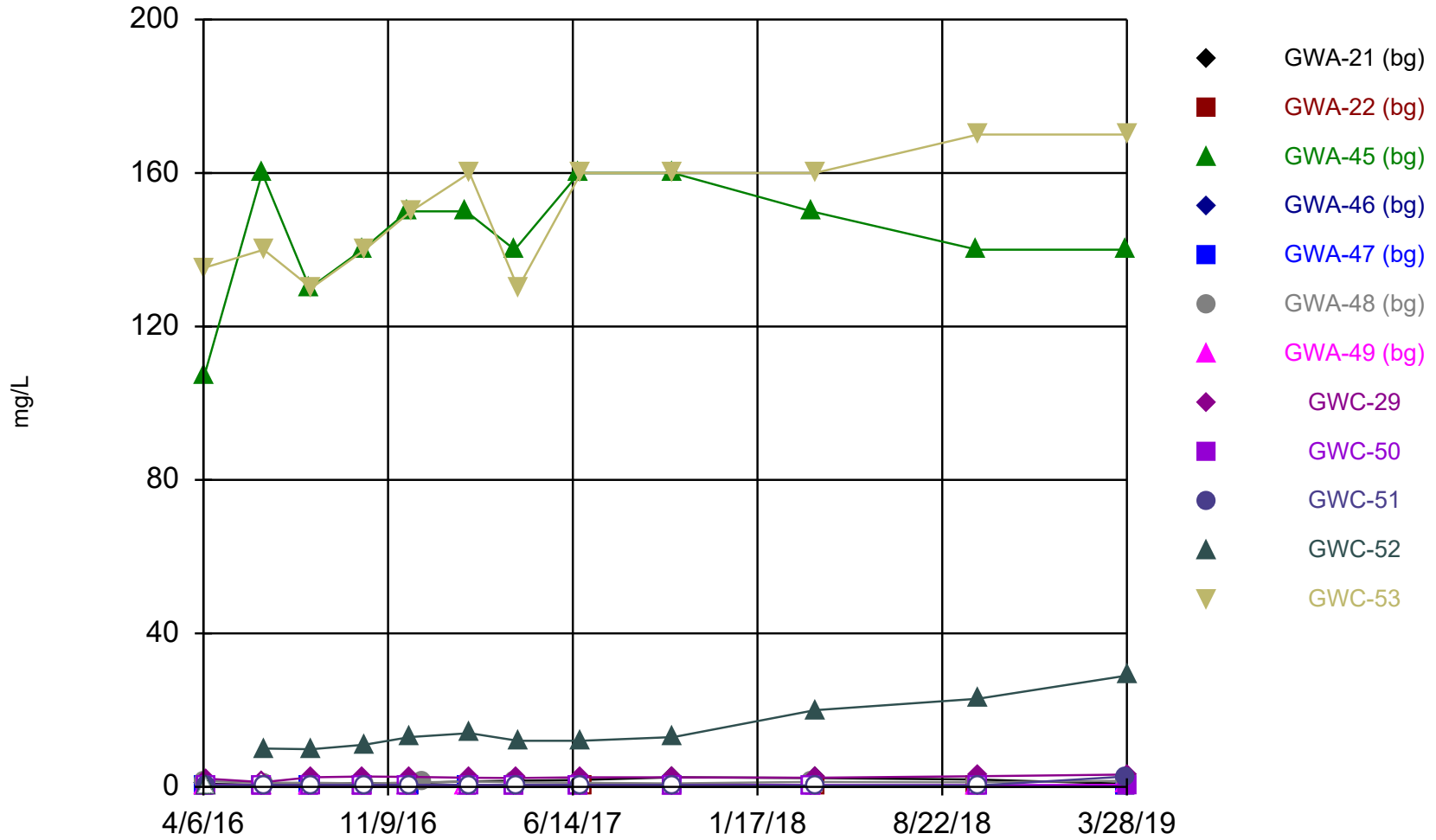
### Time Series



Constituent: Silver, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

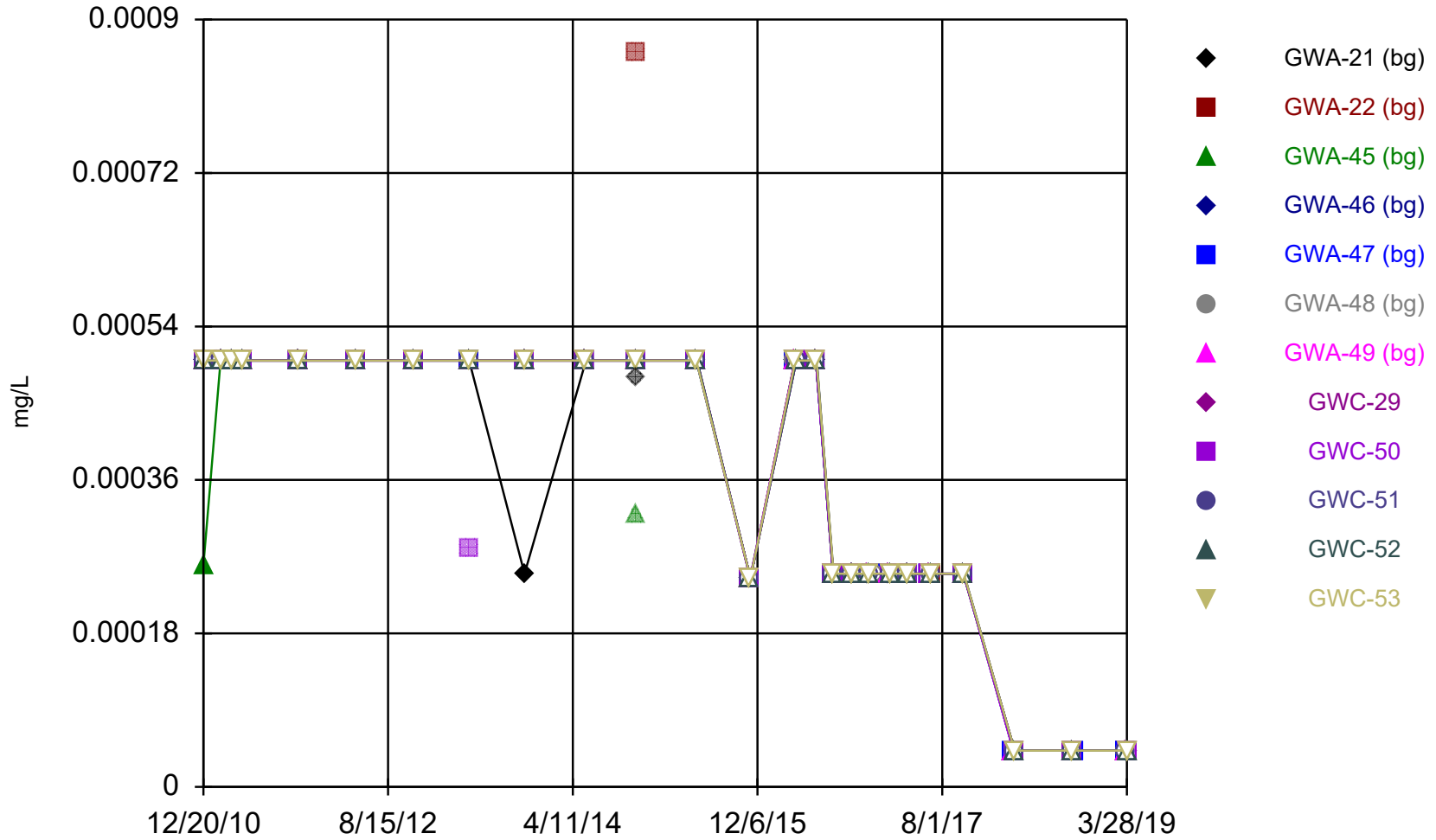
### Time Series



Constituent: Sulfate Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

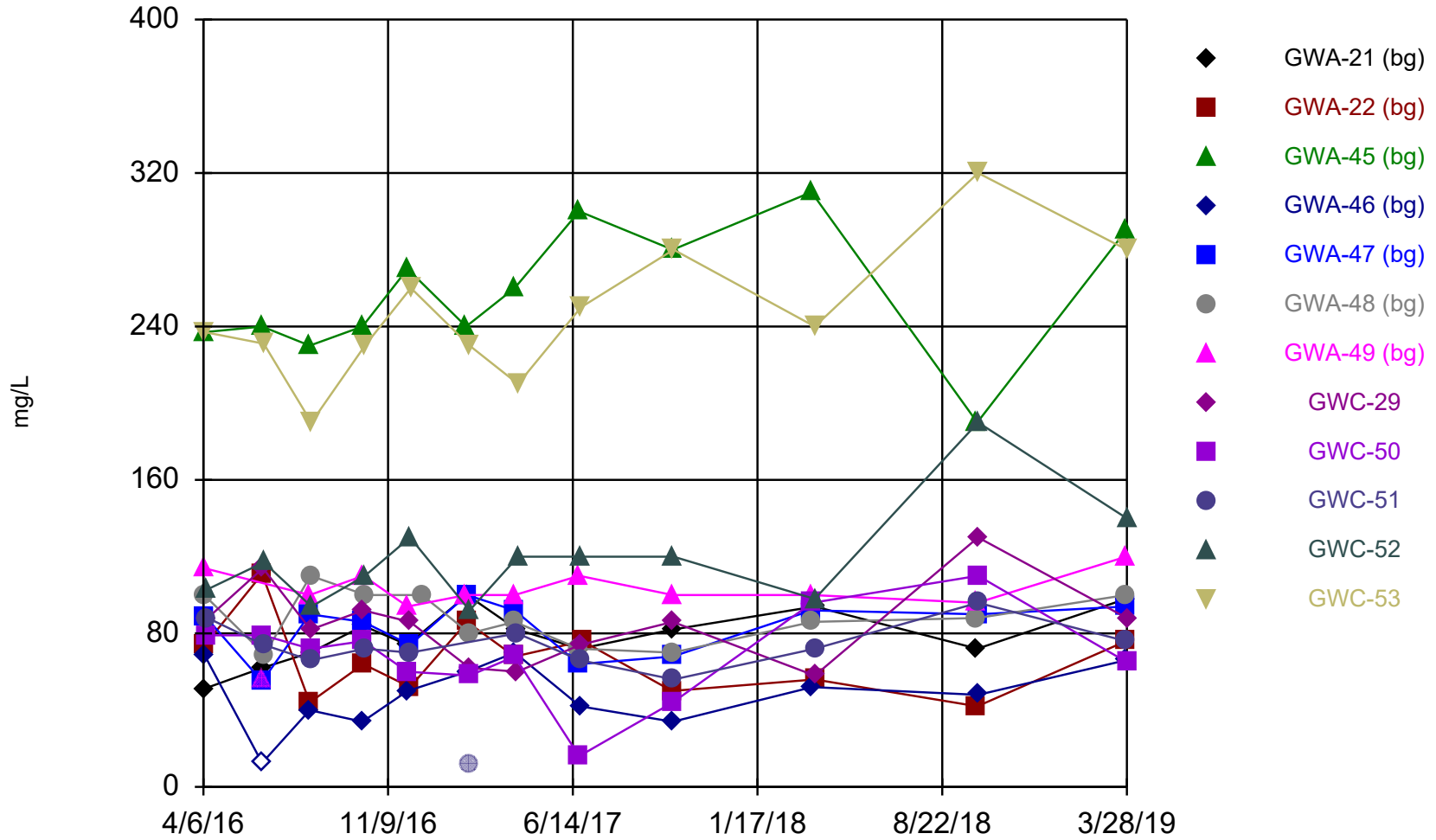
### Time Series



Constituent: Thallium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

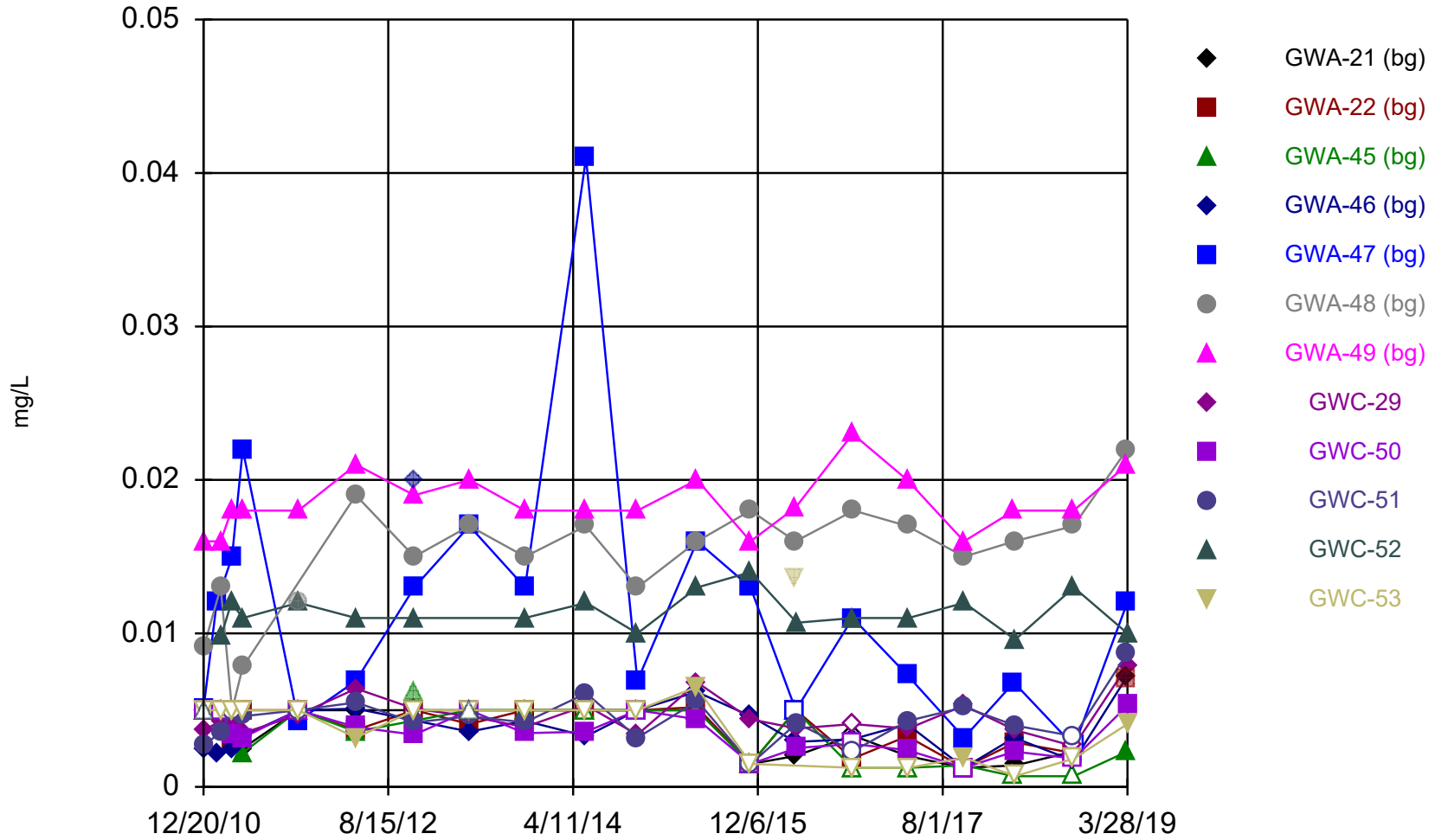
### Time Series



Constituent: Total Dissolved Solids Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

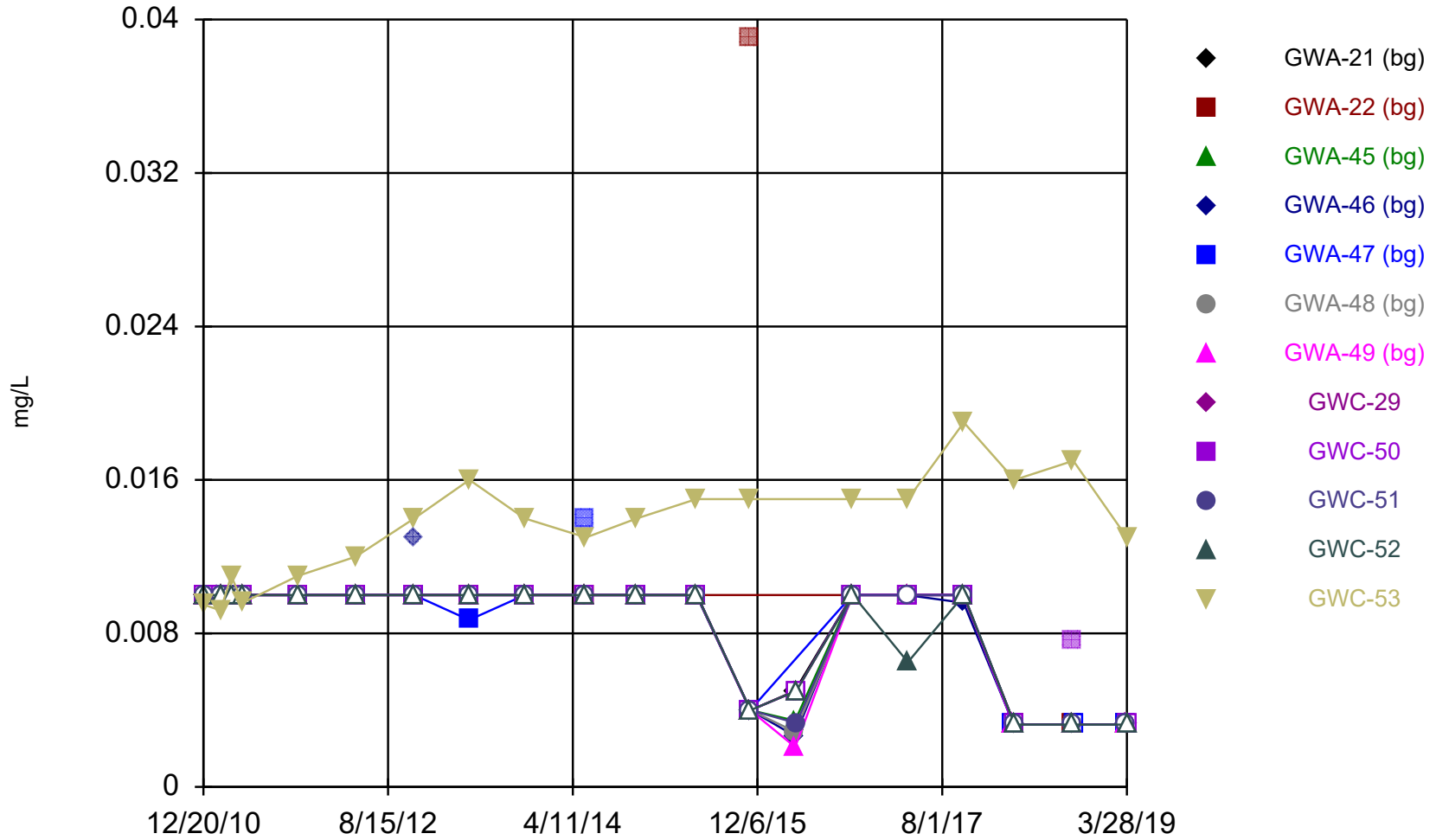
### Time Series



Constituent: Vanadium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series



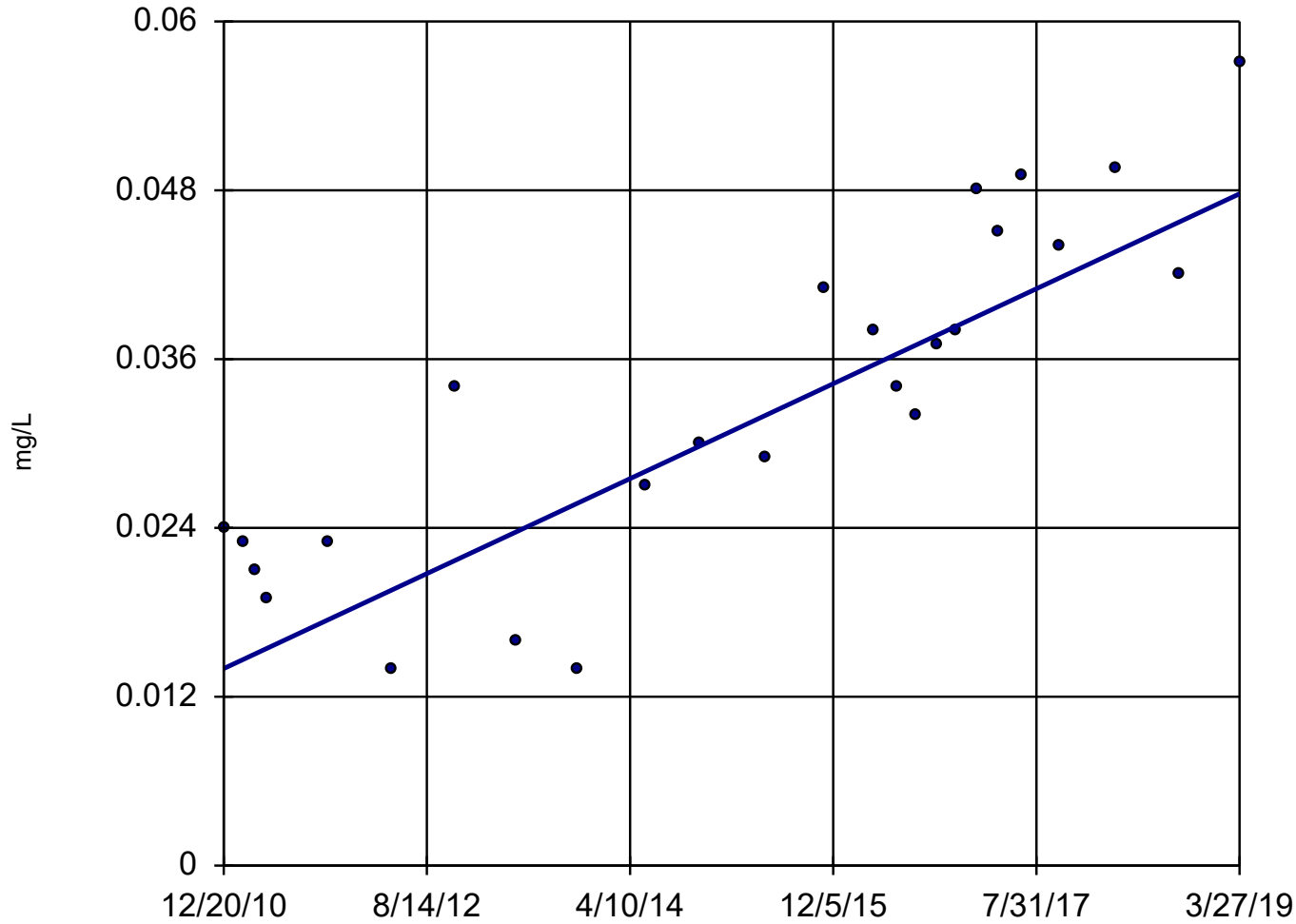
Constituent: Zinc, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR



### Sen's Slope Estimator

GWA-45 (bg)

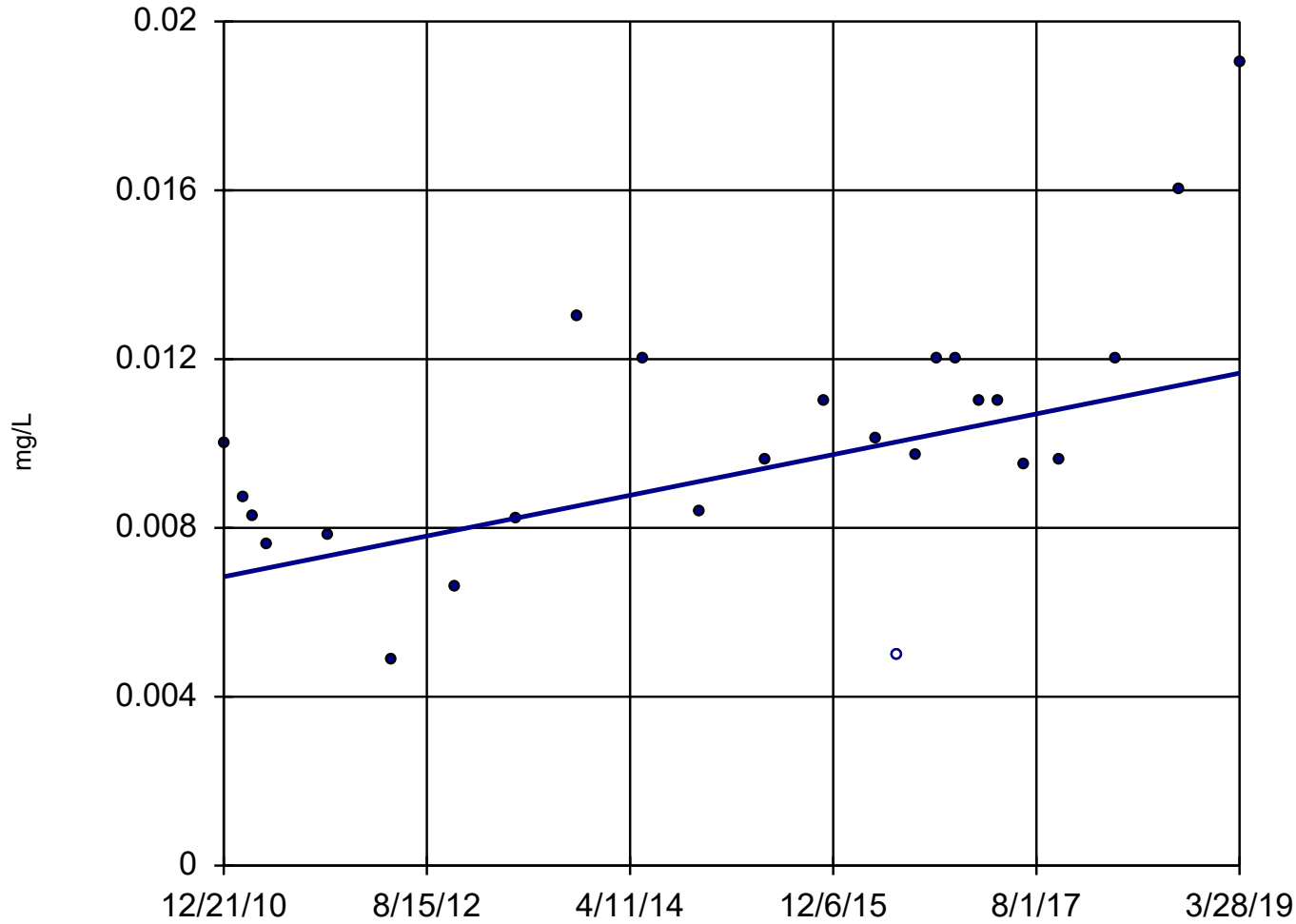


n = 25  
Slope = 0.004079 units per year.  
Mann-Kendall statistic = 199  
critical = 111  
Increasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Barium, Total Analysis Run 8/8/2019 12:48 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator GWC-52



n = 25

Slope = 0.0005834  
units per year.

Mann-Kendall  
statistic = 120  
critical = 111

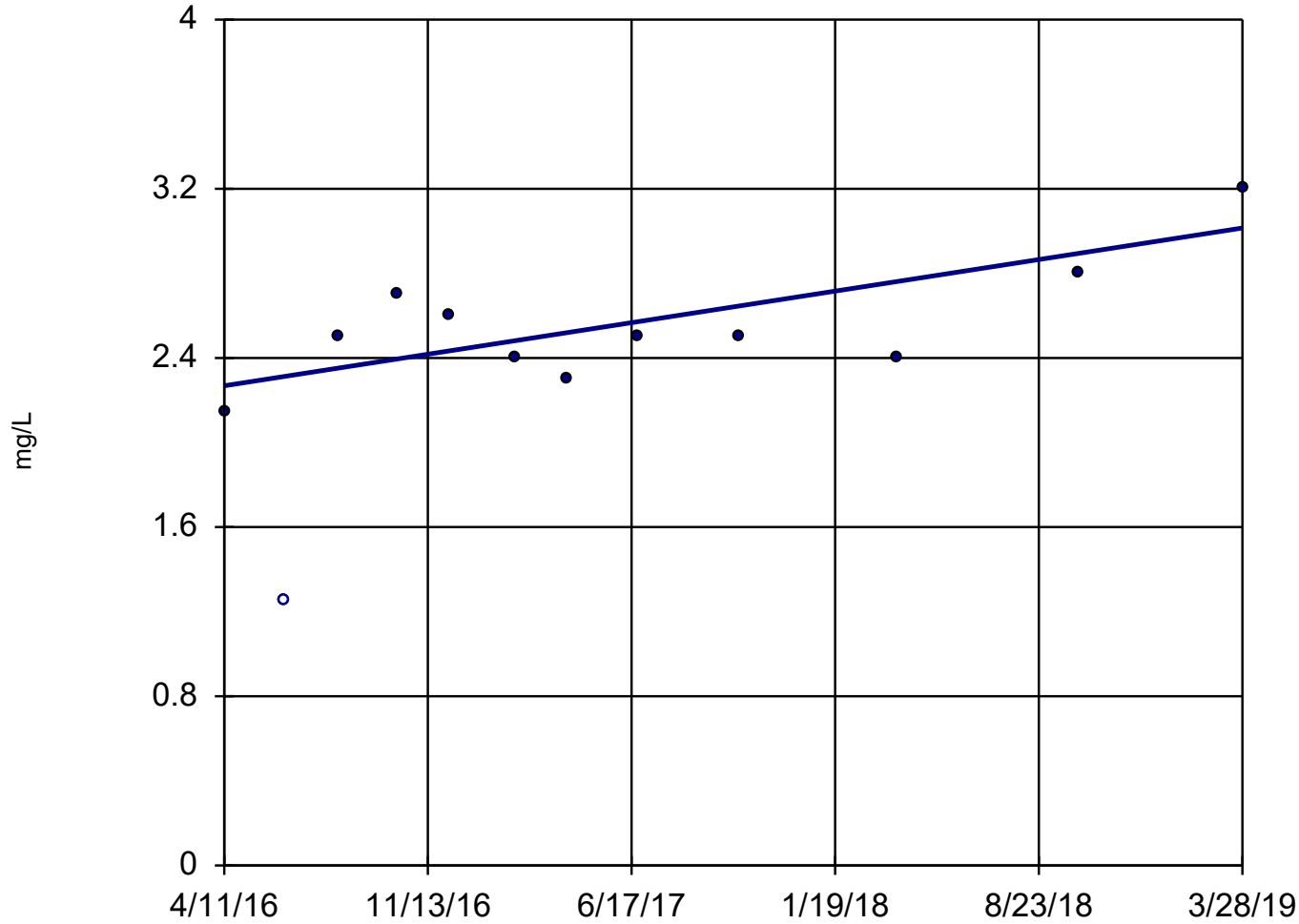
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:54 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator

GWC-29



n = 12

Slope = 0.252  
units per year.

Mann-Kendall  
statistic = 26  
critical = 38

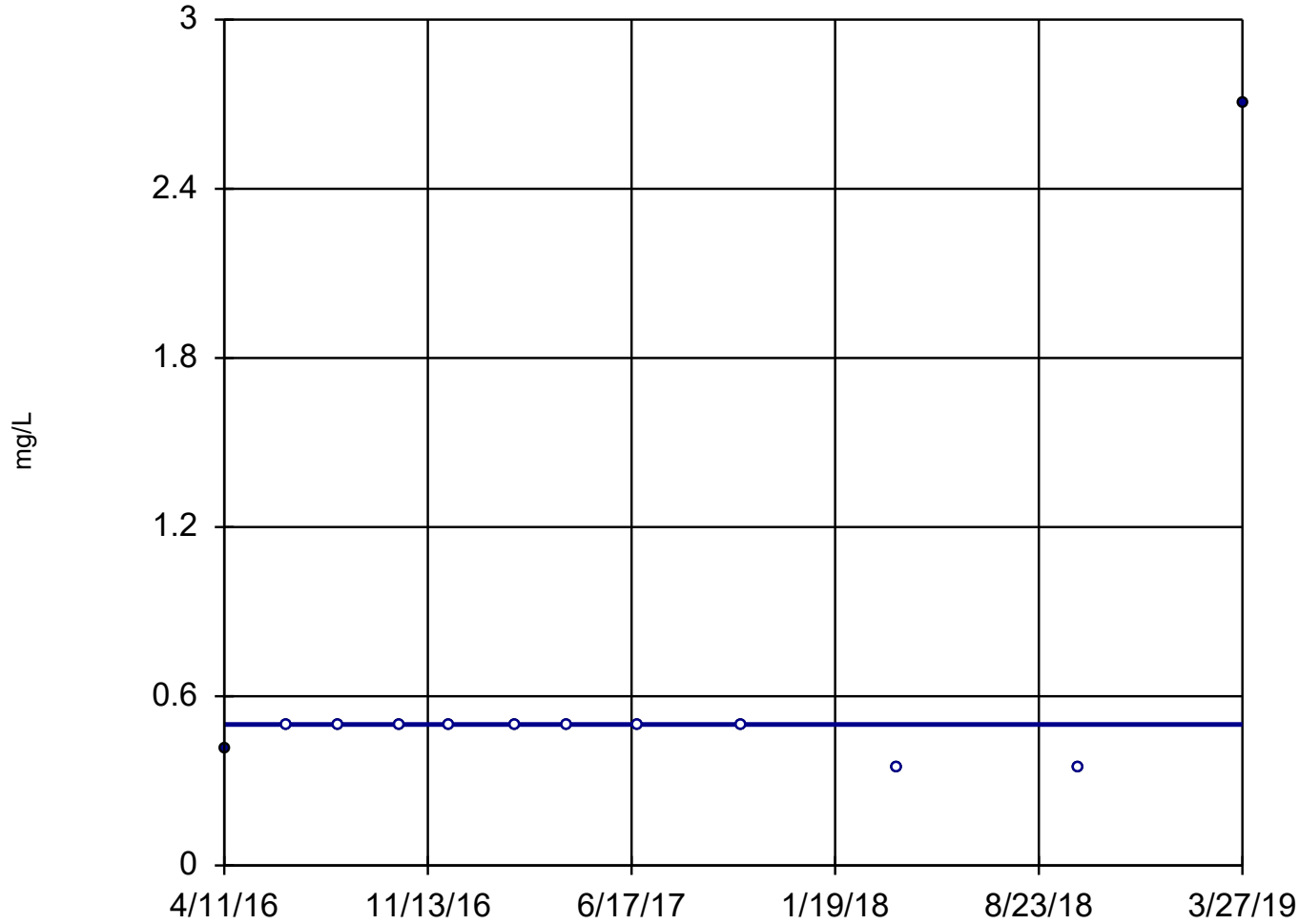
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator

GWC-51



n = 12

Slope = 0  
units per year.

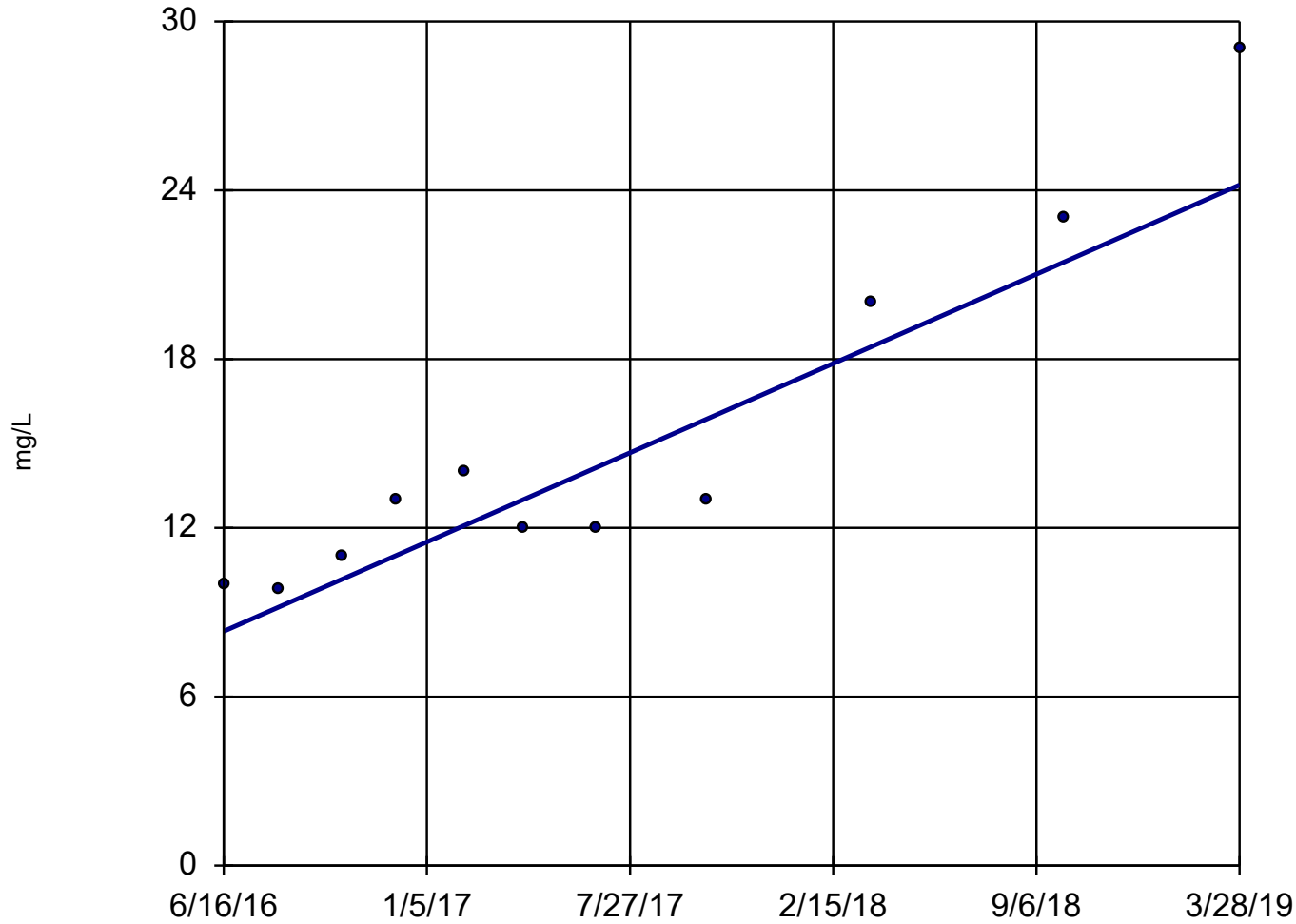
Mann-Kendall  
statistic = 1  
critical = 38

Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Sen's Slope Estimator GWC-52

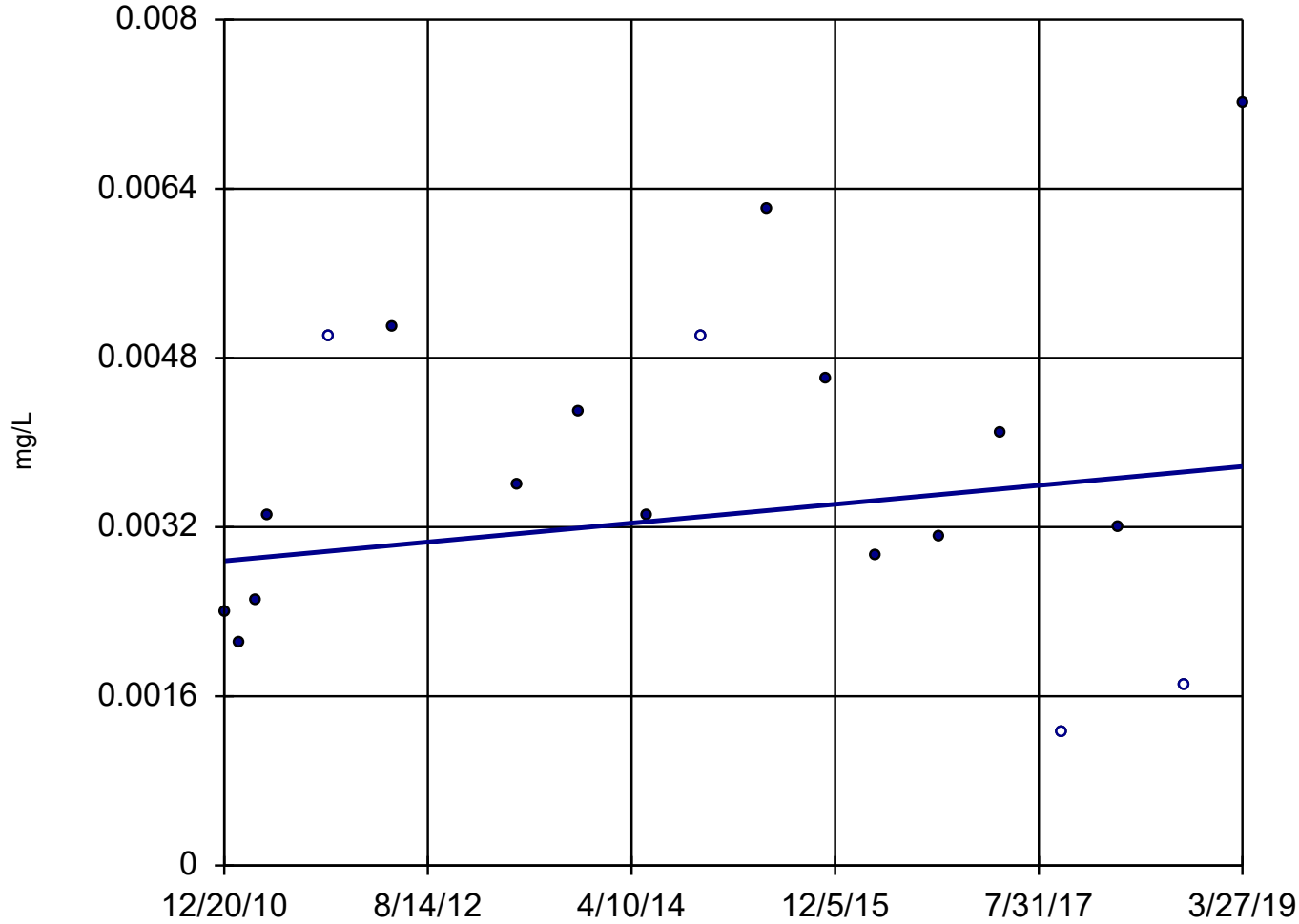


n = 11  
Slope = 5.703  
units per year.  
Mann-Kendall  
statistic = 41  
critical = 34  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend  
Scherer Client: Golder Associates Data: Scherer PAC CCR

### Sen's Slope Estimator

GWA-46 (bg)



n = 19

Slope = 0.0001079  
units per year.

Mann-Kendall  
statistic = 11  
critical = 74

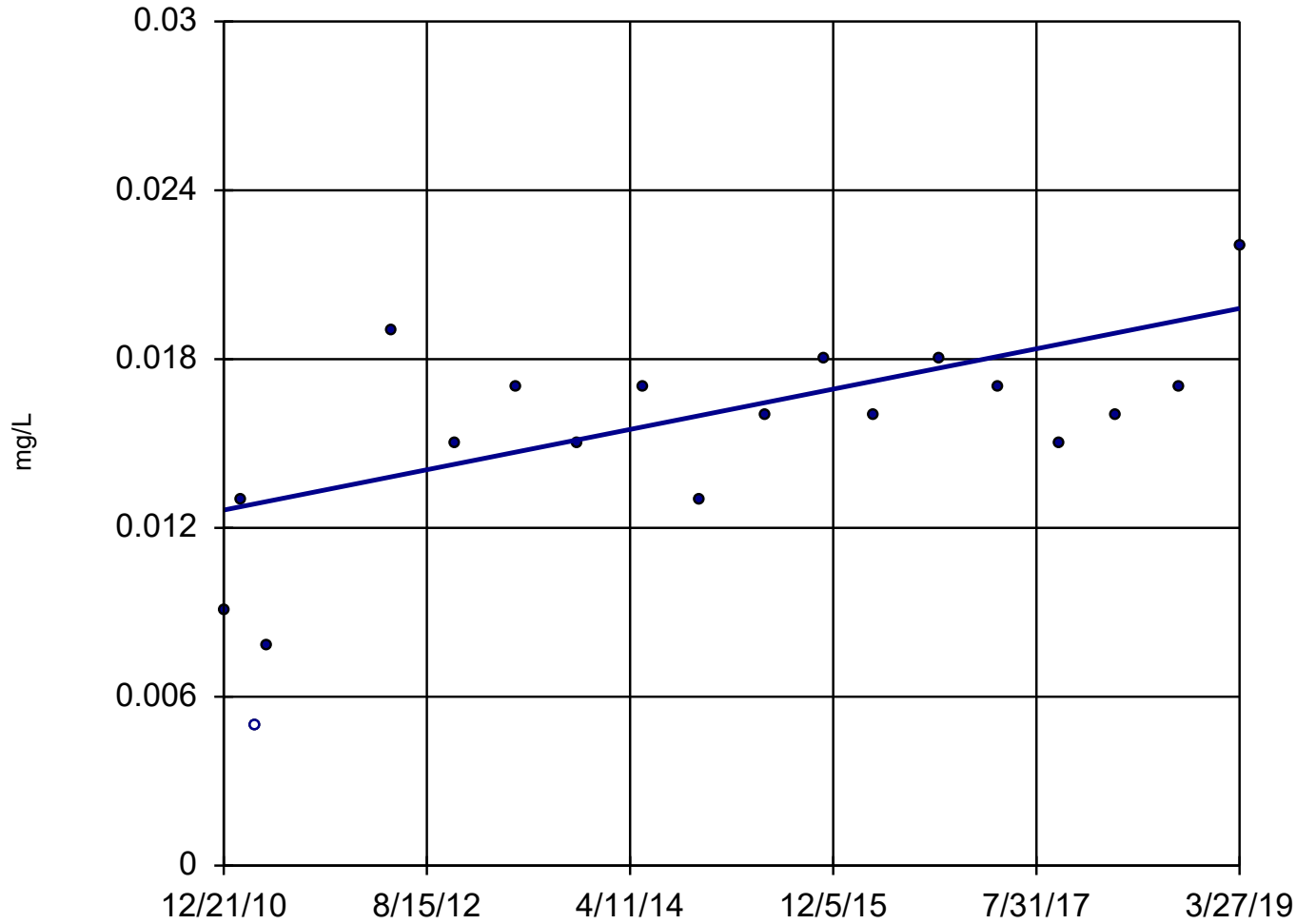
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator

GWA-48 (bg)



n = 19

Slope = 0.0008666  
units per year.

Mann-Kendall  
statistic = 71  
critical = 74

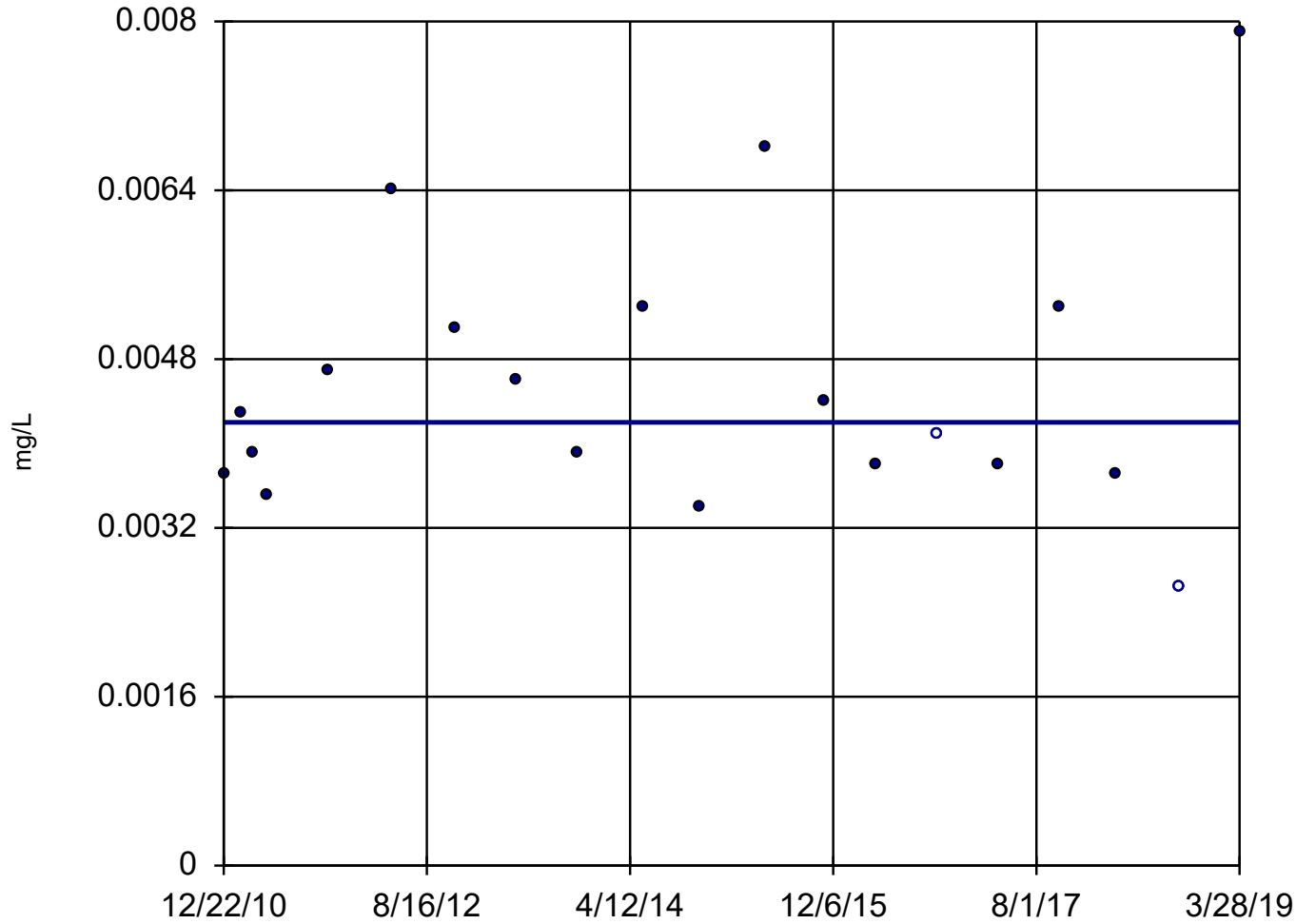
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator

GWC-29



n = 20

Slope = 0  
units per year.

Mann-Kendall  
statistic = -1  
critical = -81

Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

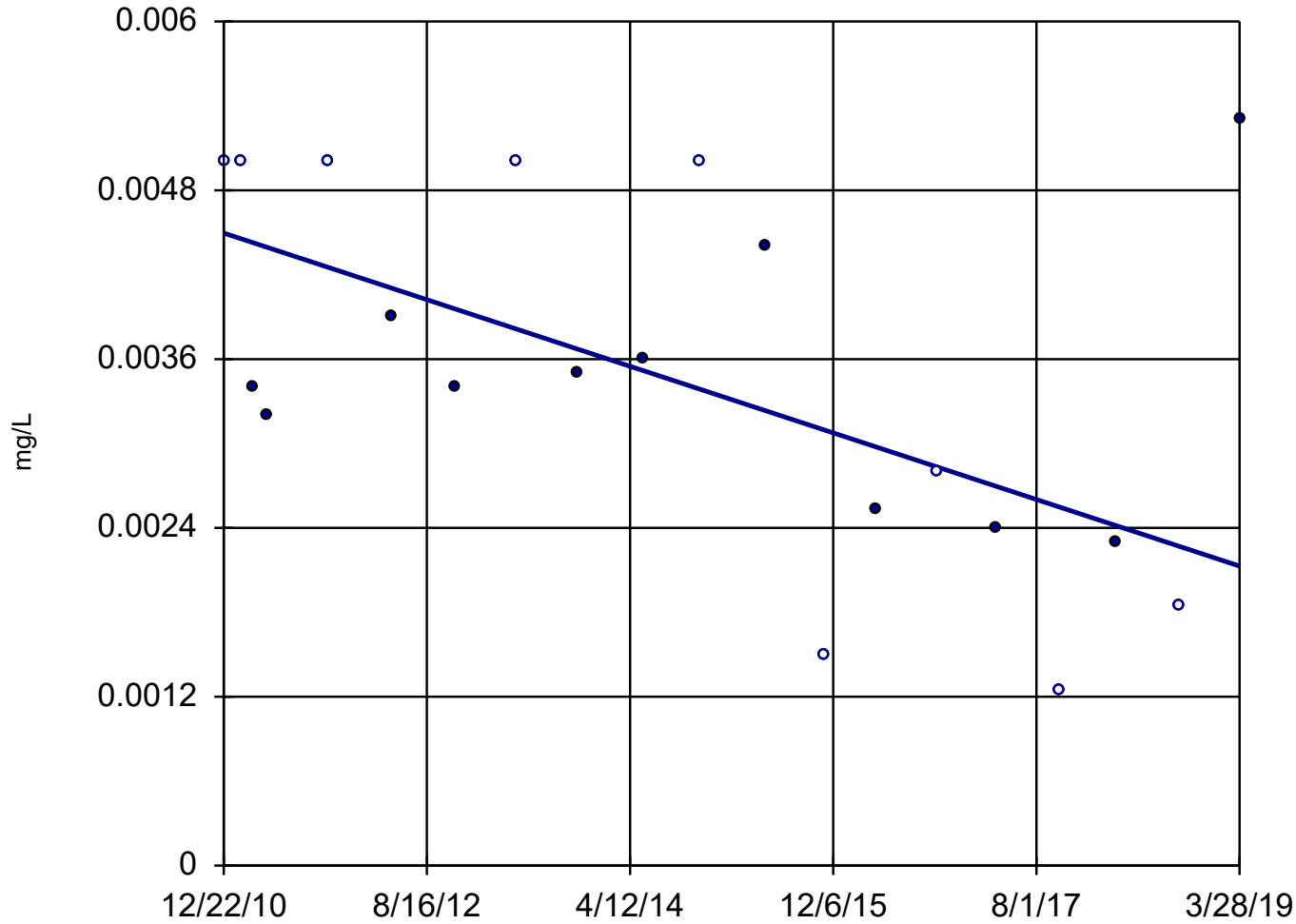
Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR



## Sen's Slope Estimator

GWC-50



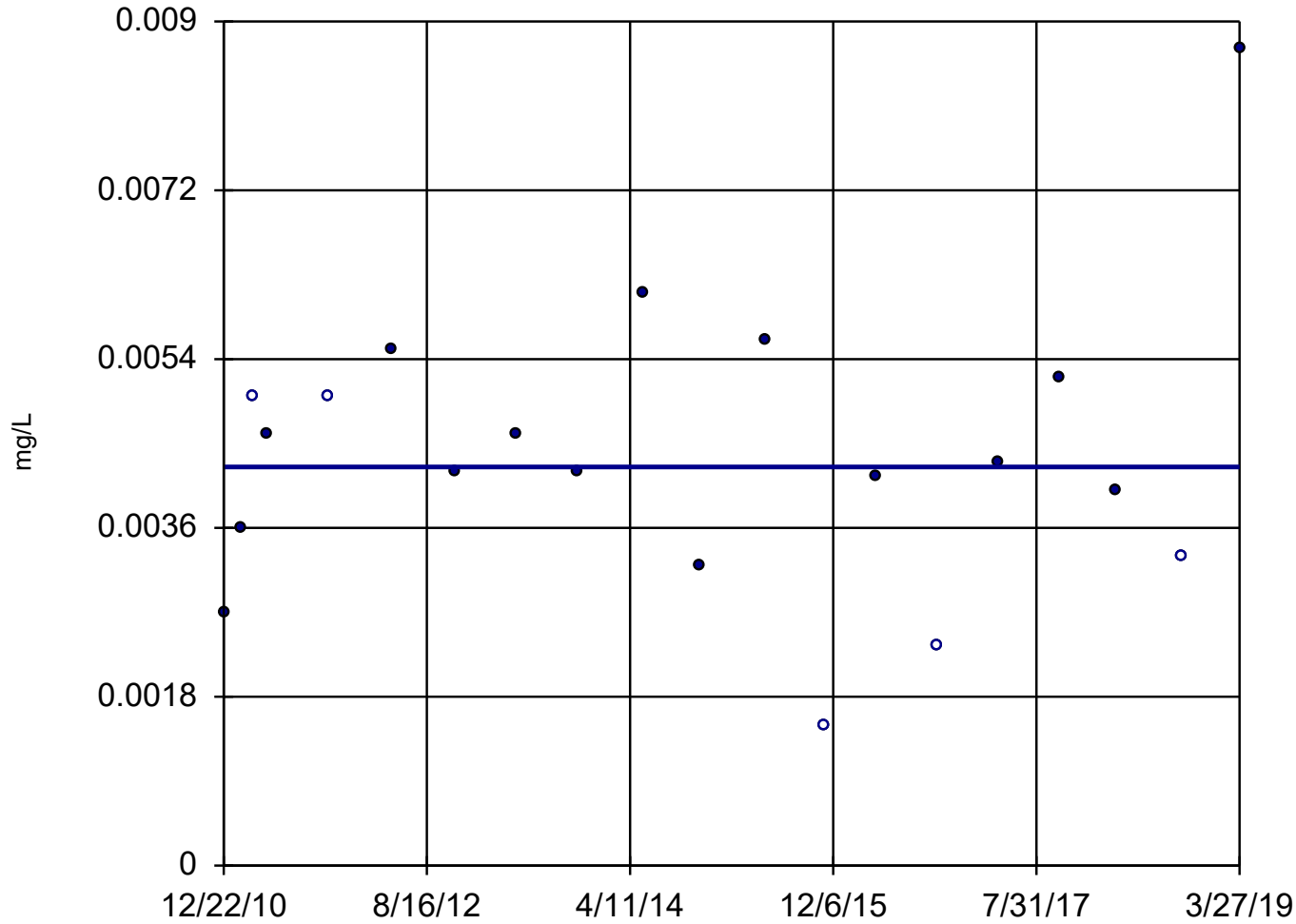
n = 20  
Slope = -0.0002862  
units per year.  
Mann-Kendall  
statistic = -69  
critical = -81  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

## Sen's Slope Estimator

GWC-51



n = 20

Slope = 0  
units per year.

Mann-Kendall  
statistic = 1  
critical = 81

Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

**APPENDIX C**

**2nd SEMI-ANNUAL 2019  
STATISTICAL ANALYSES REPORTS**

**STATISTICAL ANALYSES REPORTS**

**CELL 1**

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 8:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWC-19	13.6	n/a	9/12/2019	14	Yes	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-10	2.684	n/a	9/11/2019	2.9	Yes	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-7	1.883	n/a	9/11/2019	2.1	Yes	9	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-10	1.408	n/a	9/11/2019	1.8	Yes	11	27.27	Kapla...	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 8:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-15	0.05	n/a	9/10/2019	0.0195ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-16	0.021	n/a	9/10/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-17	0.05	n/a	9/10/2019	0.0195ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-1	0.021	n/a	9/10/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-10	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-11	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-12	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-13	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-14	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-18	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-19	0.021	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-20	0.021	n/a	9/10/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-2	0.021	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-3	0.021	n/a	9/10/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-4	0.021	n/a	9/10/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-5	0.6138	n/a	9/11/2019	0.31	No	10	0	None	No	0.000...	Param Intra 1 of 2
Boron (mg/L)	GWC-6	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-7	0.021	n/a	9/11/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-8A	0.3698	n/a	9/11/2019	0.21	No	10	0	None	No	0.000...	Param Intra 1 of 2
Boron (mg/L)	GWC-9	0.136	n/a	9/11/2019	0.083	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-15	5.715	n/a	9/10/2019	4.8	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-16	15.17	n/a	9/10/2019	12	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-17	8.816	n/a	9/10/2019	7.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-1	21.22	n/a	9/10/2019	17	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-10	20.38	n/a	9/11/2019	18	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-11	15.38	n/a	9/11/2019	13	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-12	1.461	n/a	9/11/2019	0.94	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-13	7.811	n/a	9/11/2019	7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-14	7.734	n/a	9/11/2019	7.3	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-18	12.43	n/a	9/11/2019	10	No	11	0	None	No	0.000...	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWC-19</b>	<b>13.6</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>14</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWC-2	21.47	n/a	9/10/2019	18	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-20	16.51	n/a	9/12/2019	14	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-3	11.03	n/a	9/10/2019	6.6	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-4	17.38	n/a	9/10/2019	12	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-5	221.6	n/a	9/11/2019	46	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-6	21.43	n/a	9/11/2019	19	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-7	16.62	n/a	9/11/2019	14	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-8A	45.47	n/a	9/11/2019	37	No	10	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-9	20.4	n/a	9/11/2019	17	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-15	6.429	n/a	9/10/2019	5.2	No	11	0	None	ln(x)	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-16	2.185	n/a	9/10/2019	1.4	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-17	2.013	n/a	9/10/2019	1.3	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-1	4.646	n/a	9/10/2019	2.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-10</b>	<b>2.684</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>2.9</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GWC-11	2.095	n/a	9/11/2019	1.8	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-12	2.068	n/a	9/11/2019	1.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-13	2.066	n/a	9/11/2019	1.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-14	3.353	n/a	9/11/2019	3.1	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-18	2.729	n/a	9/11/2019	2.6	No	11	0	None	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 8:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GWC-19	2.038	n/a	9/12/2019	1.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-2	2.621	n/a	9/10/2019	1.7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-20	2.333	n/a	9/12/2019	1.6	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-3	3.838	n/a	9/10/2019	2.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-4	17.66	n/a	9/10/2019	5.1	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-5	139	n/a	9/11/2019	19	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-6	8.922	n/a	9/11/2019	7.2	No	10	0	None	No	0.000...	Param Intra 1 of 2
<b>Chloride (mg/L)</b>	<b>GWC-7</b>	<b>1.883</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>2.1</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GWC-8A	8.684	n/a	9/11/2019	7	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-9	4.55	n/a	9/11/2019	3.4	No	11	0	None	No	0.000...	Param Intra 1 of 2
Fluoride (mg/L)	GWA-15	0.15	n/a	9/10/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-16	0.15	n/a	9/10/2019	0.047	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-17	0.15	n/a	9/10/2019	0.046	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-1	0.1	n/a	9/10/2019	0.077	No	11	45.45	n/a	n/a	0.01276	NP Intra (normality) ...
Fluoride (mg/L)	GWC-10	0.1	n/a	9/11/2019	0.067	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-11	0.1	n/a	9/11/2019	0.054	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-12	0.15	n/a	9/11/2019	0.039	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-13	0.15	n/a	9/11/2019	0.051	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-14	0.15	n/a	9/11/2019	0.045	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-18	0.15	n/a	9/11/2019	0.055	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-19	0.15	n/a	9/12/2019	0.032	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.15	n/a	9/10/2019	0.048	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-20	0.15	n/a	9/12/2019	0.044	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3	0.1	n/a	9/10/2019	0.058	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-4	0.1735	n/a	9/10/2019	0.097	No	11	0	None	No	0.000...	Param Intra 1 of 2
Fluoride (mg/L)	GWC-5	0.15	n/a	9/11/2019	0.045	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6	0.15	n/a	9/11/2019	0.058	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-7	0.12	n/a	9/11/2019	0.057	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-8A	0.2372	n/a	9/11/2019	0.071	No	10	0	None	No	0.000...	Param Intra 1 of 2
Fluoride (mg/L)	GWC-9	0.1	n/a	9/11/2019	0.067	No	11	72.73	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-15	5.747	5.249	3/26/2019	5.41	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-16	6.583	6.182	3/26/2019	6.42	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-17	6.36	5.573	3/26/2019	6.12	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-1	6.772	6.262	3/26/2019	6.54	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-10	6.663	5.991	3/27/2019	6.53	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-11	6.38	5.957	3/27/2019	6.22	No	14	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-12	5.46	4.819	3/26/2019	5.25	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-13	6.02	5.6	3/26/2019	5.89	No	16	0	n/a	n/a	0.01291	NP Intra (normality) ...
pH (S.U.)	GWC-14	5.865	5.331	3/26/2019	5.63	No	14	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-18	6.472	6.144	3/26/2019	6.38	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-19	6.51	6.35	3/26/2019	6.35	No	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-2	7	6.35	3/26/2019	6.44	No	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-20	6.689	6.321	3/26/2019	6.52	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-3	6.117	5.731	3/26/2019	6.02	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-4	6.607	5.933	3/26/2019	6.34	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-5	6.124	5.327	3/27/2019	5.78	No	15	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-6	6.343	6.036	3/26/2019	6.25	No	15	0	None	ln(x)	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-7	6.42	5.96	3/27/2019	6.38	No	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-8A	7.523	5.769	3/27/2019	6.69	No	18	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-9	6.916	6.262	3/27/2019	6.7	No	15	0	None	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 8:33 PM

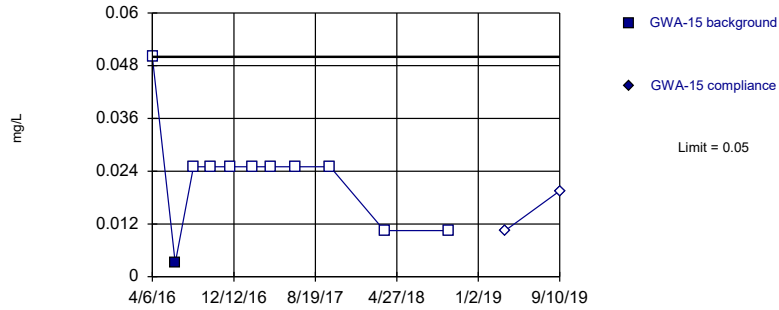
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GWA-15	1.2	n/a	9/10/2019	0.65	No	11	72.73	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-16	0.7	n/a	9/10/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-17	0.7	n/a	9/10/2019	0.44	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-1	1	n/a	9/10/2019	0.69	No	11	54.55	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GWC-10</b>	<b>1.408</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>1.8</b>	<b>Yes</b>	<b>11</b>	<b>27.27</b>	<b>Kapla...</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GWC-11	0.5	n/a	9/11/2019	0.63	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-12	0.5	n/a	9/11/2019	0.5	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-13	0.646	n/a	9/11/2019	0.81	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-14	0.5	n/a	9/11/2019	0.5	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-18	0.7	n/a	9/11/2019	0.61	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-19	0.7	n/a	9/12/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-20	0.56	n/a	9/10/2019	0.63	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-2	0.7	n/a	9/12/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-3	1.1	n/a	9/10/2019	0.7	No	11	72.73	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-4	6.762	n/a	9/10/2019	1.7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-5	652.6	n/a	9/11/2019	130	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-6	18.05	n/a	9/11/2019	12	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-7	0.5	n/a	9/11/2019	0.52	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-8A	47.6	n/a	9/11/2019	32	No	10	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-9	18.57	n/a	9/11/2019	9.6	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-15	77.6	n/a	9/10/2019	42	No	11	9.091	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-16	168.3	n/a	9/10/2019	75	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-17	150.4	n/a	9/10/2019	51	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-1	169.9	n/a	9/10/2019	130	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-10	180.9	n/a	9/11/2019	110	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-11	326.5	n/a	9/11/2019	94	No	11	0	None	ln(x)	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-12	233.4	n/a	9/11/2019	14	No	11	36.36	Kapla...	ln(x)	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-13	122.5	n/a	9/11/2019	33	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-14	113.8	n/a	9/11/2019	26	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-18	129.5	n/a	9/11/2019	77	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-19	175.6	n/a	9/12/2019	70	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	204.2	n/a	9/10/2019	140	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-20	152.7	n/a	9/12/2019	84	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-3	117	n/a	9/10/2019	66	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-4	169.8	n/a	9/10/2019	93	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-5	1520	n/a	9/11/2019	310	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-6	190.4	n/a	9/11/2019	120	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-7	164.3	n/a	9/11/2019	100	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-8A	243.6	n/a	9/11/2019	210	No	9	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-9	261.2	n/a	9/11/2019	130	No	11	0	None	No	0.000...	Param Intra 1 of 2



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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



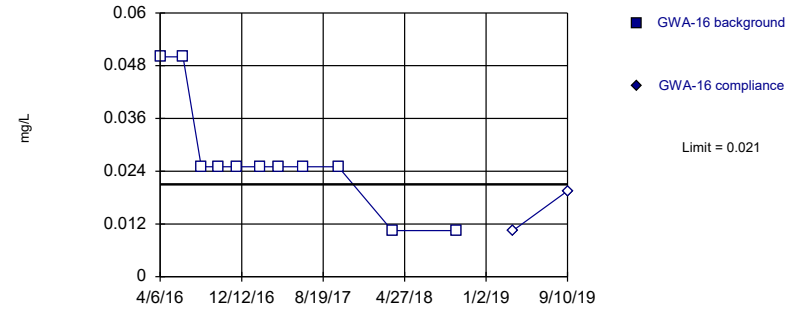
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



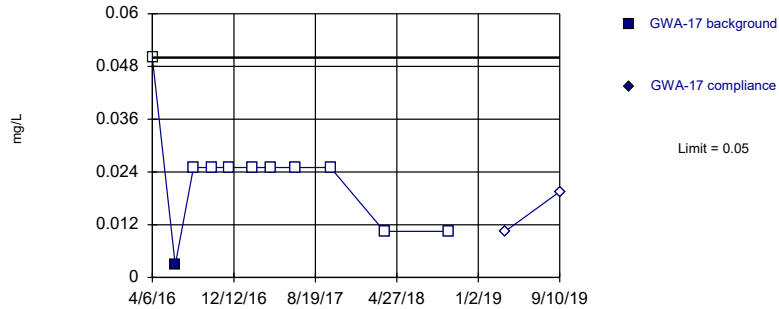
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



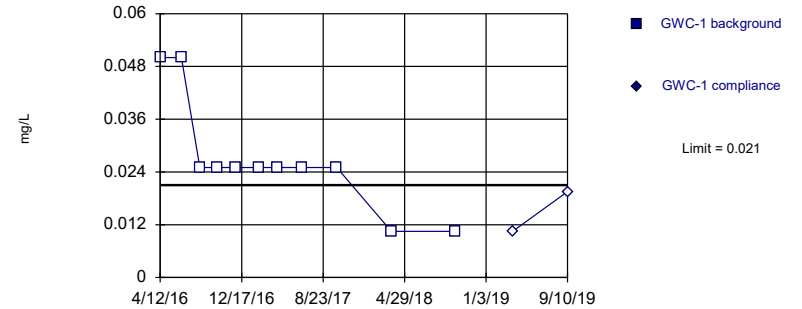
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Within Limit

Prediction Limit  
Intrawell Non-parametric

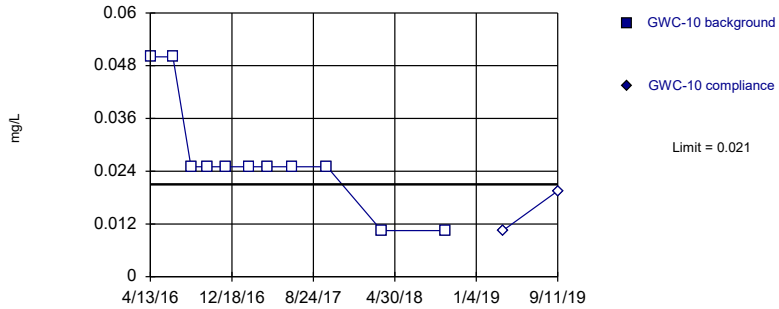


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

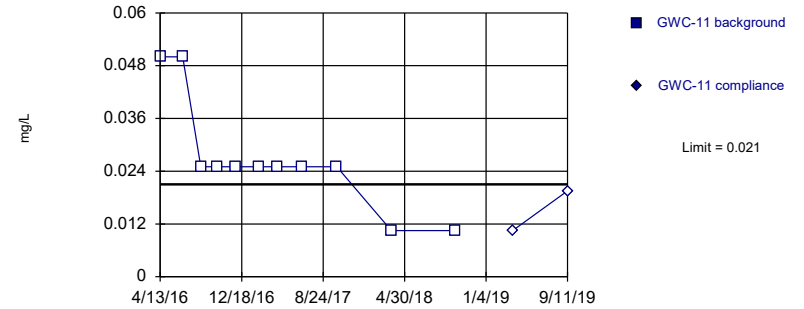


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
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Within Limit Prediction Limit  
Intrawell Non-parametric

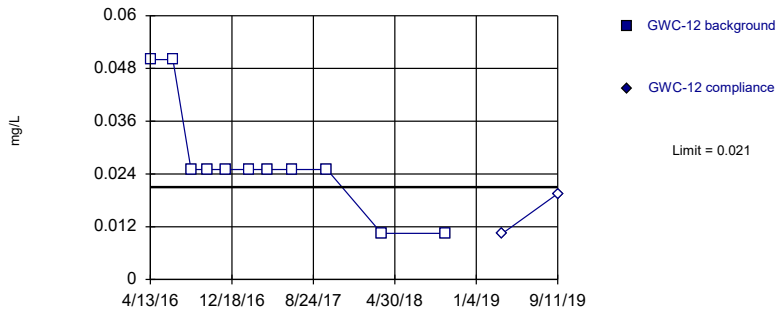


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
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Within Limit Prediction Limit  
Intrawell Non-parametric

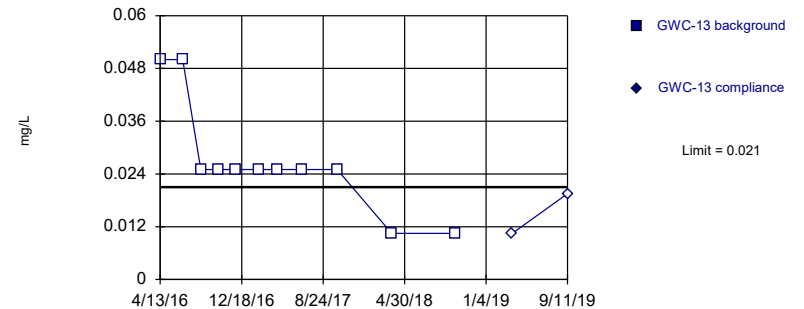


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Within Limit Prediction Limit  
Intrawell Non-parametric



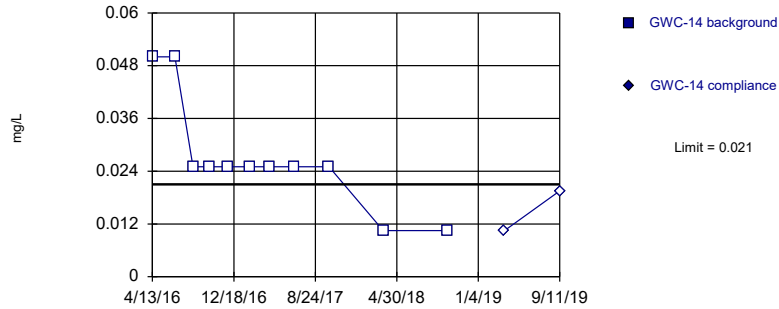
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



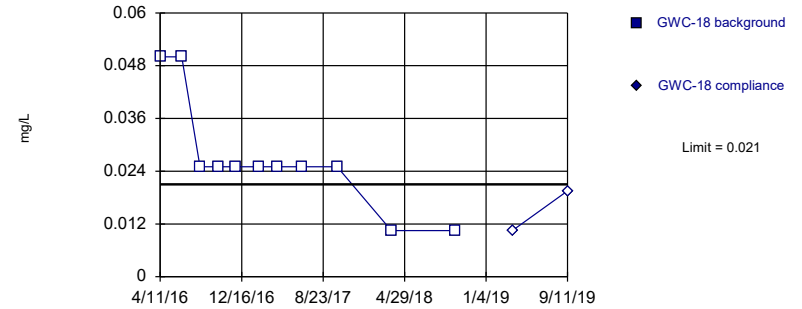
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Within Limit

### Prediction Limit Intrawell Non-parametric



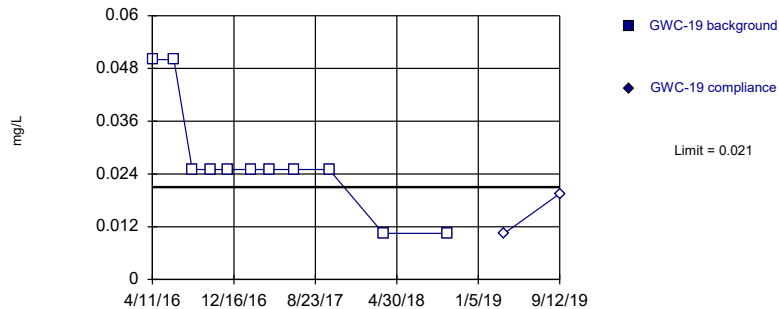
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Within Limit

### Prediction Limit Intrawell Non-parametric



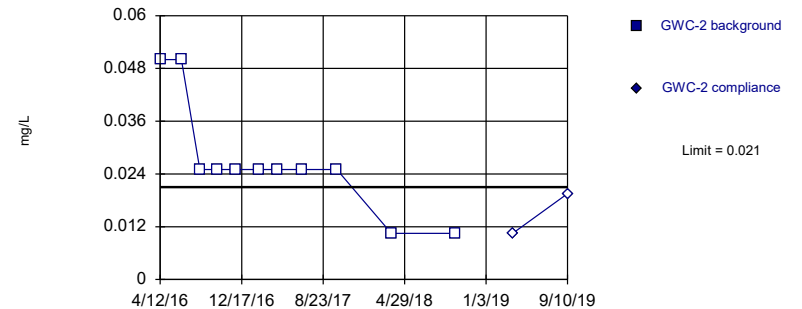
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Within Limit

### Prediction Limit Intrawell Non-parametric



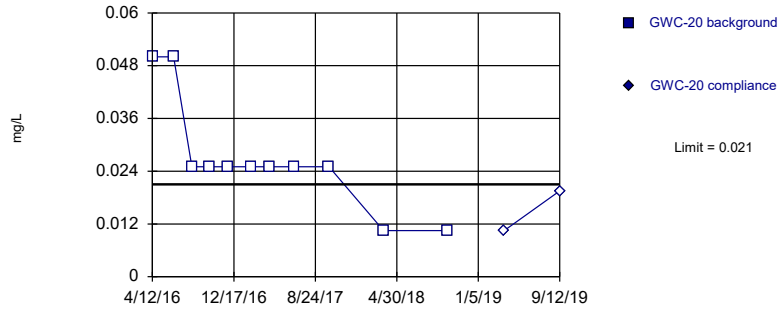
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



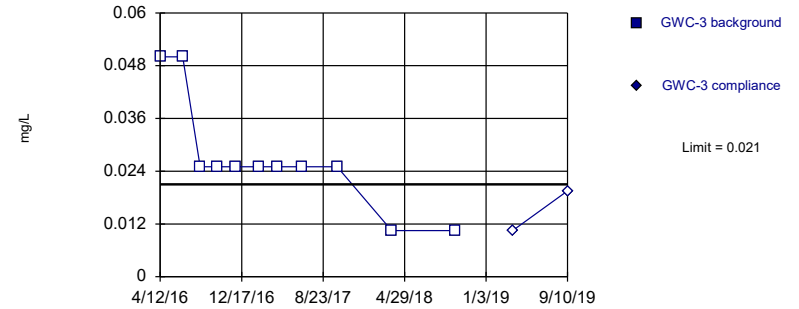
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



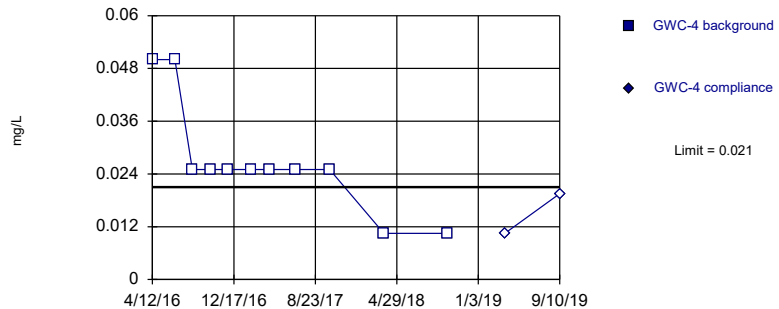
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



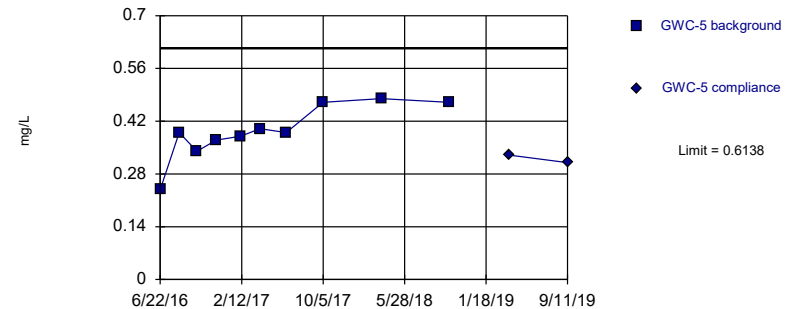
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG

Within Limit

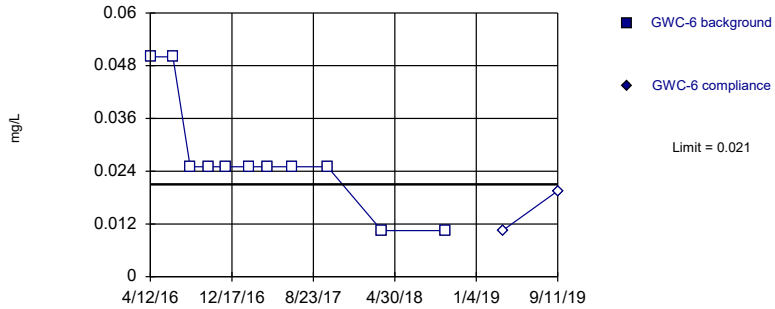
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.3928, Std. Dev.=0.07228, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8982, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

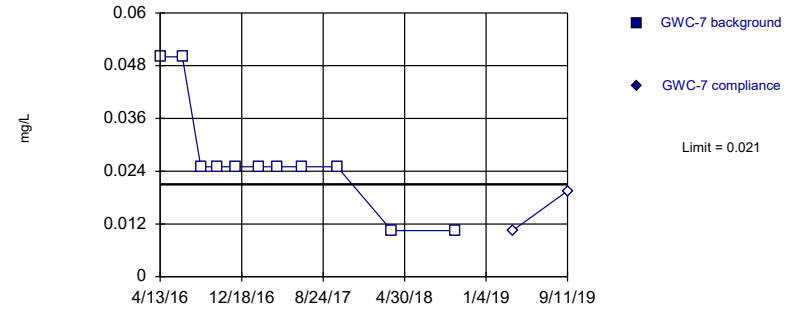
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:28 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

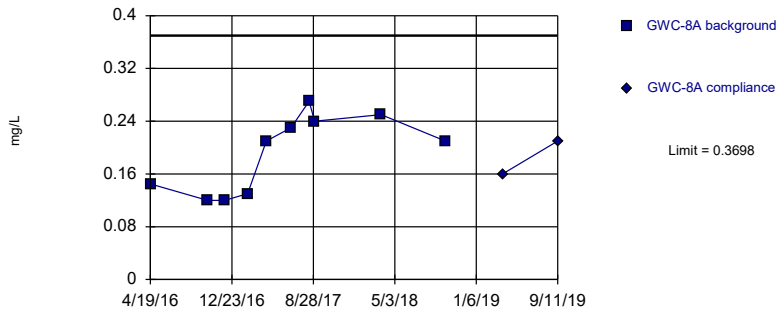
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

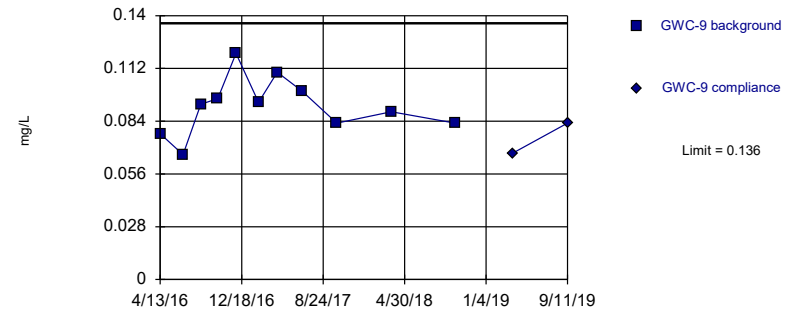
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1925, Std. Dev.=0.05799, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.876, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Boron Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

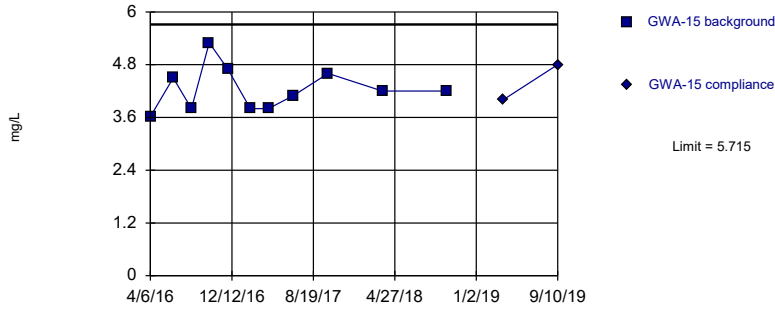
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.09197, Std. Dev.=0.01496, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9843, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Boron Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

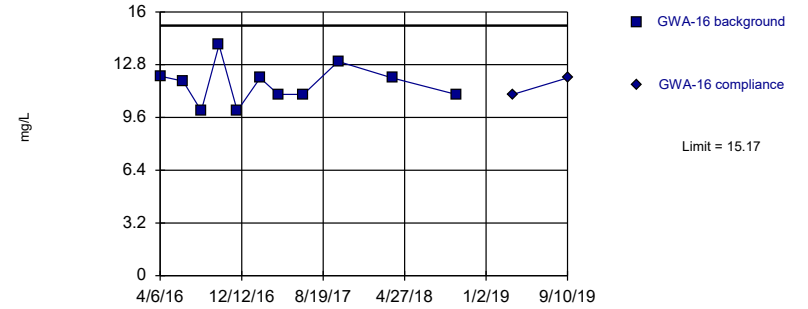
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=4.238, Std. Dev.=0.502, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9253, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

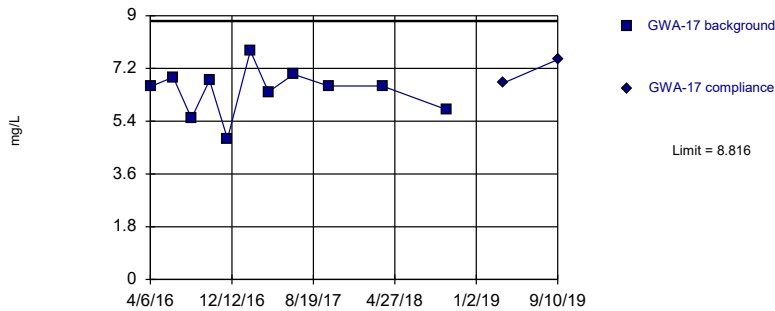
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=11.63, Std. Dev.=1.205, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

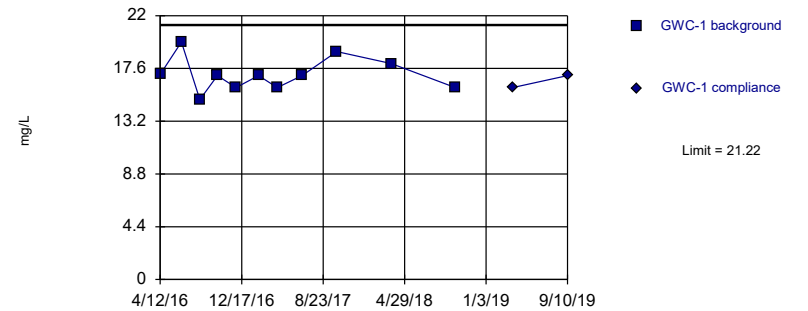
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.435, Std. Dev.=0.8099, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9412, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

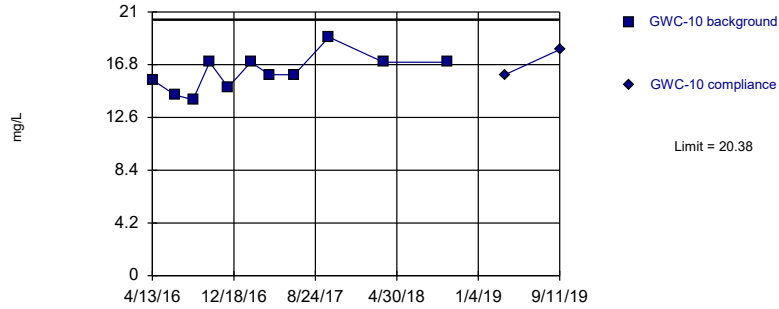
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=17.08, Std. Dev.=1.406, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9316, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

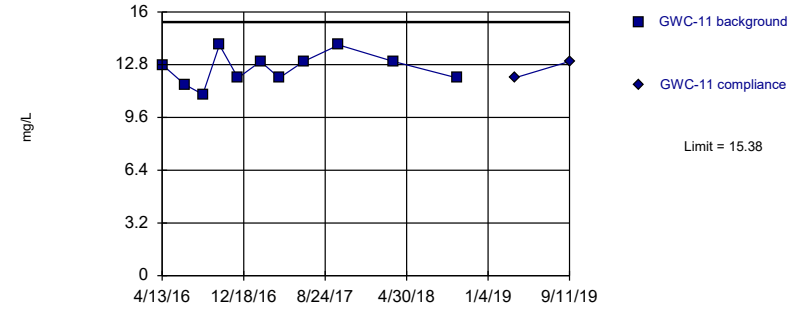
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=16.18, Std. Dev.=1.427, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9441, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

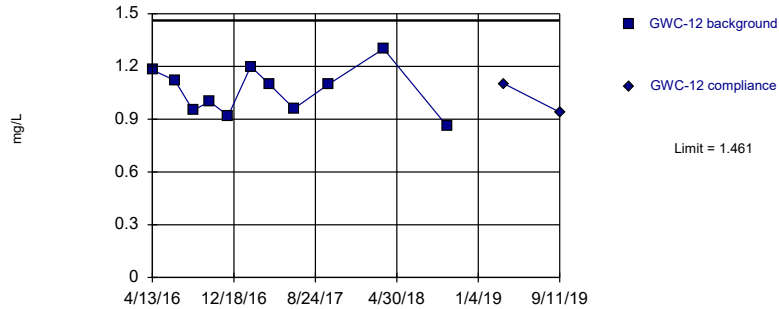
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=12.58, Std. Dev.=0.9527, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9357, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

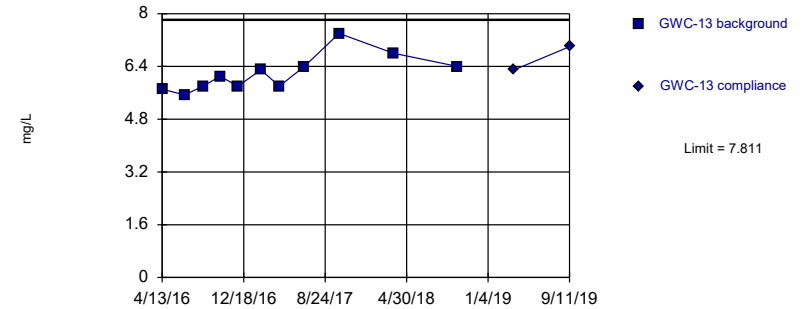
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.063, Std. Dev.=0.1355, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9655, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

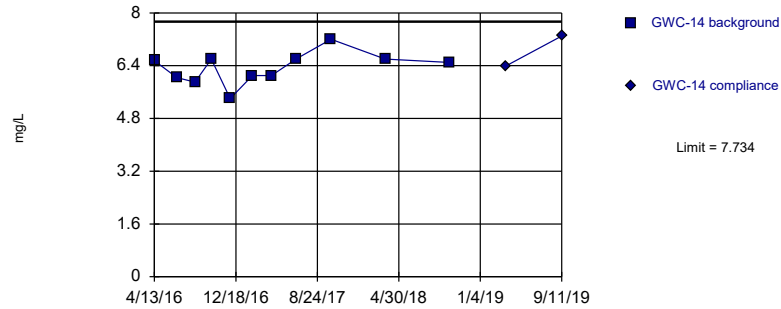
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.186, Std. Dev.=0.5526, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9015, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

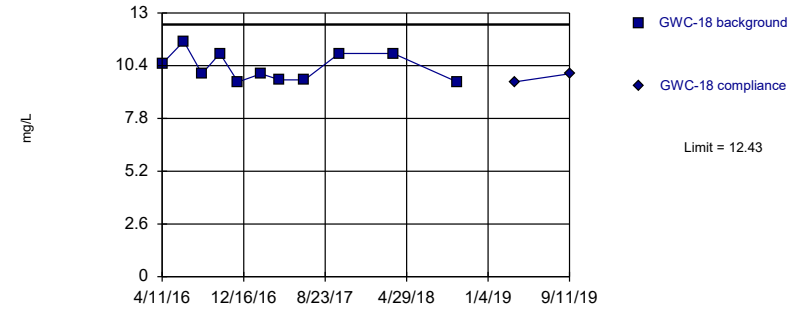
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.326, Std. Dev.=0.4788, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.942, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

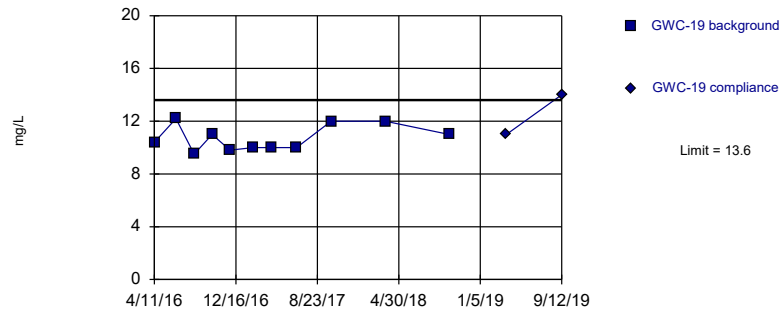
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.34, Std. Dev.=0.7117, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8695, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

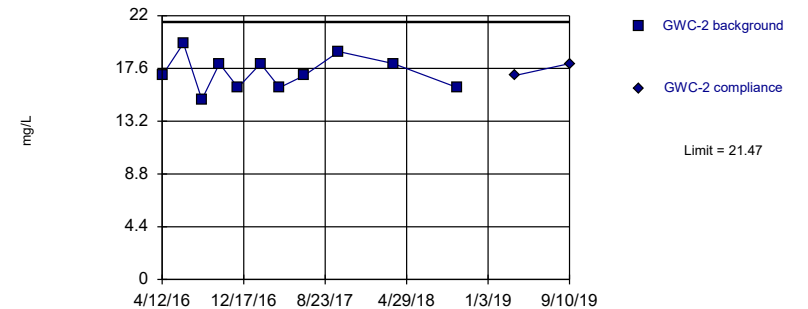
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.72, Std. Dev.=0.9806, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8782, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

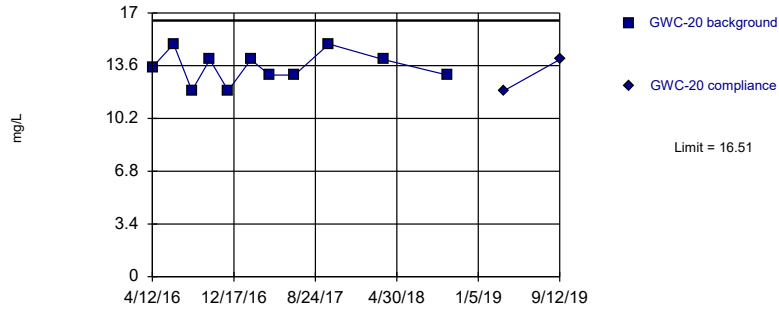


Background Data Summary: Mean=17.25, Std. Dev.=1.436, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



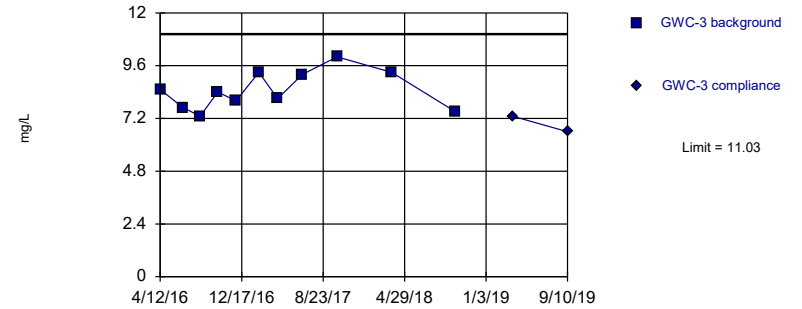
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=13.5, Std. Dev.=1.025, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.923, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

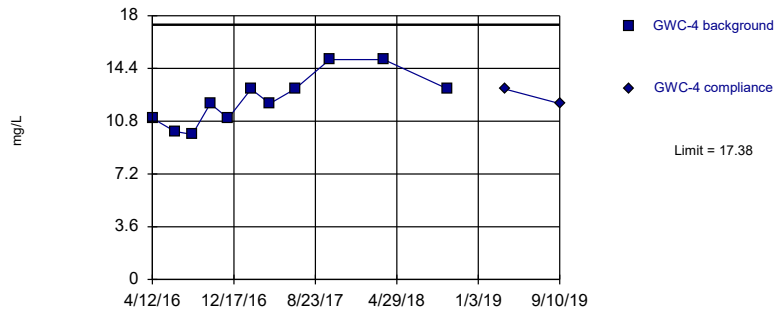
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=8.484, Std. Dev.=0.867, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9492, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

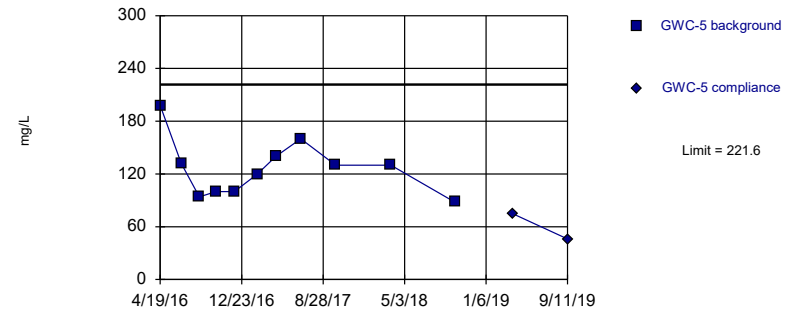
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=12.27, Std. Dev.=1.738, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9259, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

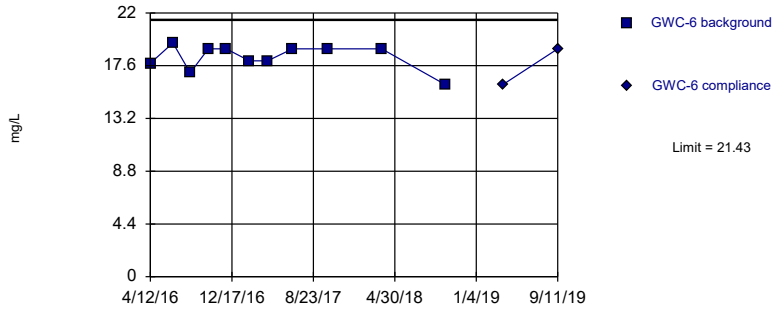
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=126.5, Std. Dev.=32.34, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9147, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

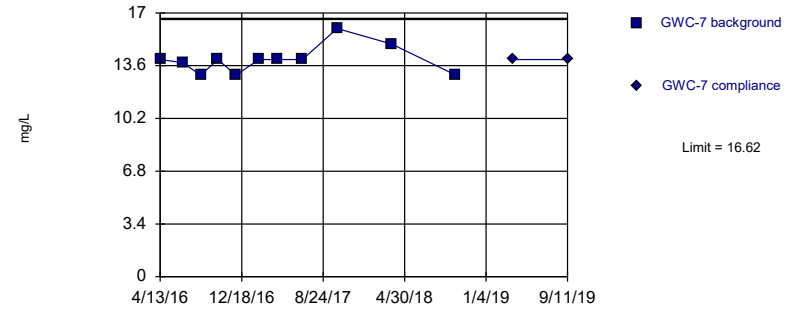
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=18.3, Std. Dev.=1.063, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8543, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

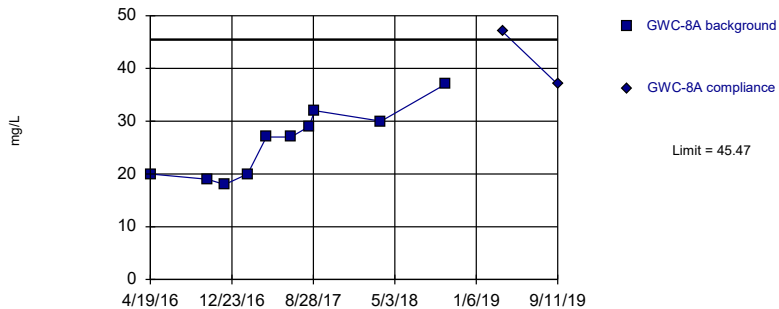
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=13.98, Std. Dev.=0.8965, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8398, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

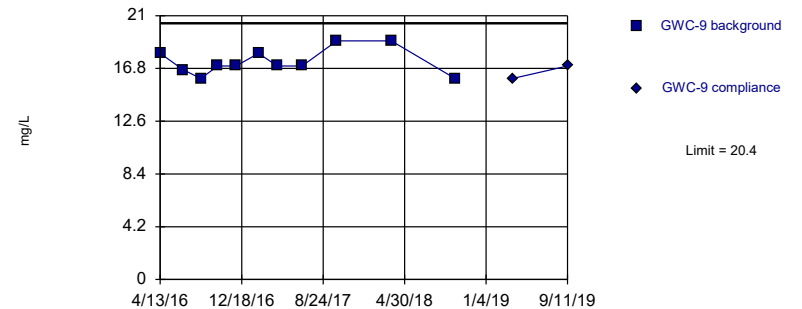
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=25.9, Std. Dev.=6.402, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9203, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

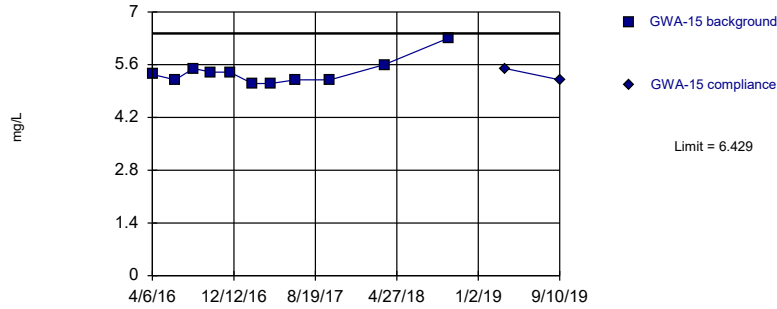
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=17.34, Std. Dev.=1.041, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8927, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Calcium Analysis Run 1/27/2020 8:29 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

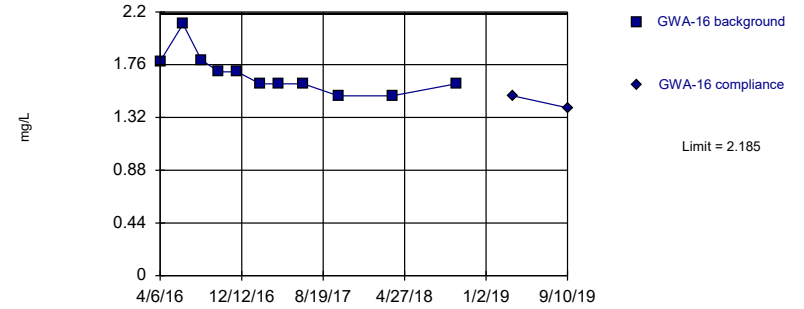
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.684, Std. Dev.=0.06022, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7973, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

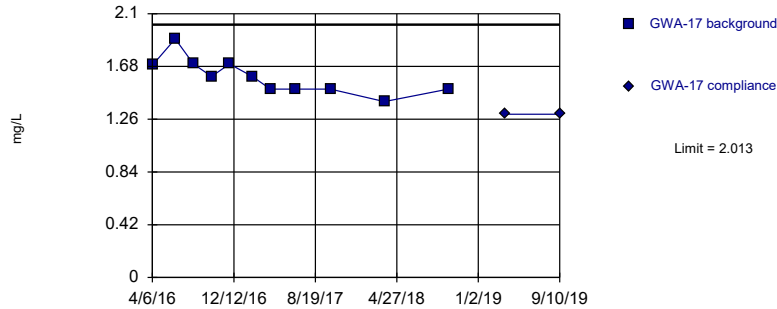
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.681, Std. Dev.=0.1714, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8489, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

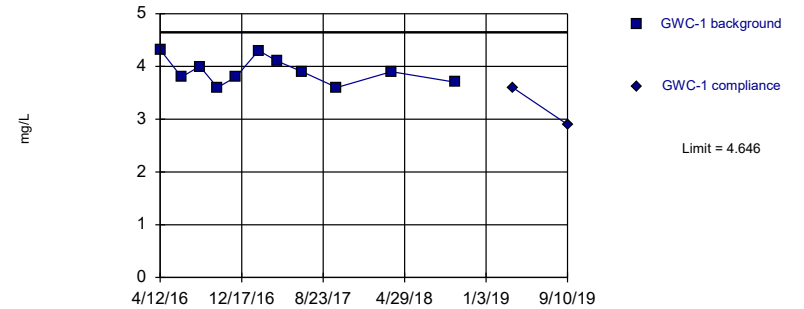
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.599, Std. Dev.=0.1407, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9146, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

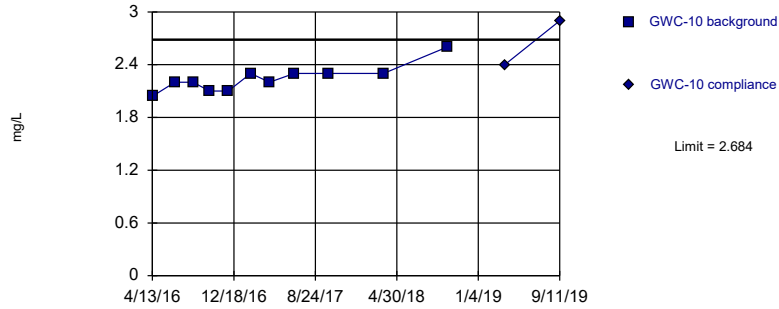


Background Data Summary: Mean=3.911, Std. Dev.=0.25, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9271, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

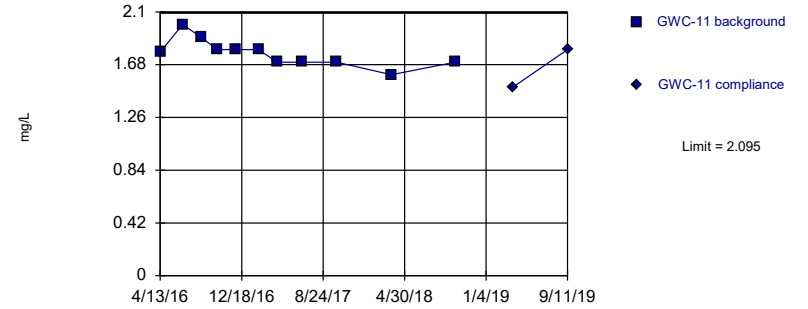


Background Data Summary: Mean=2.24, Std. Dev.=0.151, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.874, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

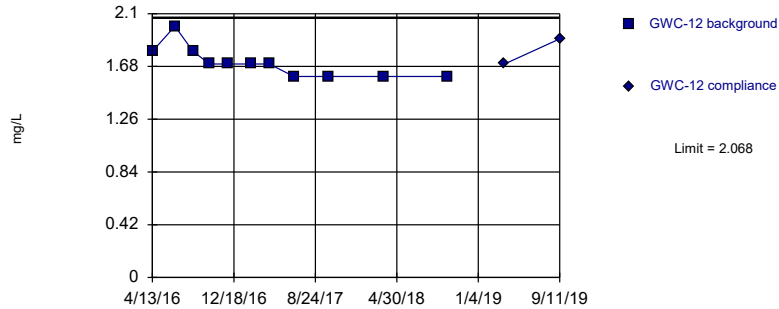


Background Data Summary: Mean=1.771, Std. Dev.=0.11, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9223, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

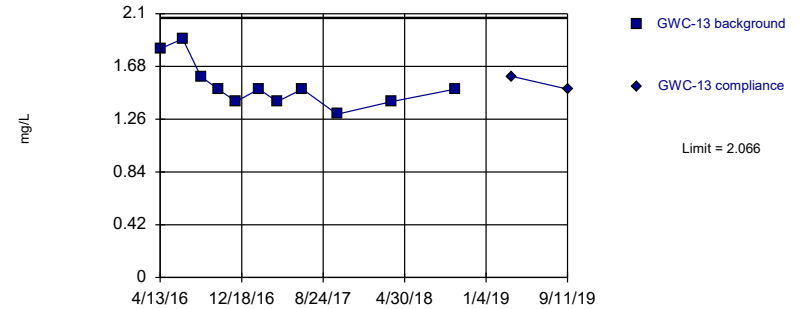


Background Data Summary: Mean=1.709, Std. Dev.=0.1221, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8208, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

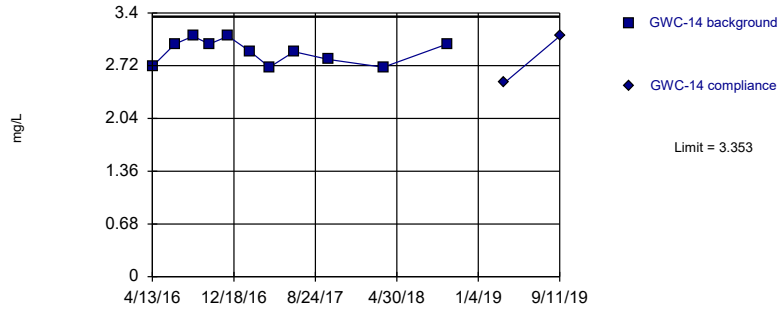
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.529, Std. Dev.=0.1825, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8586, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

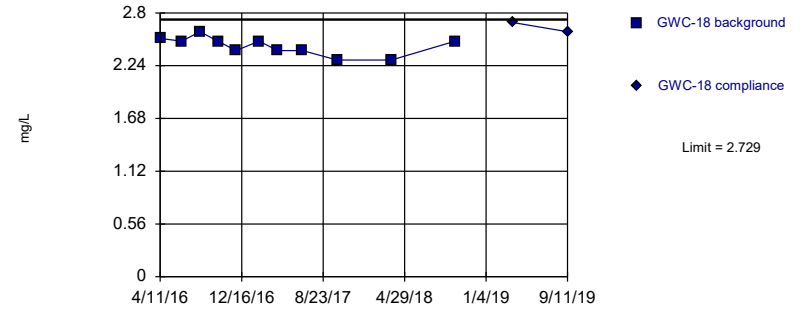
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.901, Std. Dev.=0.1537, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8874, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

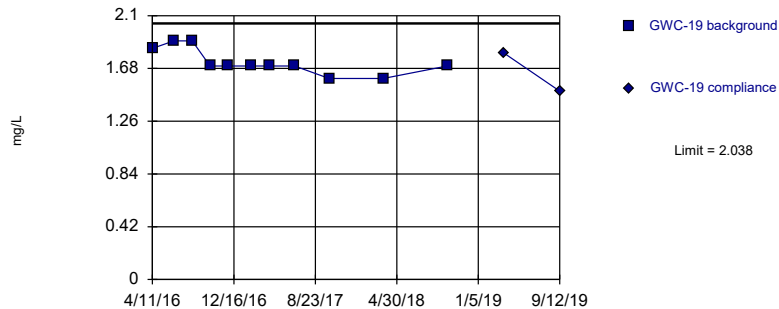
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.448, Std. Dev.=0.09558, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9086, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

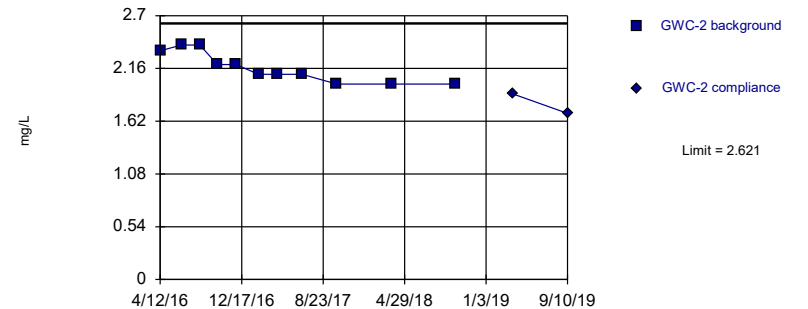
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.731, Std. Dev.=0.1044, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8202, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

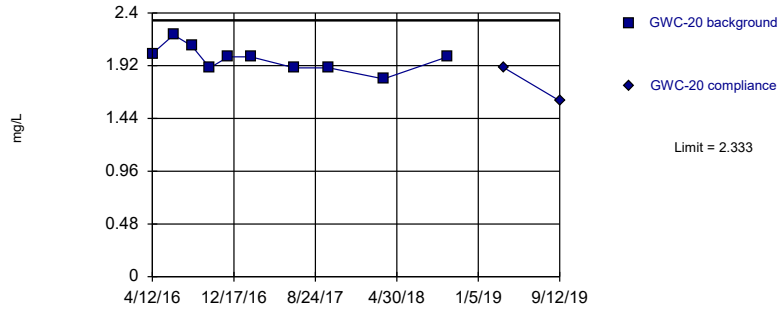
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.167, Std. Dev.=0.1542, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8694, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

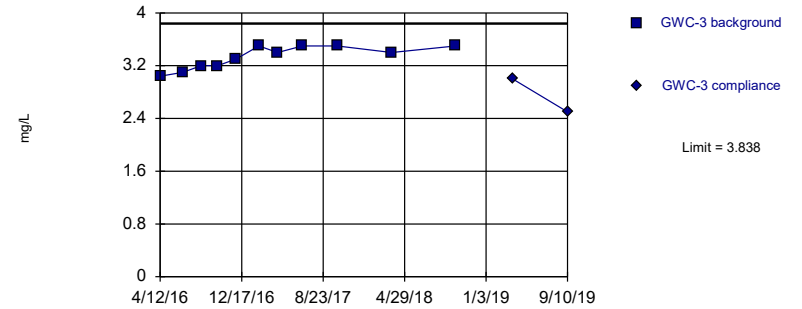
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.983, Std. Dev.=0.1145, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9536, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

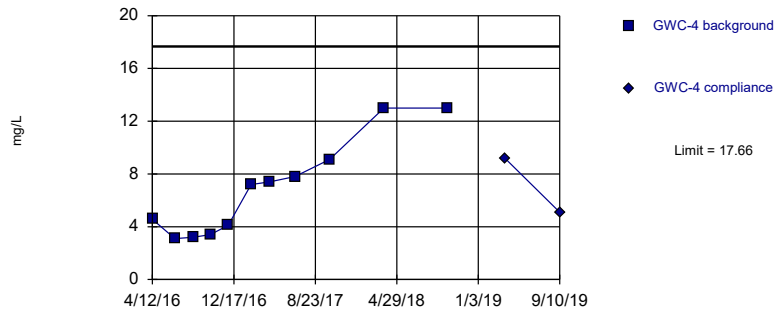
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=3.331, Std. Dev.=0.1724, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8682, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

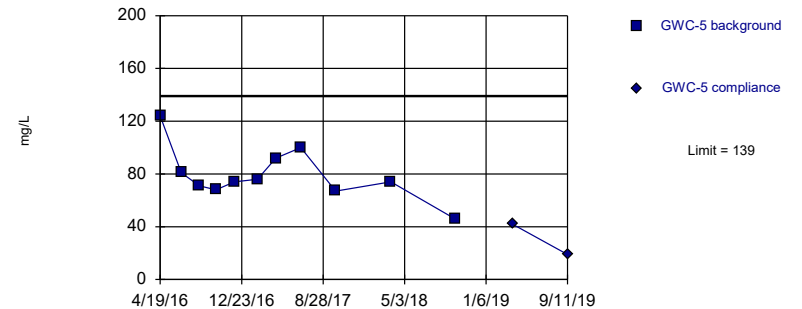
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.897, Std. Dev.=3.661, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8712, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

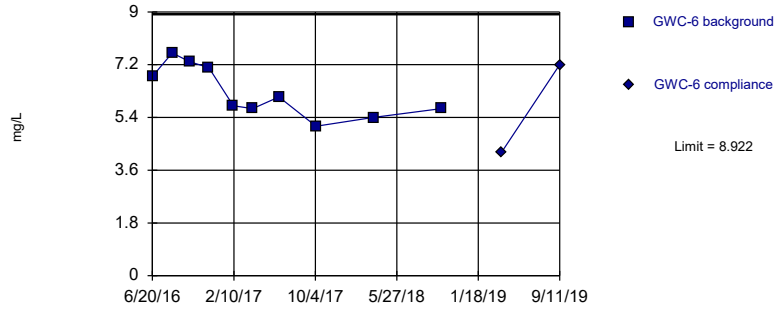
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=79.36, Std. Dev.=20.28, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

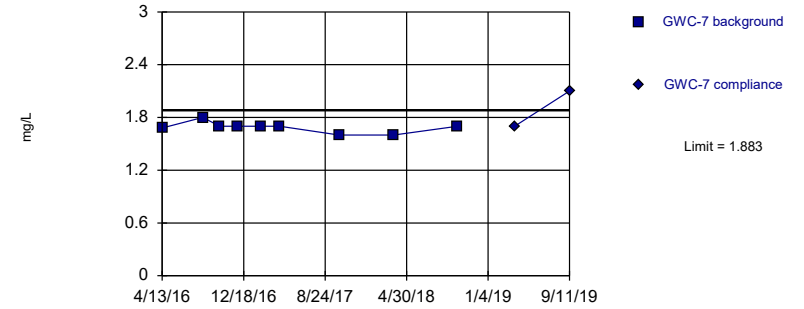
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.26, Std. Dev.=0.8708, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9206, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

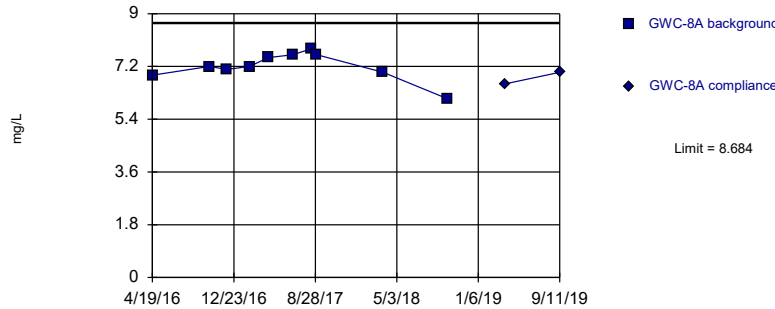
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.687, Std. Dev.=0.06, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8251, critical = 0.764. Kappa = 3.265 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

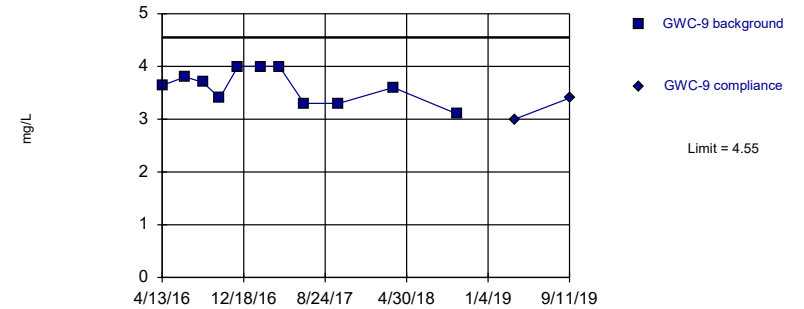
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=7.2, Std. Dev.=0.4853, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

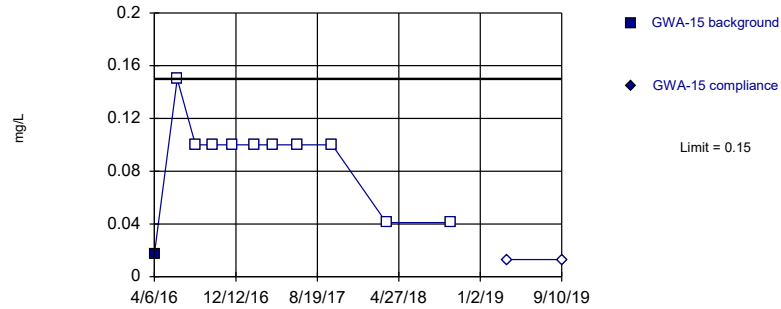


Background Data Summary: Mean=3.622, Std. Dev.=0.3157, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Chloride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

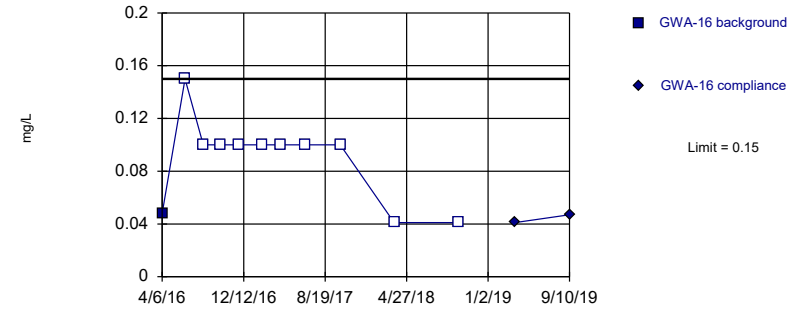


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

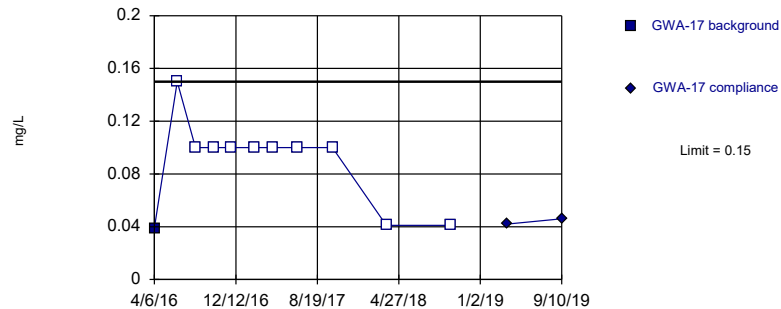


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

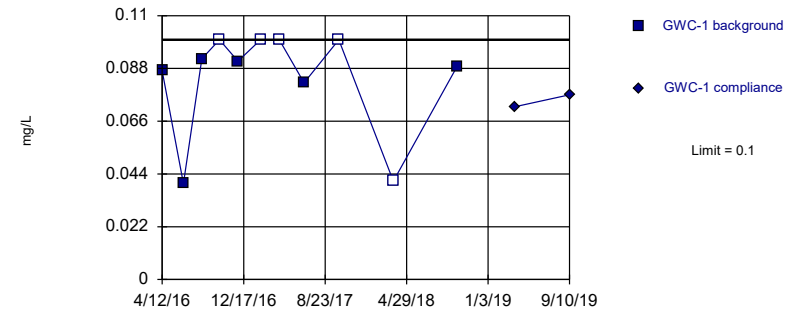


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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 11 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

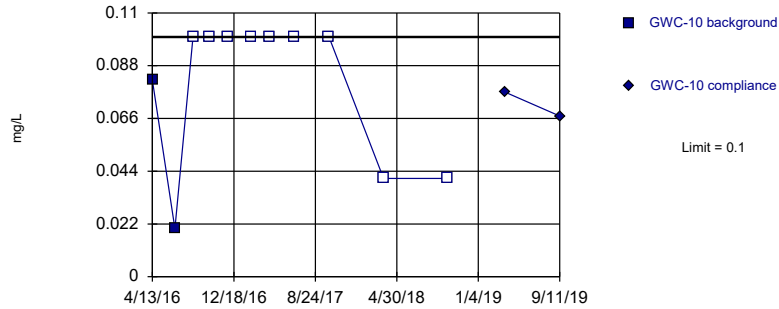
Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



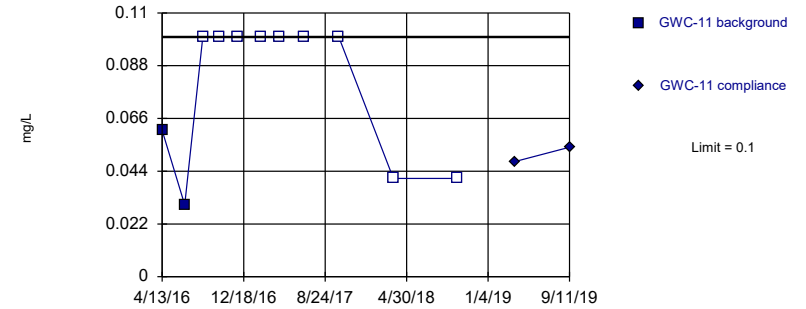
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



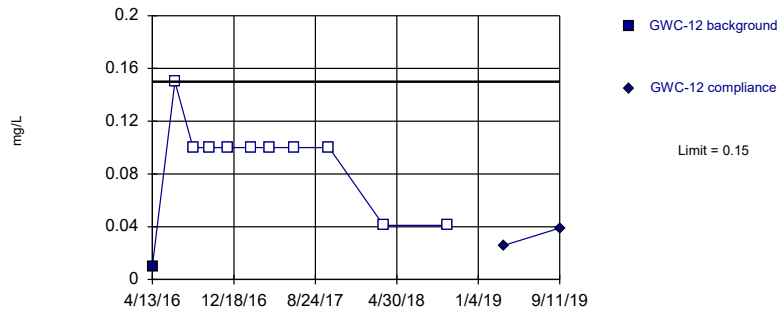
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



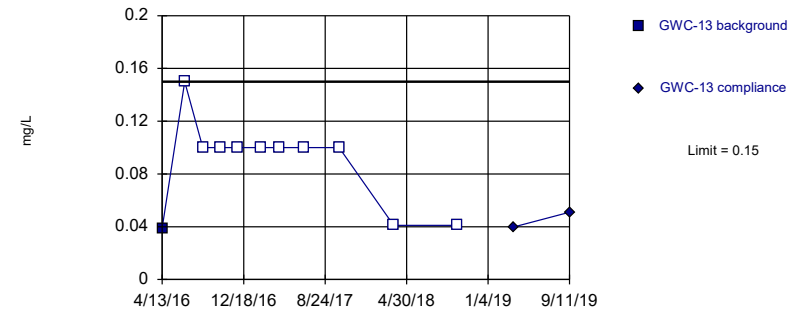
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

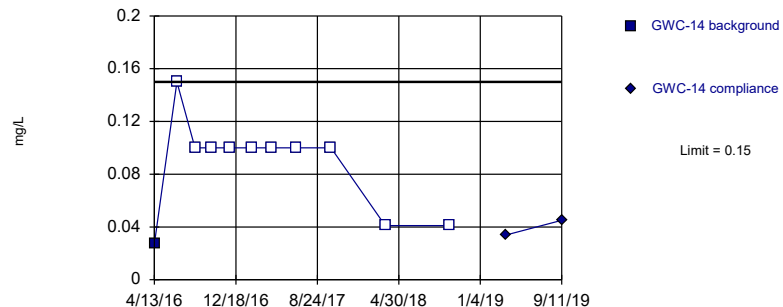


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:29 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

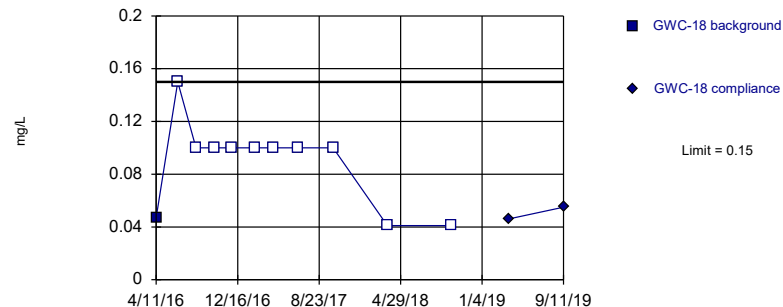


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

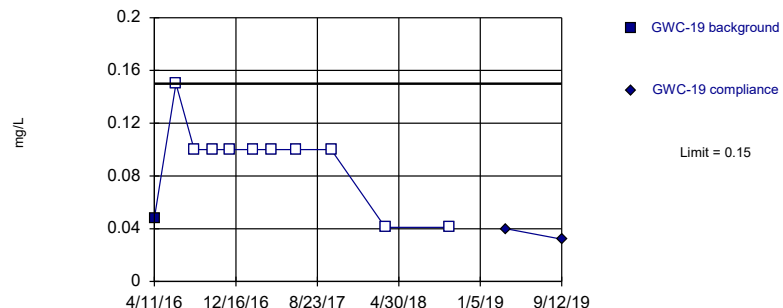


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

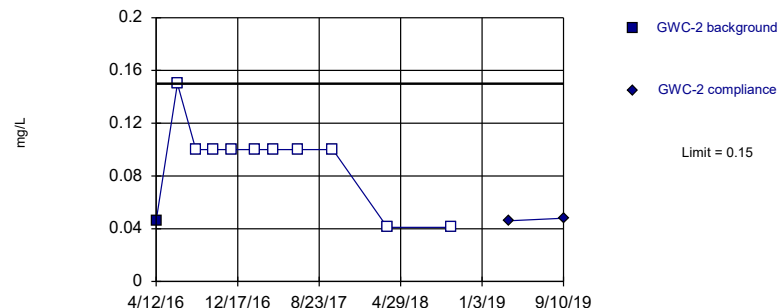


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

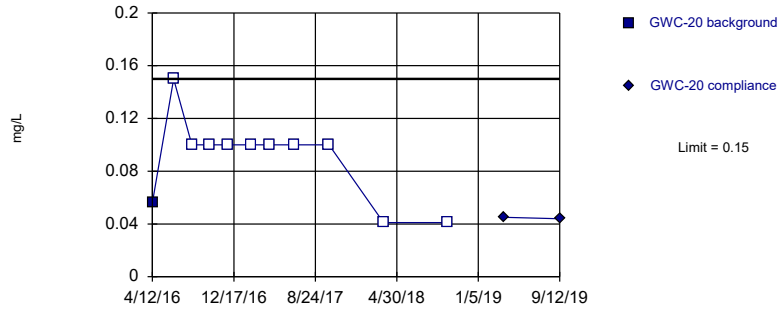
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

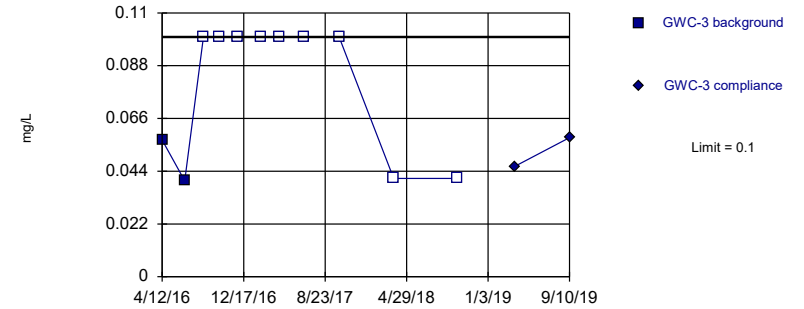
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

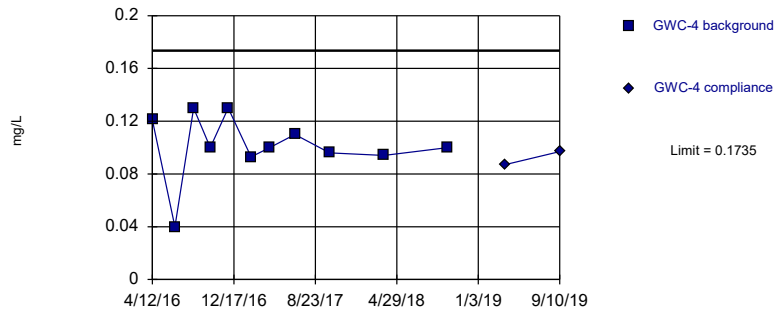
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

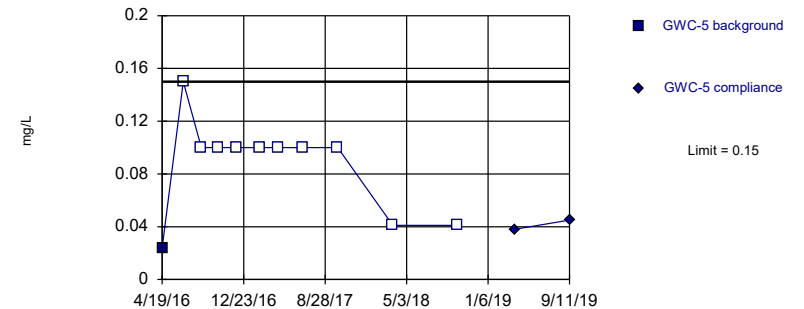
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.1013, Std. Dev.=0.02454, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8315, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

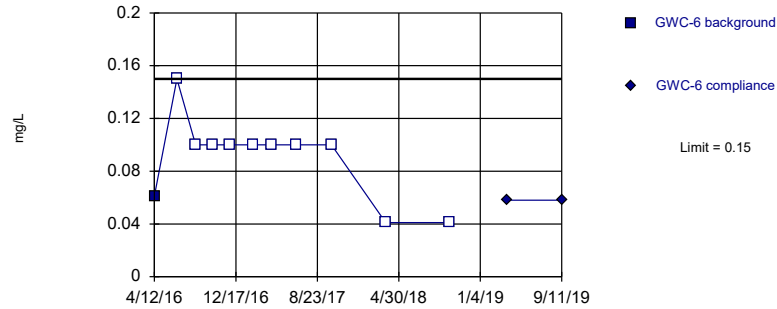
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

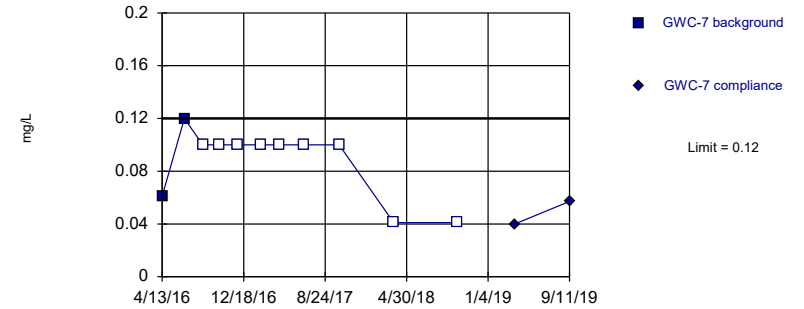
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

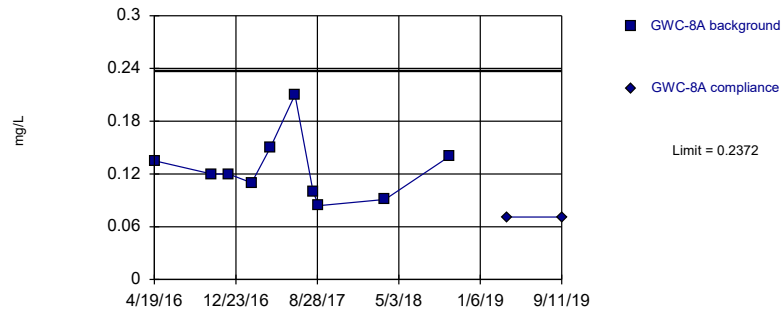
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

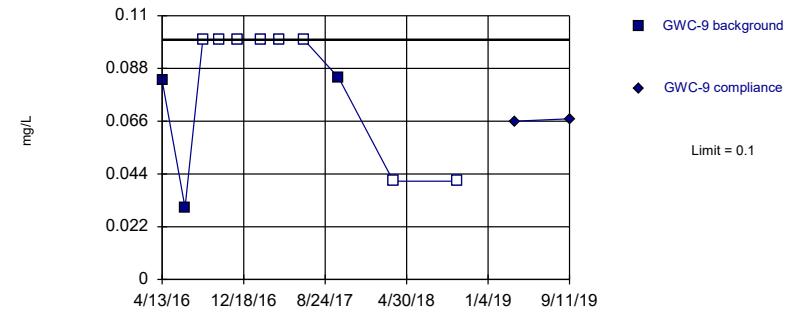
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.126, Std. Dev.=0.03637, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8975, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Non-parametric

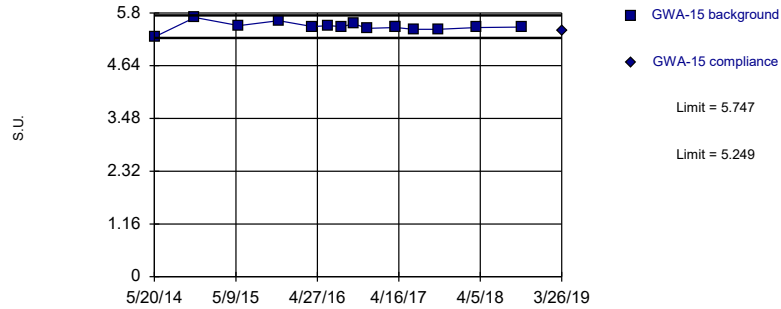


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

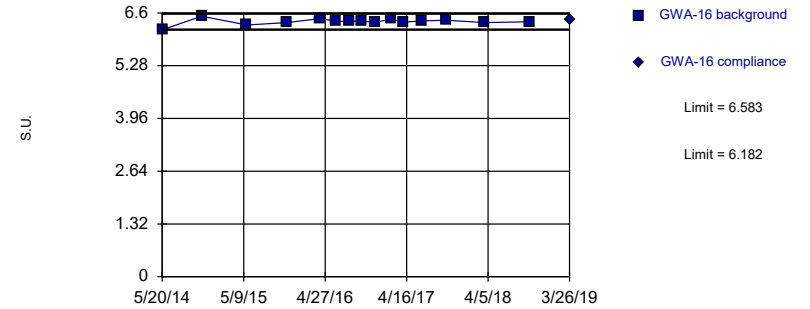


Background Data Summary: Mean=5.498, Std. Dev.=0.0942, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8953, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

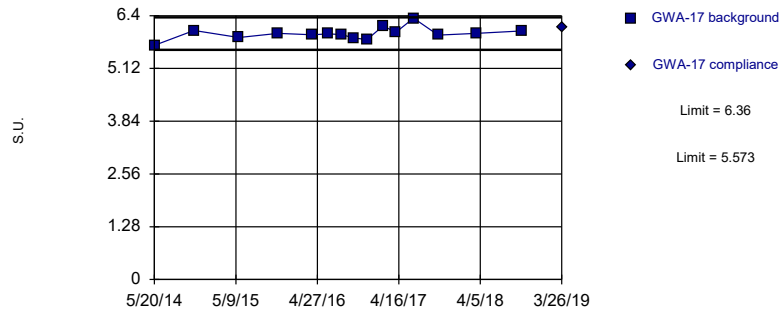


Background Data Summary: Mean=6.383, Std. Dev.=0.07611, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9003, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

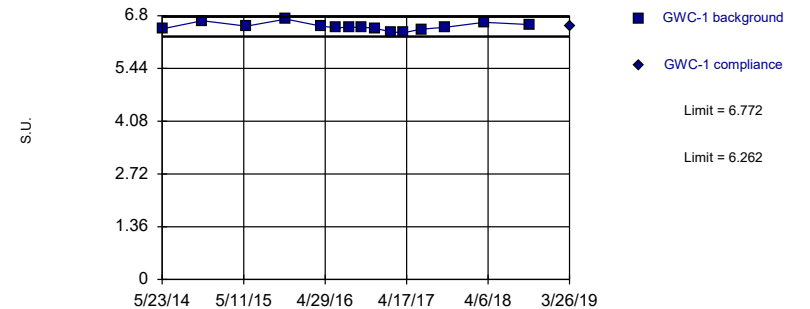


Background Data Summary: Mean=5.966, Std. Dev.=0.149, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9297, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

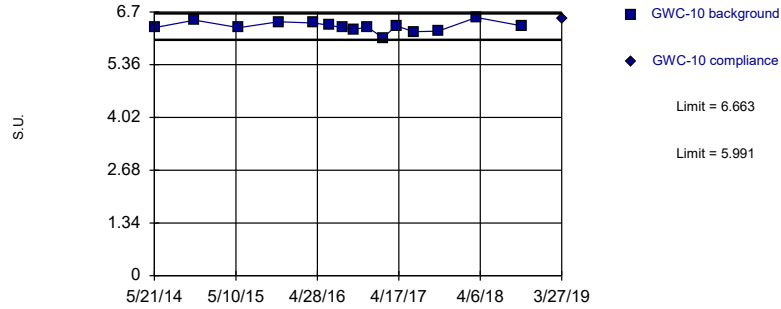


Background Data Summary: Mean=6.517, Std. Dev.=0.09662, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

### Prediction Limit Intrawell Parametric

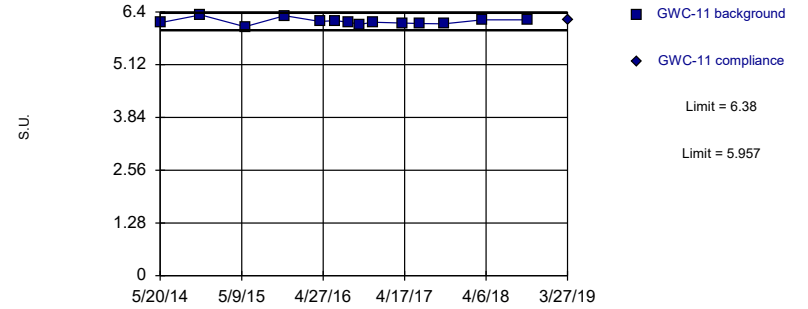


Background Data Summary: Mean=6.327, Std. Dev.=0.1274, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9732, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

### Prediction Limit Intrawell Parametric

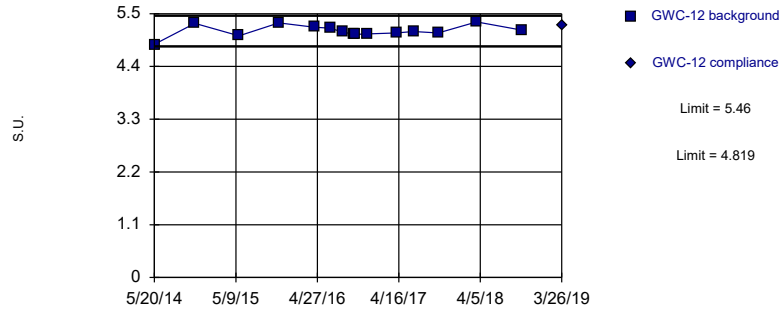


Background Data Summary: Mean=6.169, Std. Dev.=0.07843, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9278, critical = 0.825. Kappa = 2.7 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

### Prediction Limit Intrawell Parametric

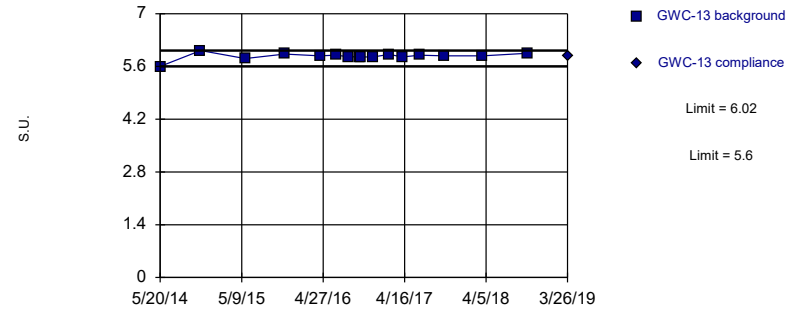


Background Data Summary: Mean=5.139, Std. Dev.=0.1214, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9362, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

### Prediction Limit Intrawell Non-parametric

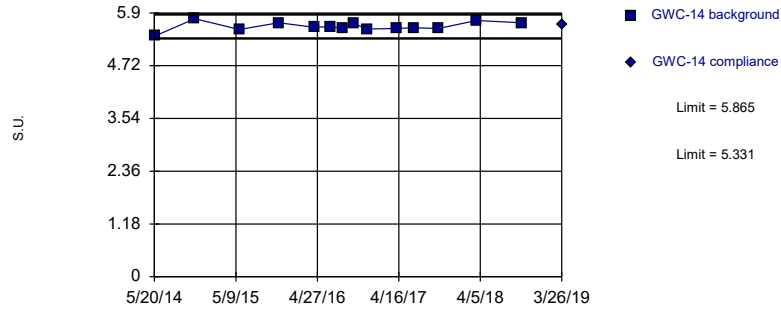


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

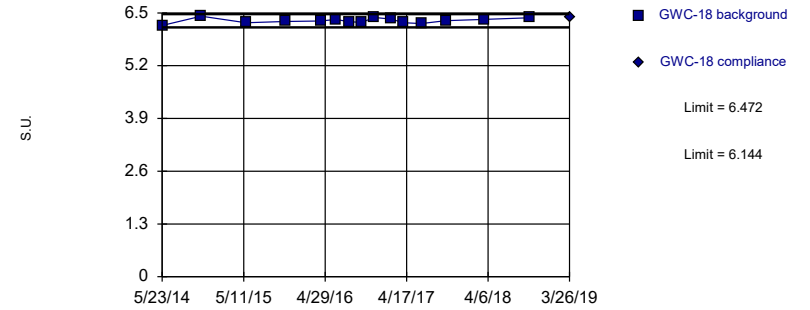


Background Data Summary: Mean=5.598, Std. Dev.=0.09885, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9374, critical = 0.825. Kappa = 2.7 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

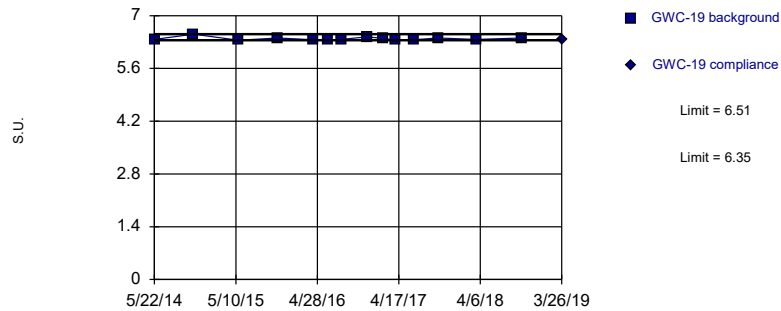


Background Data Summary: Mean=6.308, Std. Dev.=0.06213, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9832, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

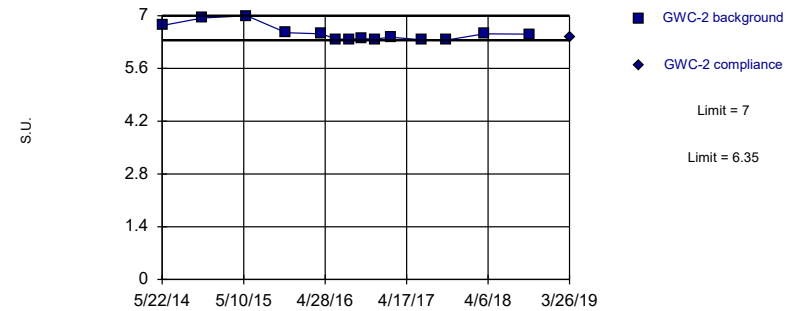


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

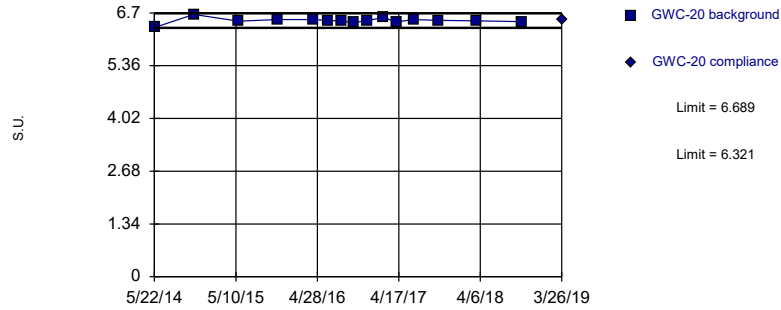


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

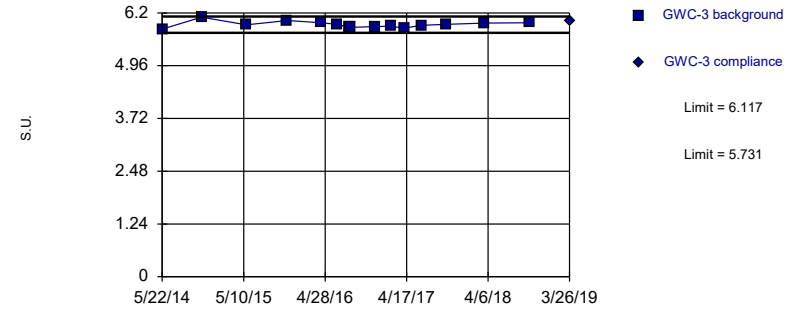


Background Data Summary: Mean=6.505, Std. Dev.=0.06978, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8797, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

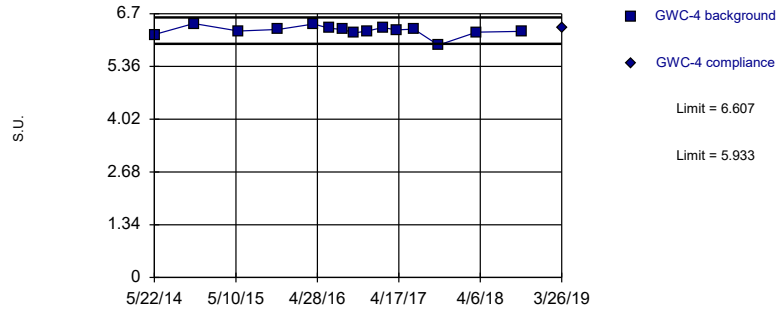


Background Data Summary: Mean=5.924, Std. Dev.=0.07327, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9486, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

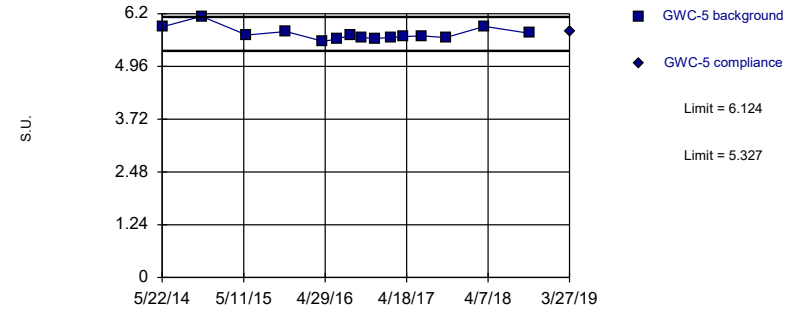


Background Data Summary: Mean=6.27, Std. Dev.=0.1276, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8483, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric



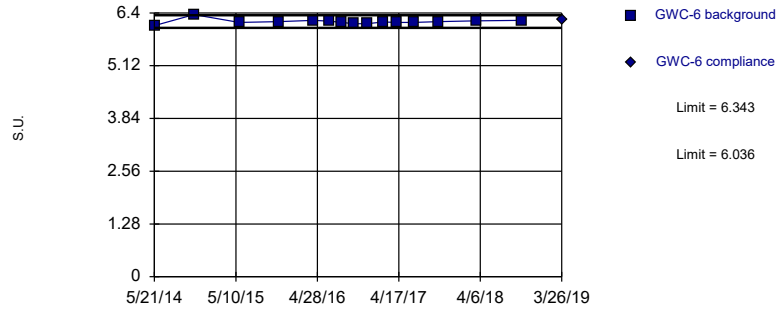
Background Data Summary: Mean=5.725, Std. Dev.=0.1511, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8366, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limits

Prediction Limit  
Intrawell Parametric

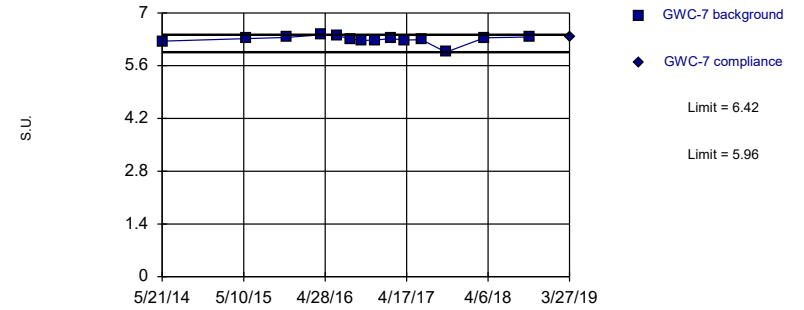


Background Data Summary (based on natural log transformation): Mean=1.823, Std. Dev.=0.009385, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8379, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Non-parametric

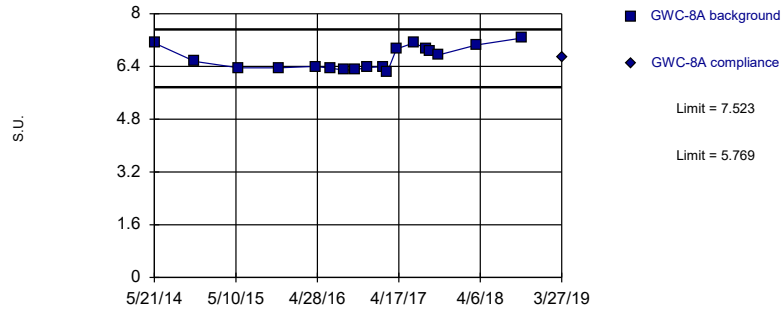


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit  
Intrawell Parametric

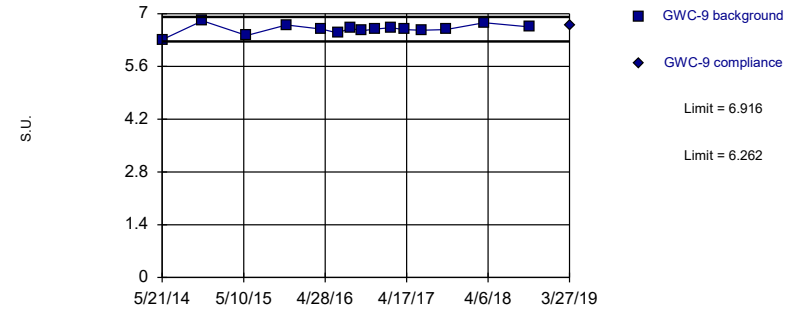


Background Data Summary: Mean=6.646, Std. Dev.=0.3493, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8617, critical = 0.858. Kappa = 2.511 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

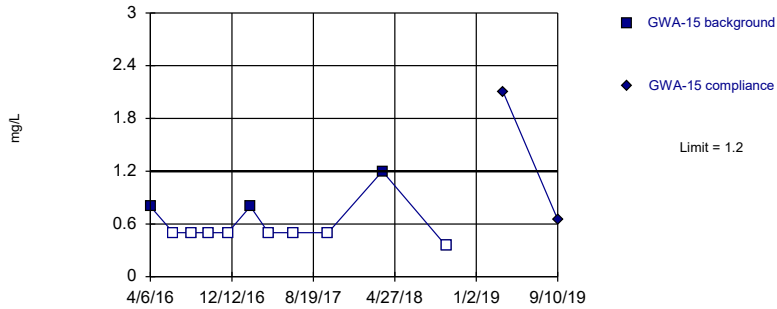
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=6.589, Std. Dev.=0.1239, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9572, critical = 0.835. Kappa = 2.638 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: pH Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

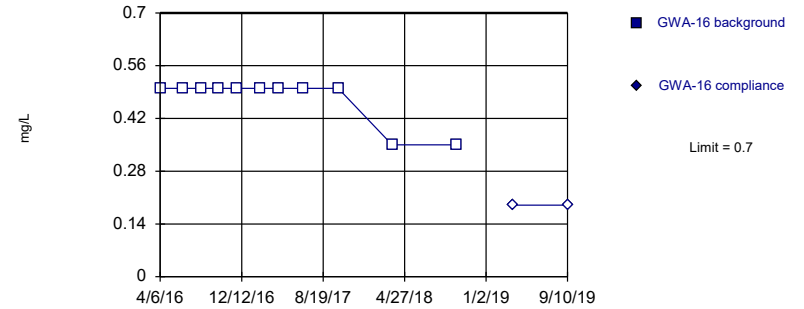
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

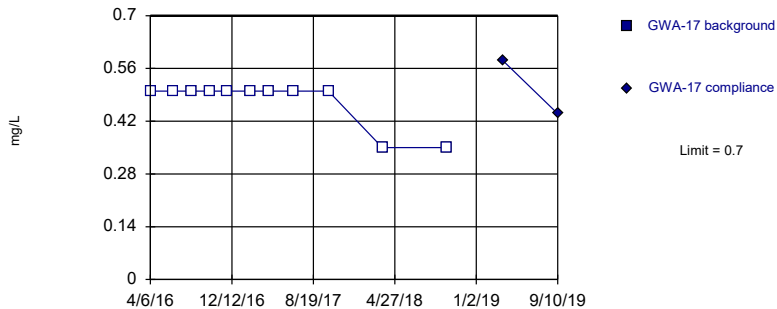
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

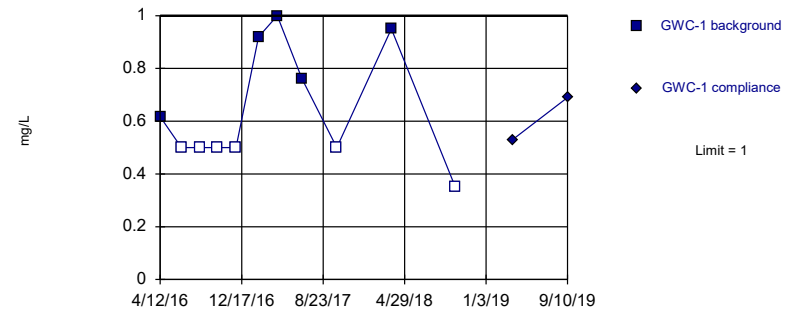
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Non-parametric

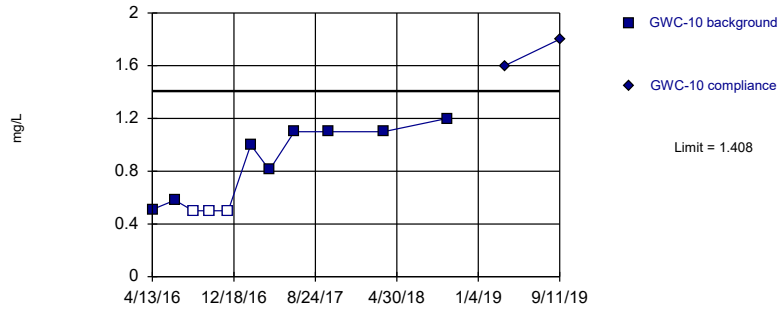


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

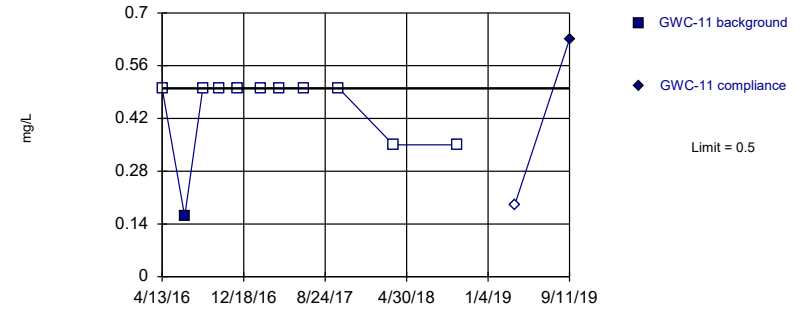


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.7273, Std. Dev.=0.2315, n=11, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8096, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

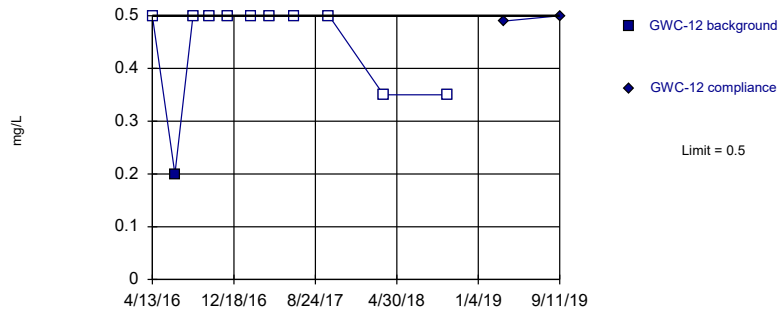


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

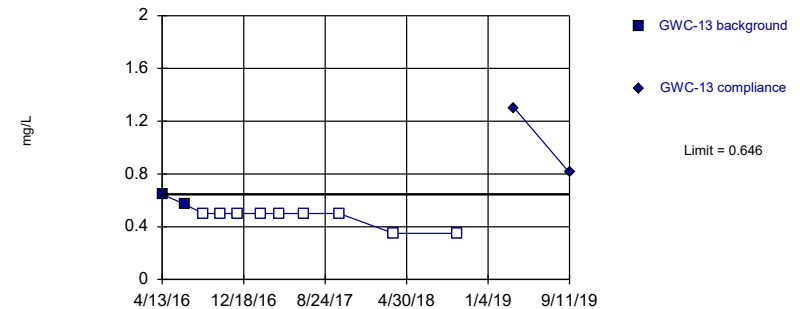


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



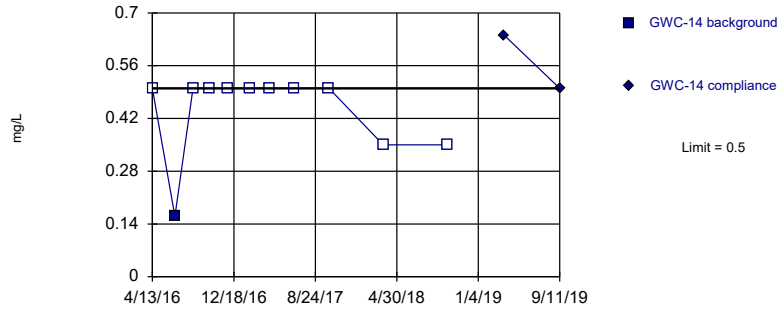
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



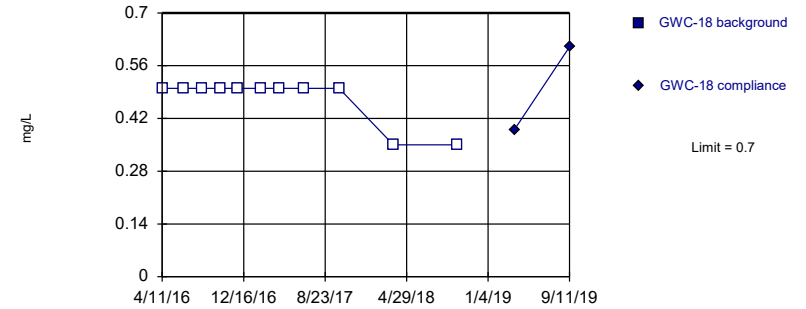
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



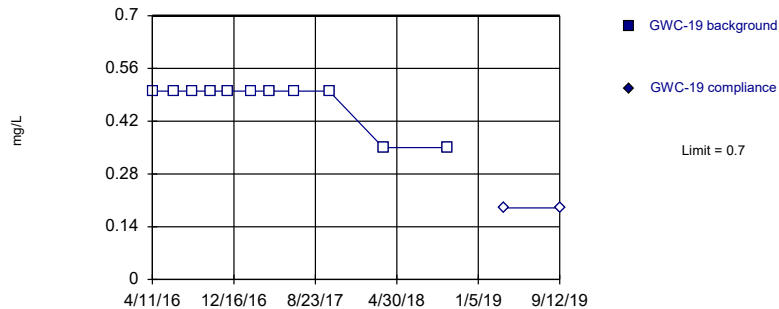
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



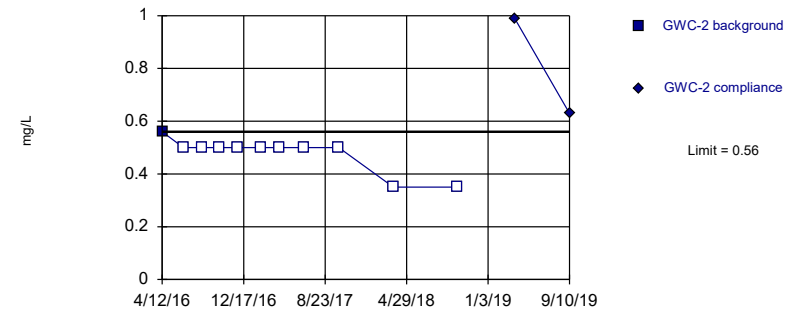
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

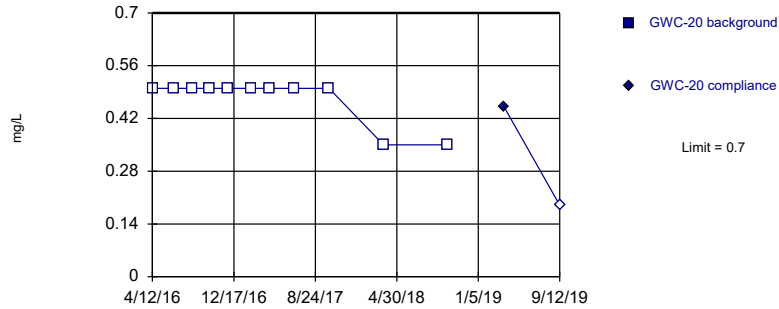
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

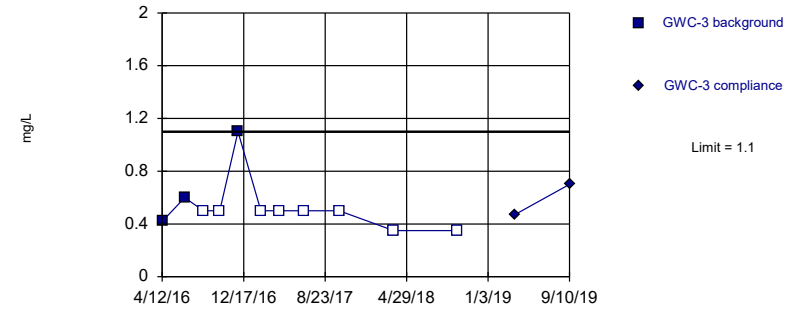
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

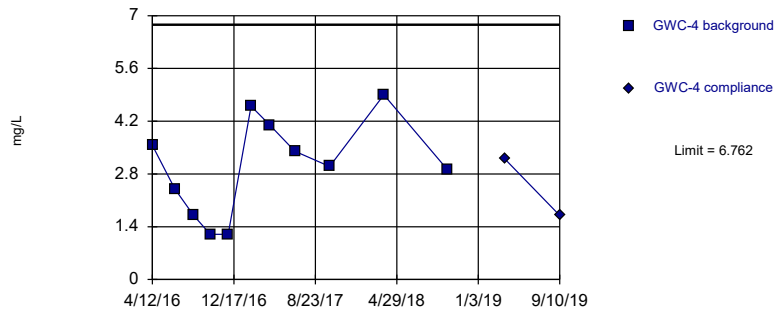
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

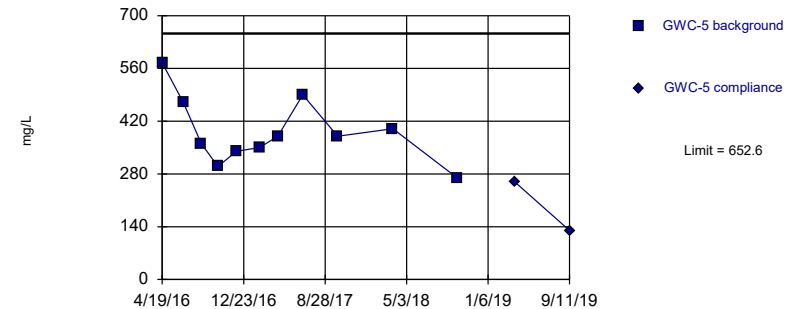
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.996, Std. Dev.=1.28, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9481, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

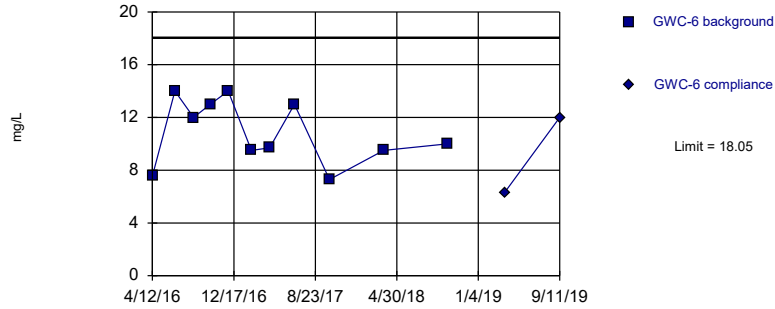


Background Data Summary: Mean=392.3, Std. Dev.=88.53, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9422, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:30 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

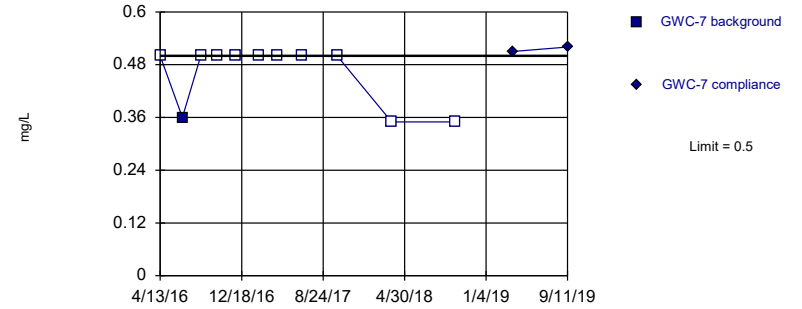


Background Data Summary: Mean=10.87, Std. Dev.=2.441, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9045, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:31 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

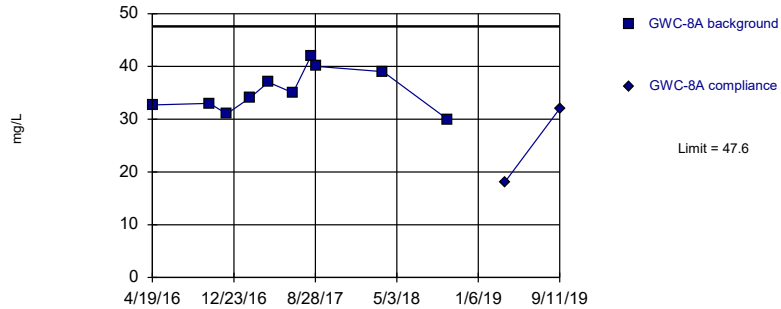


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 8:31 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

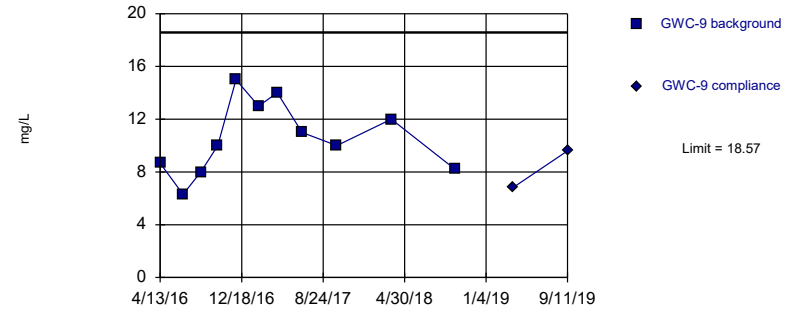


Background Data Summary: Mean=35.37, Std. Dev.=3.999, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:31 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

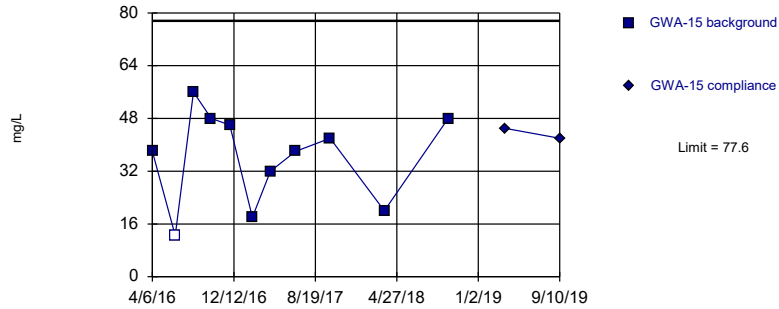
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=10.56, Std. Dev.=2.725, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9712, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Sulfate Analysis Run 1/27/2020 8:31 PM View: Cell 1 ApIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

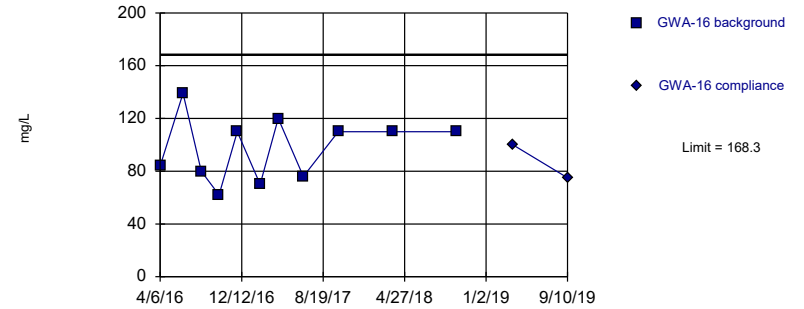
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=36.23, Std. Dev.=14.07, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9303, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

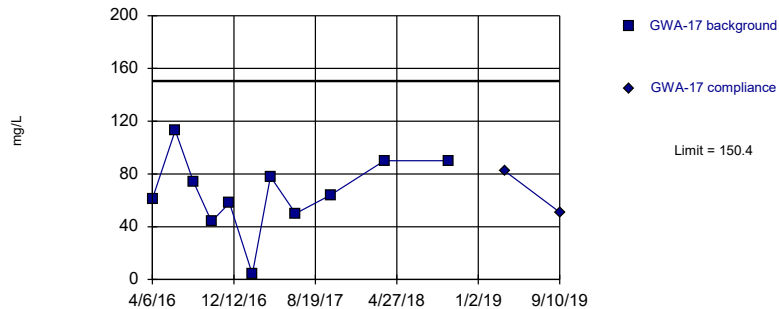
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=97.36, Std. Dev.=24.13, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9276, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

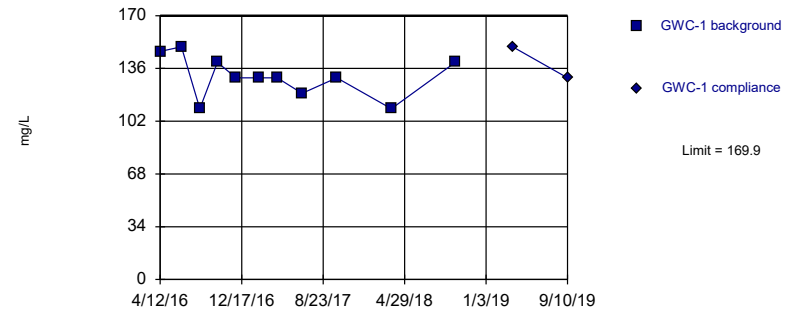
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=66, Std. Dev.=28.72, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

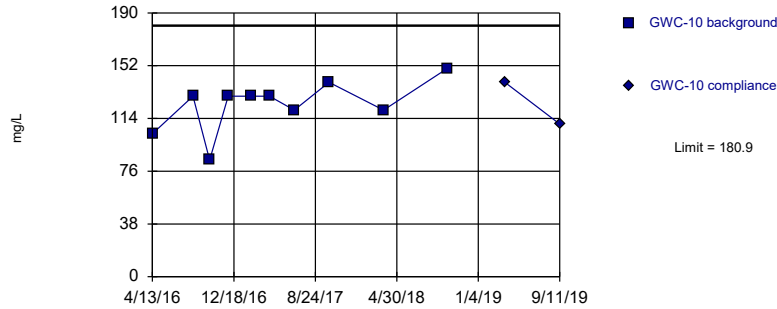
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=130.6, Std. Dev.=13.36, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9245, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

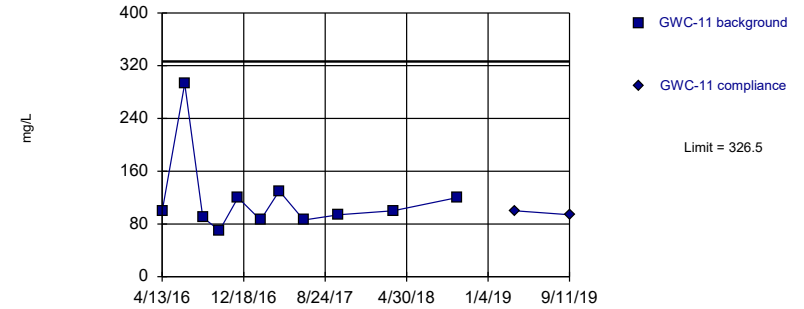
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=123.7, Std. Dev.=18.7, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9065, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

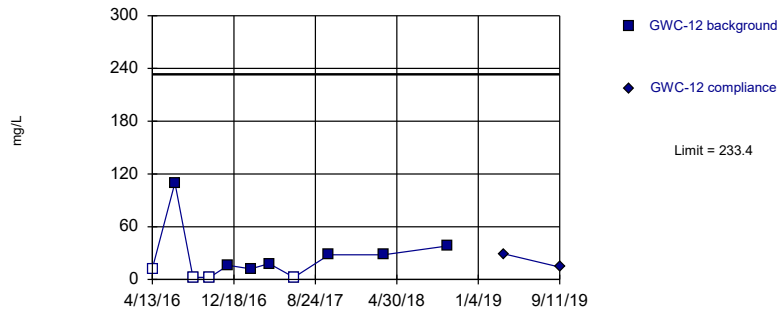
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.684, Std. Dev.=0.3756, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.796, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

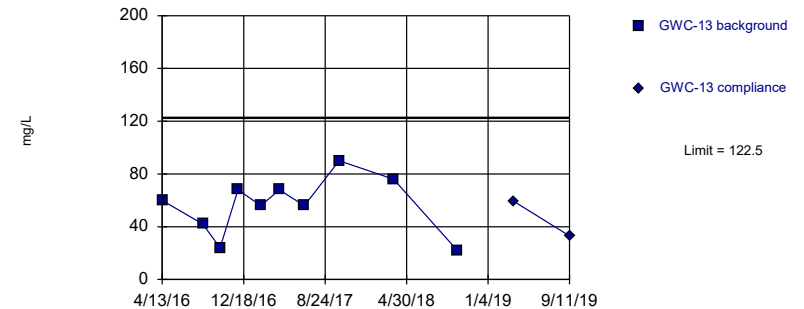
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=2.634, Std. Dev.=0.9585, n=11, 36.36% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9078, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric

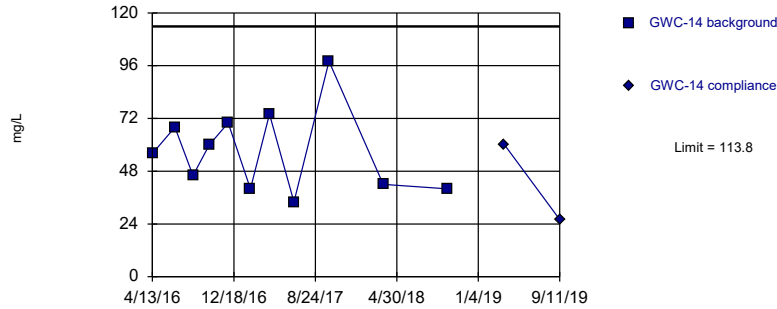


Background Data Summary: Mean=56.2, Std. Dev.=21.69, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.947, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



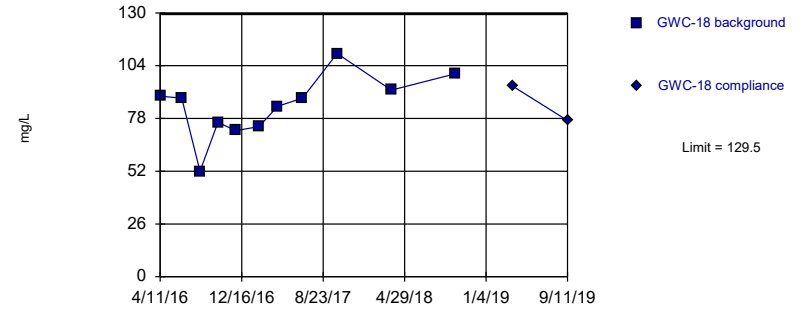
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=57.09, Std. Dev.=19.29, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

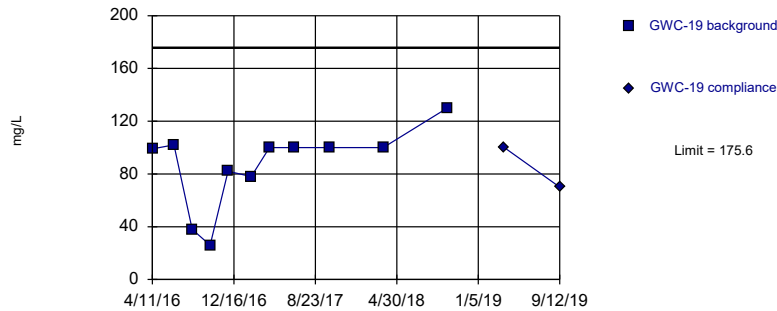
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=84.09, Std. Dev.=15.44, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

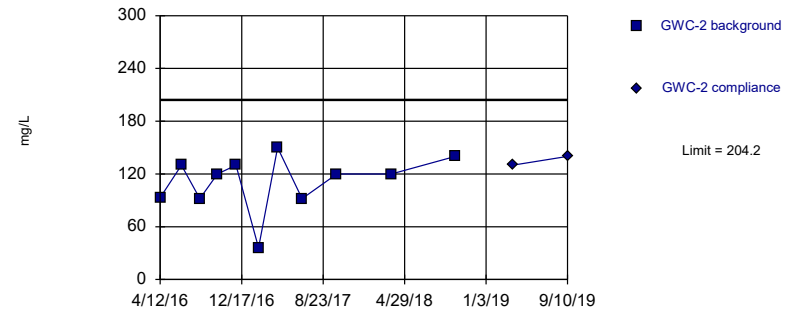
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=86.82, Std. Dev.=30.2, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8313, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

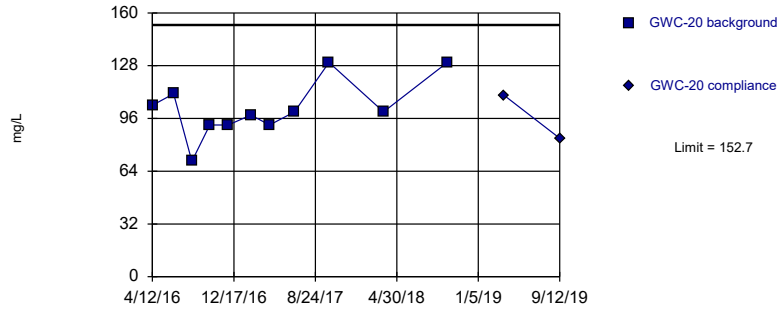
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=111.2, Std. Dev.=31.62, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.877, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

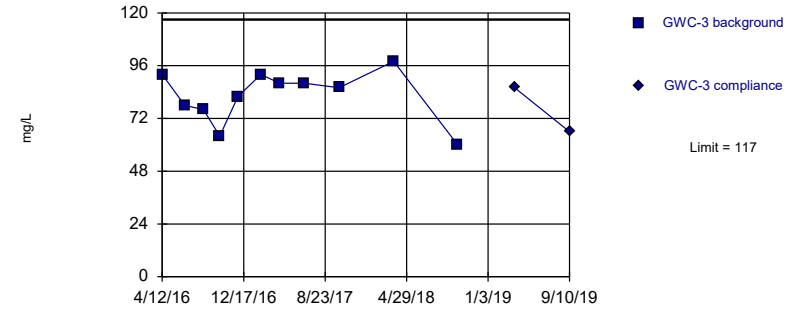
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=101.7, Std. Dev.=17.32, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9135, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

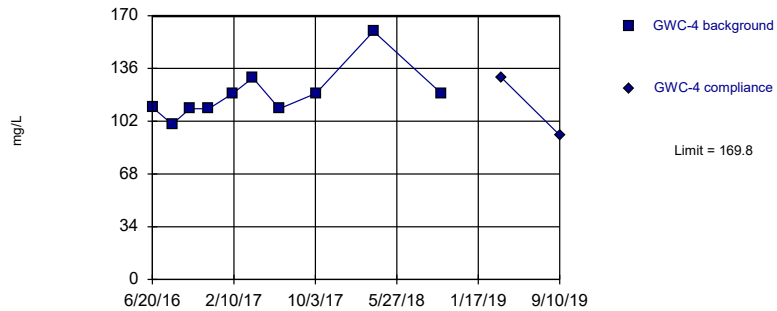
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=82.18, Std. Dev.=11.85, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9247, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

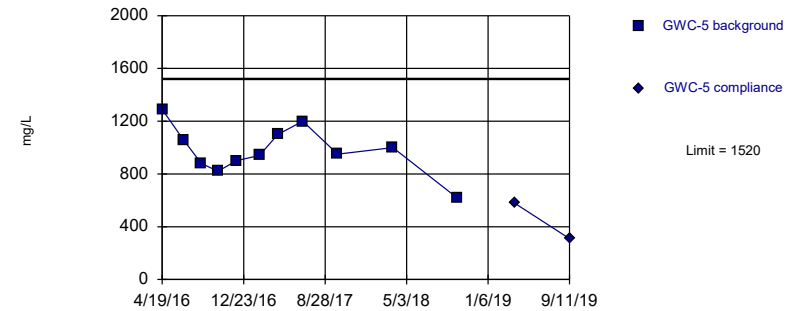
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=119.1, Std. Dev.=16.58, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8094, critical = 0.781. Kappa = 3.058 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

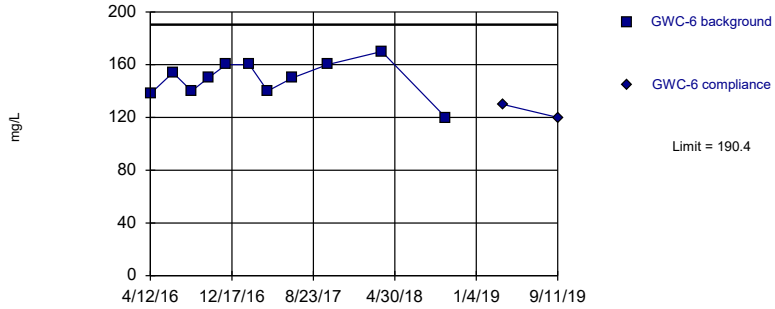
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=978.2, Std. Dev.=184.3, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9833, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

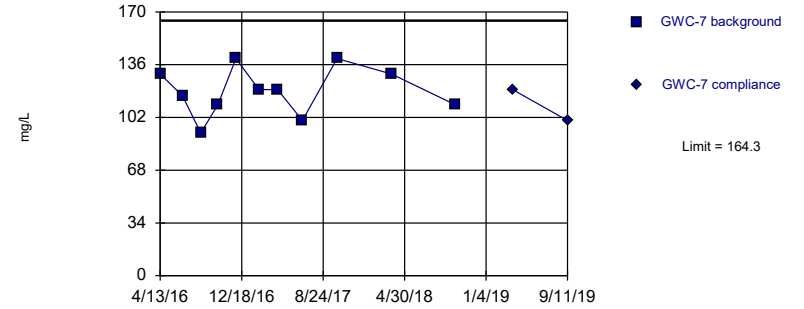
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=149.3, Std. Dev.=13.98, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9442, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

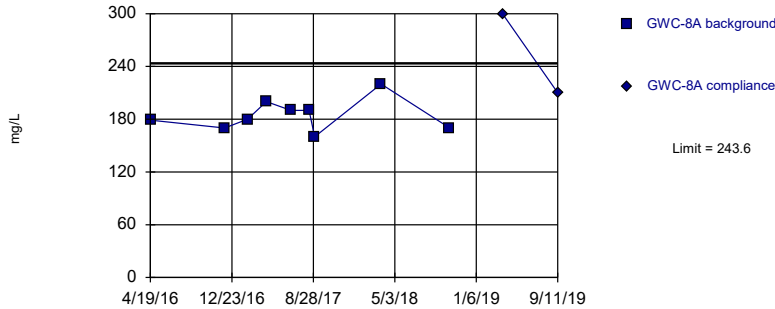
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=118.9, Std. Dev.=15.45, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9573, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

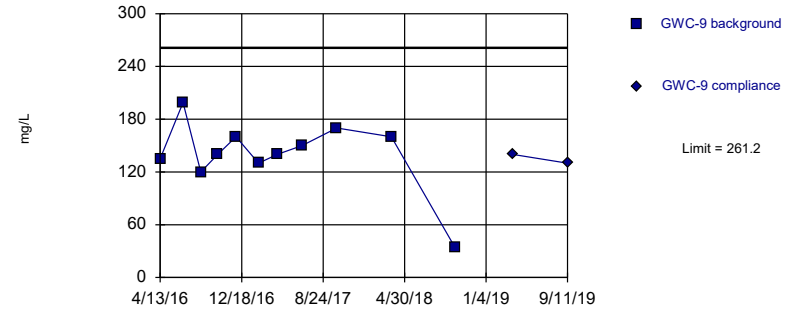
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=184.3, Std. Dev.=18.14, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9519, critical = 0.764. Kappa = 3.265 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=139.8, Std. Dev.=41.28, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8455, critical = 0.792. Kappa = 2.941 (c=7, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004426.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 8:31 PM View: Cell 1 AppIII Intra Well PLS  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

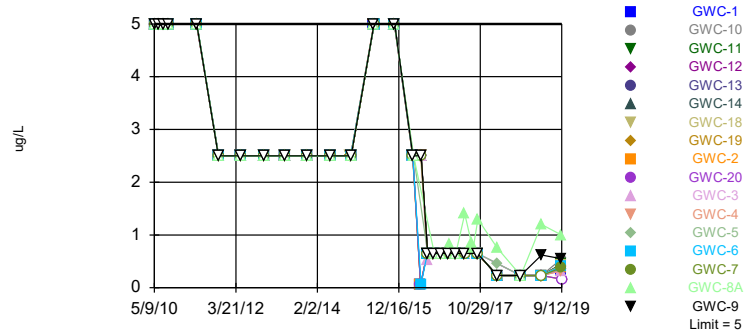
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 8:58 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic, Total (ug/L)	GWC-1	5	n/a	9/10/2019	0.33	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-10	5	n/a	9/11/2019	0.55	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-11	5	n/a	9/11/2019	0.45	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-12	5	n/a	9/11/2019	0.38	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-13	5	n/a	9/11/2019	0.42	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-14	5	n/a	9/11/2019	0.45	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-18	5	n/a	9/11/2019	0.43	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-19	5	n/a	9/12/2019	0.16ND	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-2	5	n/a	9/10/2019	0.38	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-20	5	n/a	9/12/2019	0.16ND	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-3	5	n/a	9/10/2019	0.32	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-4	5	n/a	9/10/2019	0.32	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-5	5	n/a	9/11/2019	0.38	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-6	5	n/a	9/11/2019	0.41	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-7	5	n/a	9/11/2019	0.38	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-8A	5	n/a	9/11/2019	1	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Arsenic, Total (ug/L)	GWC-9	5	n/a	9/11/2019	0.55	No	81	96.3	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-1	0.00018	n/a	9/10/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-10	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-11	0.00018	n/a	9/11/2019	0.75ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-12	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-13	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-14	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-18	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-19	0.00018	n/a	9/12/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-2	0.00018	n/a	9/10/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-20	0.00018	n/a	9/12/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-3	0.00018	n/a	9/10/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-4	0.00018	n/a	9/10/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-5	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-6	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-7	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-8A	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2
Silver (mg/L)	GWC-9	0.00018	n/a	9/11/2019	0.00009ND	No	66	100	n/a	n/a	0.000...	NP Inter (NDs) 1 of 2

Within Limit

Prediction Limit  
 Interwell Non-parametric

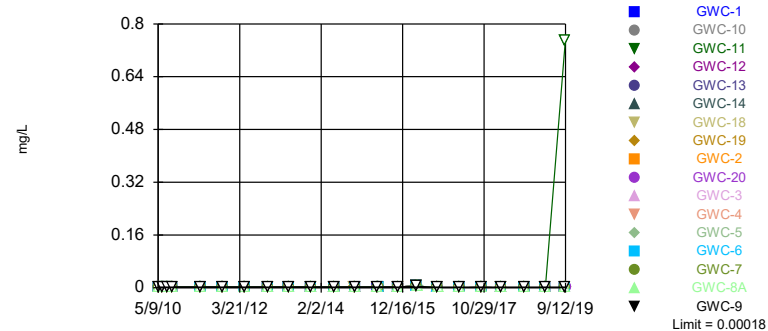


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 81 background values. 96.3% NDs. Annual per-constituent alpha = 0.009754. Individual comparison alpha = 0.0002883 (1 of 2). Comparing 17 points to limit.

Constituent: Arsenic, Total Analysis Run 1/27/2020 8:57 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 66) were censored; limit is most recent reporting limit. Annual per-constituent alpha = 0.01456. Individual comparison alpha = 0.0004314 (1 of 2). Comparing 17 points to limit.

Constituent: Silver Analysis Run 1/27/2020 8:57 PM View: Cell 1 Interwell PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (ug/L)	GWA-16	31.63	n/a	9/10/2019	39	Yes	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWA-17	50.4	n/a	9/10/2019	51	Yes	25	4	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-14	10.6	n/a	9/11/2019	11	Yes	23	4.348	n/a	n/a	0.003415	NP Intra (normality) ...
Barium, Total (ug/L)	GWC-19	19.1	n/a	9/12/2019	26	Yes	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
Chromium, Total (ug/L)	GWA-16	7.077	n/a	9/10/2019	7.6	Yes	25	4	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWA-17	10.39	n/a	9/10/2019	12	Yes	25	4	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-10	21.5	n/a	9/11/2019	23	Yes	25	0	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-12	3.548	n/a	9/11/2019	3.6	Yes	24	41.67	Kapla...	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-2	12.2	n/a	9/10/2019	14	Yes	25	8	n/a	n/a	0.002832	NP Intra (normality) ...
Vanadium (mg/L)	GWA-17	0.008211	n/a	9/10/2019	0.0091	Yes	20	20	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-11	0.01474	n/a	9/11/2019	0.015	Yes	20	5	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-12	0.005	n/a	9/11/2019	0.0052	Yes	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-13	0.005	n/a	9/11/2019	0.0062	Yes	20	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-14	0.005	n/a	9/11/2019	0.0062	Yes	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-18	0.009816	n/a	9/11/2019	0.011	Yes	20	5	None	ln(x)	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, Total (ug/L)	GWA-15	25	n/a	9/10/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWA-16	25	n/a	9/10/2019	0.19ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWA-17	25	n/a	9/10/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-1	25	n/a	9/10/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-10	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-11	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-12	25	n/a	9/11/2019	0.19ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-13	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-14	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-18	25	n/a	9/11/2019	0.39	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-19	25	n/a	9/12/2019	0.19ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-2	25	n/a	9/10/2019	0.42	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-20	25	n/a	9/12/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-3	25	n/a	9/10/2019	0.19ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-4	25	n/a	9/10/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-5	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-6	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-7	25	n/a	9/11/2019	0.19ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-8A	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Antimony, Total (ug/L)	GWC-9	25	n/a	9/11/2019	0.19ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Barium, Total (ug/L)	GWA-15	12	n/a	9/10/2019	11	No	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
<b>Barium, Total (ug/L)</b>	<b>GWA-16</b>	<b>31.63</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>39</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
<b>Barium, Total (ug/L)</b>	<b>GWA-17</b>	<b>50.4</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>51</b>	<b>Yes</b>	<b>25</b>	<b>4</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Barium, Total (ug/L)	GWC-1	58.21	n/a	9/10/2019	46	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-10	35.06	n/a	9/11/2019	33	No	25	8	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-11	18	n/a	9/11/2019	17	No	25	8	n/a	n/a	0.002832	NP Intra (normality) ...
Barium, Total (ug/L)	GWC-12	18	n/a	9/11/2019	17	No	25	8	n/a	n/a	0.002832	NP Intra (normality) ...
Barium, Total (ug/L)	GWC-13	41.98	n/a	9/11/2019	35	No	25	0	None	ln(x)	0.000...	Param Intra 1 of 2
<b>Barium, Total (ug/L)</b>	<b>GWC-14</b>	<b>10.6</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>11</b>	<b>Yes</b>	<b>23</b>	<b>4.348</b>	<b>n/a</b>	<b>n/a</b>	<b>0.003415</b>	<b>NP Intra (normality) ...</b>
Barium, Total (ug/L)	GWC-18	41	n/a	9/11/2019	35	No	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
<b>Barium, Total (ug/L)</b>	<b>GWC-19</b>	<b>19.1</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>26</b>	<b>Yes</b>	<b>25</b>	<b>4</b>	<b>n/a</b>	<b>n/a</b>	<b>0.002832</b>	<b>NP Intra (normality) ...</b>
Barium, Total (ug/L)	GWC-2	55.58	n/a	9/10/2019	47	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-20	35	n/a	9/12/2019	35	No	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
Barium, Total (ug/L)	GWC-3	39	n/a	9/10/2019	14	No	24	4.167	n/a	n/a	0.003124	NP Intra (normality) ...
Barium, Total (ug/L)	GWC-4	50.34	n/a	9/10/2019	37	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-5	197.3	n/a	9/11/2019	39	No	25	0	None	ln(x)	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-6	66.59	n/a	9/11/2019	59	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-7	41.77	n/a	9/11/2019	35	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-8A	112.5	n/a	9/11/2019	22	No	25	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (ug/L)	GWC-9	36.26	n/a	9/11/2019	28	No	25	4	None	No	0.000...	Param Intra 1 of 2
Beryllium, Total (ug/L)	GWA-15	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWA-16	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWA-17	1.5	n/a	9/10/2019	0.09ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-1	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-10	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-11	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-12	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-13	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-14	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-18	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium, Total (ug/L)	GWC-19	1.5	n/a	9/12/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-2	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-20	1.5	n/a	9/12/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-3	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-4	1.5	n/a	9/10/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-5	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-6	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-7	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-8A	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Beryllium, Total (ug/L)	GWC-9	1.5	n/a	9/11/2019	0.09ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWA-15	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWA-16	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWA-17	2.5	n/a	9/10/2019	0.13	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-1	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-10	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-11	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-12	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-13	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-14	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-18	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-19	2.5	n/a	9/12/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-2	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-20	2.5	n/a	9/12/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-3	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-4	2.5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-5	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-6	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-7	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-8A	2.5	n/a	9/11/2019	0.065ND	No	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Cadmium, Total (ug/L)	GWC-9	2.5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Chromium, Total (ug/L)	GWA-15	5	n/a	9/10/2019	2.3	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
<b>Chromium, Total (ug/L)</b>	<b>GWA-16</b>	<b>7.077</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>7.6</b>	<b>Yes</b>	<b>25</b>	<b>4</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
<b>Chromium, Total (ug/L)</b>	<b>GWA-17</b>	<b>10.39</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>12</b>	<b>Yes</b>	<b>25</b>	<b>4</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chromium, Total (ug/L)	GWC-1	19	n/a	9/10/2019	18	No	25	0	None	No	0.000...	Param Intra 1 of 2
<b>Chromium, Total (ug/L)</b>	<b>GWC-10</b>	<b>21.5</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>23</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chromium, Total (ug/L)	GWC-11	12	n/a	9/11/2019	11	No	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
<b>Chromium, Total (ug/L)</b>	<b>GWC-12</b>	<b>3.548</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>3.6</b>	<b>Yes</b>	<b>24</b>	<b>41.67</b>	<b>Kapla...</b>	<b>In(x)</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chromium, Total (ug/L)	GWC-13	8.86	n/a	9/11/2019	7.5	No	24	0	None	In(x)	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-14	5	n/a	9/11/2019	3.8	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Chromium, Total (ug/L)	GWC-18	20	n/a	9/11/2019	17	No	25	0	n/a	n/a	0.002832	NP Intra (normality) ...
Chromium, Total (ug/L)	GWC-19	14.92	n/a	9/12/2019	12	No	25	4	None	No	0.000...	Param Intra 1 of 2
<b>Chromium, Total (ug/L)</b>	<b>GWC-2</b>	<b>12.2</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>14</b>	<b>Yes</b>	<b>25</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>	<b>0.002832</b>	<b>NP Intra (normality) ...</b>
Chromium, Total (ug/L)	GWC-20	15.04	n/a	9/12/2019	11	No	25	8	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-3	22	n/a	9/10/2019	9.2	No	24	4.167	n/a	n/a	0.003124	NP Intra (normality) ...
Chromium, Total (ug/L)	GWC-4	10.66	n/a	9/10/2019	6.7	No	25	4	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-5	12	n/a	9/11/2019	7.9	No	25	4	n/a	n/a	0.002832	NP Intra (normality) ...
Chromium, Total (ug/L)	GWC-6	10.8	n/a	9/11/2019	7.8	No	25	8	None	In(x)	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-7	16.65	n/a	9/11/2019	13	No	25	0	None	In(x)	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-8A	90.41	n/a	9/11/2019	5.2	No	25	32	Kapla...	In(x)	0.000...	Param Intra 1 of 2
Chromium, Total (ug/L)	GWC-9	12.75	n/a	9/11/2019	12	No	25	4	None	No	0.000...	Param Intra 1 of 2



# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt, Total (ug/L)	GWA-15	5	n/a	9/10/2019	1.2	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWA-16	5	n/a	9/10/2019	0.31	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWA-17	5	n/a	9/10/2019	0.52	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-1	5	n/a	9/10/2019	0.0375ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-10	5	n/a	9/11/2019	0.0375ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-11	5	n/a	9/11/2019	0.0375ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-12	5	n/a	9/11/2019	0.42	No	25	80	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-13	5	n/a	9/11/2019	0.0375ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-14	5	n/a	9/11/2019	0.0375ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-18	5	n/a	9/11/2019	0.23	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-19	5	n/a	9/12/2019	0.21	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-2	5	n/a	9/10/2019	0.15	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-20	5	n/a	9/12/2019	0.21	No	25	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-3	5	n/a	9/10/2019	0.28	No	23	86.96	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-4	5	n/a	9/10/2019	0.0375ND	No	25	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-5	5	n/a	9/11/2019	0.099	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-6	5	n/a	9/11/2019	0.087	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-7	5	n/a	9/11/2019	0.16	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-8A	5	n/a	9/11/2019	0.85	No	22	63.64	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Cobalt, Total (ug/L)	GWC-9	5	n/a	9/11/2019	0.16	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-15	0.0125	n/a	9/10/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-16	0.0125	n/a	9/10/2019	0.00095	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-17	0.0125	n/a	9/10/2019	0.0012	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1	0.0125	n/a	9/10/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-10	0.0125	n/a	9/11/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-11	0.0125	n/a	9/11/2019	0.000315ND	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-12	0.0125	n/a	9/11/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-13	0.0125	n/a	9/11/2019	0.000315ND	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-14	0.0125	n/a	9/11/2019	0.000315ND	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-18	0.0125	n/a	9/11/2019	0.00084	No	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-19	0.0125	n/a	3/26/2019	0.00105ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.0125	n/a	9/10/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-20	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3	0.0125	n/a	9/10/2019	0.0011	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4	0.0125	n/a	9/10/2019	0.0017	No	20	55	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5	0.0125	n/a	9/11/2019	0.000315ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6	0.0125	n/a	9/11/2019	0.00066	No	20	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-7	0.0125	n/a	9/11/2019	0.00086	No	19	78.95	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-8A	0.6551	n/a	9/11/2019	0.000315ND	No	20	20	Kapla...	ln(x)	0.000...	Param Intra 1 of 2
Copper (mg/L)	GWC-9	0.0125	n/a	9/11/2019	0.000315ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWA-15	5	n/a	9/10/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWA-16	5.1	n/a	9/10/2019	0.16	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWA-17	5	n/a	9/10/2019	0.22	No	25	76	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-1	4.4	n/a	9/10/2019	0.065ND	No	24	66.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-10	7	n/a	9/11/2019	0.065ND	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-11	5.1	n/a	9/11/2019	0.065ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-12	5	n/a	9/11/2019	0.065ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-13	5	n/a	9/11/2019	0.065ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-14	5	n/a	9/11/2019	0.065ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-18	5.2	n/a	9/11/2019	0.065ND	No	25	72	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Lead, Total (ug/L)	GWC-19	5.6	n/a	9/12/2019	0.065ND	No	25	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-2	6.3	n/a	9/10/2019	0.065ND	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-20	5.6	n/a	9/12/2019	0.065ND	No	25	68	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-3	11	n/a	9/10/2019	0.065ND	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-4	6.2	n/a	9/10/2019	0.065ND	No	25	68	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-5	2.5	n/a	9/11/2019	0.065ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-6	6.7	n/a	9/11/2019	0.065ND	No	25	72	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-7	6.4	n/a	9/11/2019	0.065ND	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-8A	8.3	n/a	9/11/2019	0.065ND	No	20	65	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Lead, Total (ug/L)	GWC-9	6.9	n/a	9/11/2019	0.065ND	No	25	64	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-15	0.00025	n/a	9/10/2019	0.00005ND	No	25	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-16	0.00025	n/a	9/10/2019	0.00005ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-17	0.00025	n/a	9/10/2019	0.00005ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1	0.00025	n/a	9/10/2019	0.00005ND	No	25	92	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-10	0.00025	n/a	9/11/2019	0.00005ND	No	25	88	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-11	0.00025	n/a	9/11/2019	0.00005ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-12	0.00025	n/a	9/11/2019	0.00005ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-13	0.00025	n/a	9/11/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-14	0.00025	n/a	9/11/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-18	0.00025	n/a	9/11/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-19	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2	0.00025	n/a	9/10/2019	0.00005ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-20	0.00025	n/a	9/12/2019	0.00005ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3	0.00025	n/a	9/10/2019	0.00005ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4	0.00025	n/a	9/10/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5	0.00025	n/a	9/11/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6	0.00025	n/a	9/11/2019	0.00005ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-7	0.00025	n/a	9/11/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-8A	0.00025	n/a	9/11/2019	0.00005ND	No	22	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-9	0.00025	n/a	9/11/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-15	0.0025	n/a	9/10/2019	0.00081	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-16	0.005	n/a	9/10/2019	0.00037	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-17	0.005	n/a	9/10/2019	0.0012	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-1	0.005	n/a	9/10/2019	0.00065	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-10	0.0025	n/a	9/11/2019	0.0016	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-11	0.005	n/a	9/11/2019	0.00066	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-12	0.005	n/a	9/11/2019	0.00084	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-13	0.005	n/a	9/11/2019	0.00039	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-14	0.005	n/a	9/11/2019	0.00017ND	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-18	0.005	n/a	9/11/2019	0.00048	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-19	0.005	n/a	9/12/2019	0.0015	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-2	0.0025	n/a	9/10/2019	0.0022	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-20	0.005	n/a	9/12/2019	0.00097	No	19	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-3	0.005	n/a	9/10/2019	0.0016	No	17	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4	0.005	n/a	9/10/2019	0.00079	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5	0.00268	n/a	9/11/2019	0.0007	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-6	0.005	n/a	9/11/2019	0.00099	No	16	100	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-7	0.005	n/a	9/11/2019	0.00046	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-8A	0.0049	n/a	9/11/2019	0.0013	No	17	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-9	0.005	n/a	9/11/2019	0.00063	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Selenium, Total (ug/L)	GWA-15	10	n/a	9/10/2019	0.75ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWA-16	10	n/a	9/10/2019	0.75ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWA-17	10	n/a	9/10/2019	0.75ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-1	10	n/a	9/10/2019	0.75ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-10	5	n/a	9/11/2019	0.75ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-11	5	n/a	3/27/2019	0.355ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-12	10	n/a	9/11/2019	0.75ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-13	10	n/a	9/11/2019	0.75ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-14	10	n/a	9/11/2019	0.75ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-18	10	n/a	9/11/2019	0.75ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-19	10	n/a	9/12/2019	0.75ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-2	5	n/a	9/10/2019	0.75ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-20	10	n/a	9/12/2019	0.75ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-3	10	n/a	9/10/2019	0.75ND	No	25	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-4	10	n/a	9/10/2019	0.75ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-5	58.7	n/a	9/11/2019	7.9	No	25	48	n/a	n/a	0.002832	NP Intra (normality) ...
Selenium, Total (ug/L)	GWC-6	10	n/a	9/11/2019	0.75ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-7	5	n/a	9/11/2019	0.75ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-8A	5	n/a	9/11/2019	0.75ND	No	23	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (ug/L)	GWC-9	10	n/a	9/11/2019	0.75ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWA-15	5	n/a	9/10/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWA-16	5	n/a	9/10/2019	0.21	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWA-17	5	n/a	9/10/2019	0.23	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-1	5	n/a	9/10/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-10	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-11	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-12	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-13	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-14	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-18	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-19	5	n/a	9/12/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-2	5	n/a	9/10/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-20	5	n/a	9/12/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-3	5	n/a	9/10/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-4	5	n/a	9/10/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-5	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-6	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-7	5	n/a	9/11/2019	0.075ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-8A	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Thallium, Total (ug/L)	GWC-9	5	n/a	9/11/2019	0.075ND	No	25	100	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-15	0.005	n/a	9/10/2019	0.0022	No	20	85	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-16	0.01332	n/a	9/10/2019	0.01	No	20	5	None	ln(x)	0.000...	Param Intra 1 of 2
<b>Vanadium (mg/L)</b>	<b>GWA-17</b>	<b>0.008211</b>	<b>n/a</b>	<b>9/10/2019</b>	<b>0.0091</b>	<b>Yes</b>	<b>20</b>	<b>20</b>	<b>Kapla...</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Vanadium (mg/L)	GWC-1	0.02517	n/a	9/10/2019	0.02	No	20	0	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-10	0.0176	n/a	9/11/2019	0.017	No	20	0	None	No	0.000...	Param Intra 1 of 2
<b>Vanadium (mg/L)</b>	<b>GWC-11</b>	<b>0.01474</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.015</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
<b>Vanadium (mg/L)</b>	<b>GWC-12</b>	<b>0.005</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0052</b>	<b>Yes</b>	<b>20</b>	<b>90</b>	<b>n/a</b>	<b>n/a</b>	<b>0.004291</b>	<b>NP Intra (NDs) 1 of 2</b>
<b>Vanadium (mg/L)</b>	<b>GWC-13</b>	<b>0.005</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0062</b>	<b>Yes</b>	<b>20</b>	<b>85</b>	<b>n/a</b>	<b>n/a</b>	<b>0.004291</b>	<b>NP Intra (NDs) 1 of 2</b>
<b>Vanadium (mg/L)</b>	<b>GWC-14</b>	<b>0.005</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.0062</b>	<b>Yes</b>	<b>20</b>	<b>90</b>	<b>n/a</b>	<b>n/a</b>	<b>0.004291</b>	<b>NP Intra (NDs) 1 of 2</b>
<b>Vanadium (mg/L)</b>	<b>GWC-18</b>	<b>0.009816</b>	<b>n/a</b>	<b>9/11/2019</b>	<b>0.011</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>None</b>	<b>ln(x)</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>

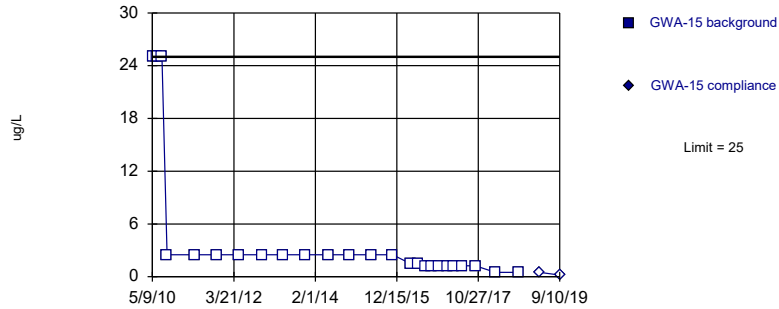
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 1/27/2020, 9:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium (mg/L)	GWC-19	0.01061	n/a	9/12/2019	0.0083	No	20	0	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-2	0.0208	n/a	9/10/2019	0.018	No	20	5	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-20	0.02551	n/a	9/12/2019	0.02	No	20	5	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-3	0.01143	n/a	9/10/2019	0.0078	No	19	5.263	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-4	0.01222	n/a	9/10/2019	0.0086	No	20	5	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-5	0.00748	n/a	9/11/2019	0.0047	No	20	30	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-6	0.0122	n/a	9/11/2019	0.012	No	17	5.882	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-7	0.015	n/a	9/11/2019	0.015	No	19	5.263	n/a	n/a	0.004832	NP Intra (normality) ...
Vanadium (mg/L)	GWC-8A	0.04704	n/a	9/11/2019	0.0042	No	17	5.882	None	No	0.000...	Param Intra 1 of 2
Vanadium (mg/L)	GWC-9	0.02634	n/a	9/11/2019	0.025	No	20	5	None	No	0.000...	Param Intra 1 of 2
Zinc (mg/L)	GWA-15	0.01	n/a	9/10/2019	0.006	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-16	0.01	n/a	9/10/2019	0.0047	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-17	0.01	n/a	9/10/2019	0.0084	No	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-1	0.01	n/a	9/10/2019	0.0038	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-10	0.01	n/a	9/11/2019	0.004	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-11	0.01	n/a	9/11/2019	0.0072	No	19	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-12	0.01	n/a	9/11/2019	0.0065	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-13	0.01	n/a	9/11/2019	0.0085	No	20	90	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-14	0.01	n/a	9/11/2019	0.0038	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-18	0.01	n/a	9/11/2019	0.0077	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-19	0.01	n/a	9/12/2019	0.0059	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-2	0.01	n/a	9/10/2019	0.004	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-20	0.01	n/a	9/12/2019	0.0065	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-3	0.01	n/a	9/10/2019	0.0069	No	17	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-4	0.01	n/a	9/10/2019	0.006	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5	0.01	n/a	9/11/2019	0.0074	No	19	78.95	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-6	0.01	n/a	9/11/2019	0.0062	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-7	0.01	n/a	9/11/2019	0.0074	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-8A	0.1999	n/a	9/11/2019	0.0052	No	17	29.41	Kapla...	ln(x)	0.000...	Param Intra 1 of 2
Zinc (mg/L)	GWC-9	0.01	n/a	9/11/2019	0.0037	No	20	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2

Within Limit

Prediction Limit  
Intrawell Non-parametric

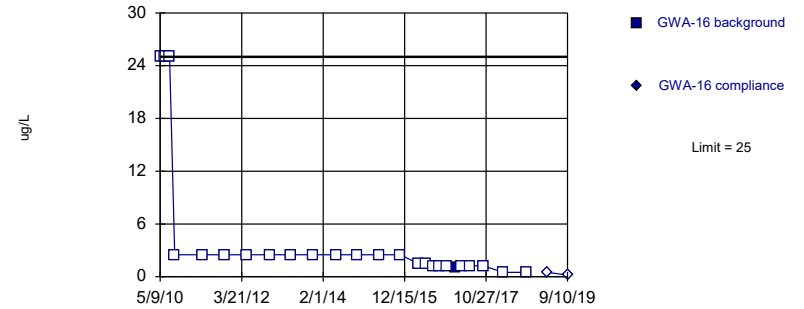


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

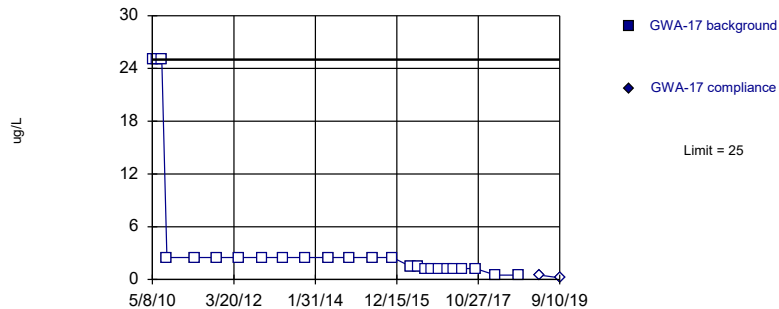


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

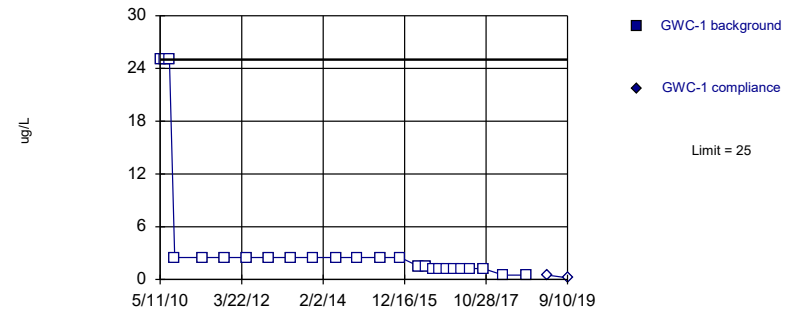


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

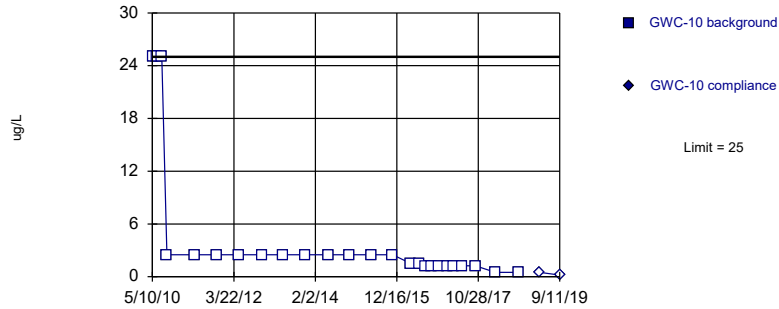


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

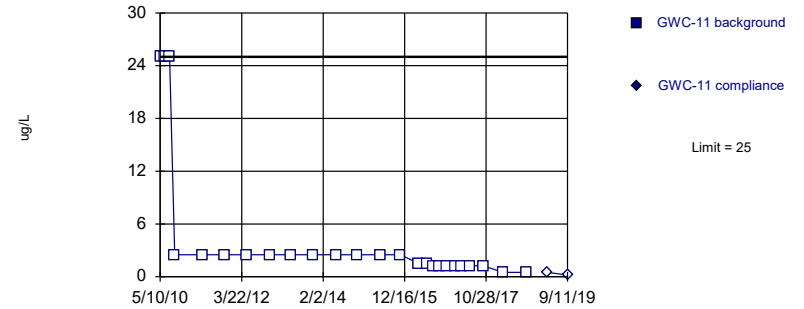


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

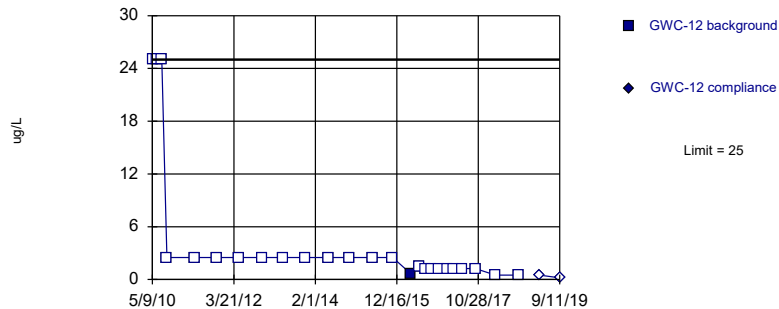


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

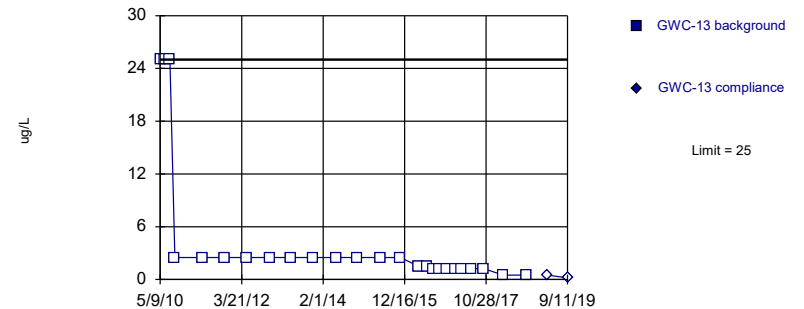


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

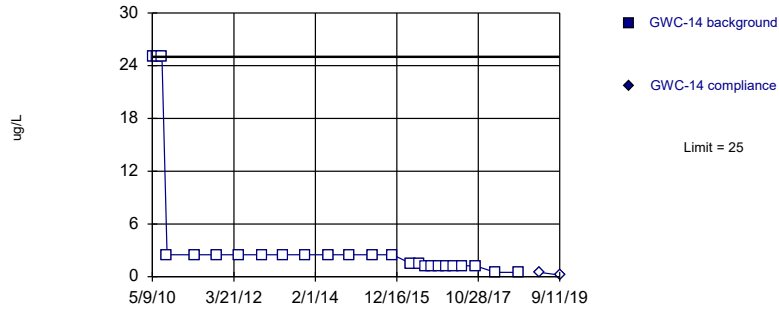


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

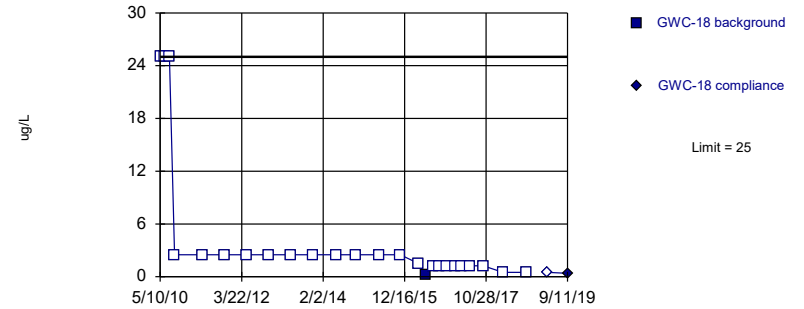


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

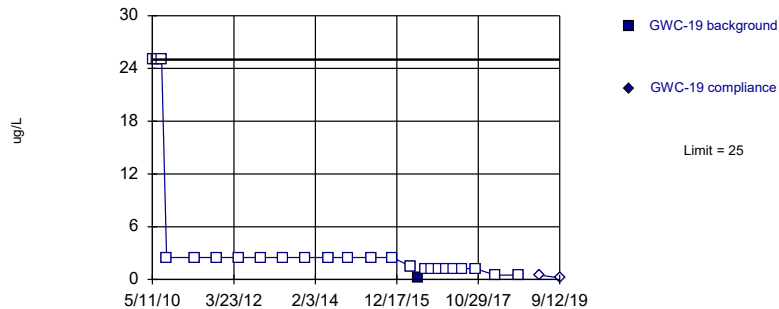


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

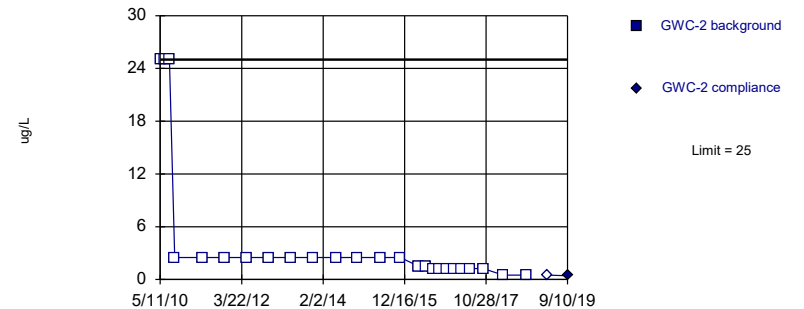


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

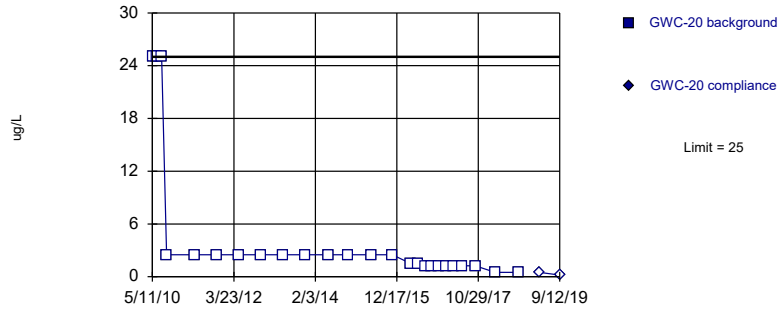


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

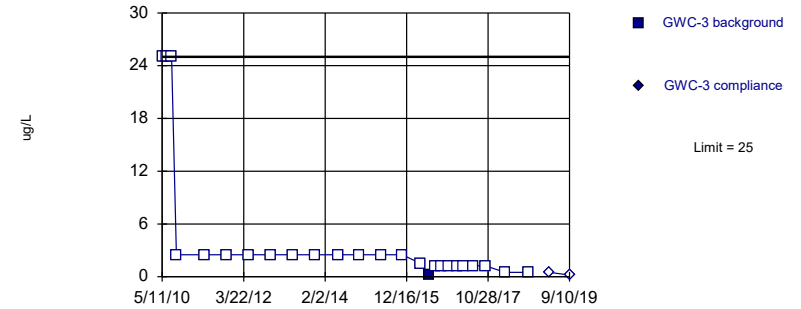


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

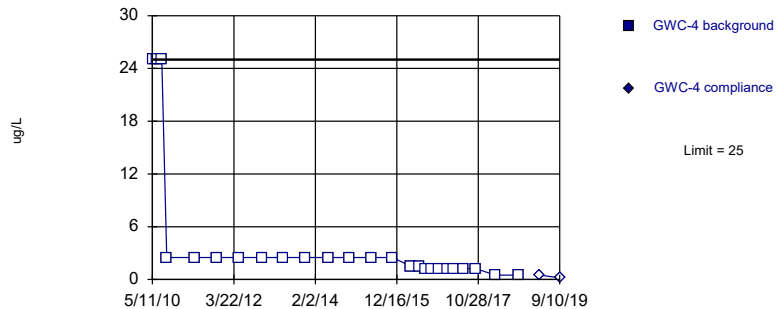


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric

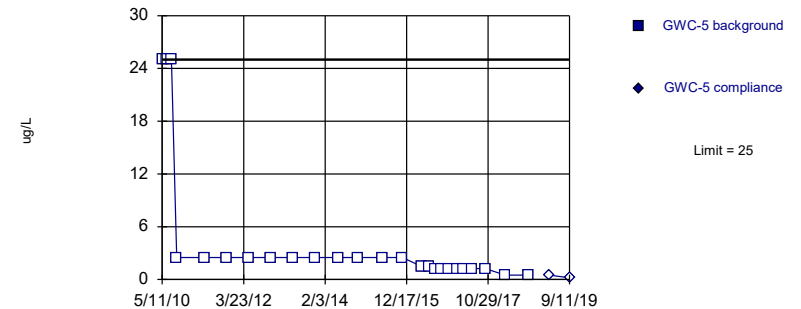


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
 Intrawell Non-parametric



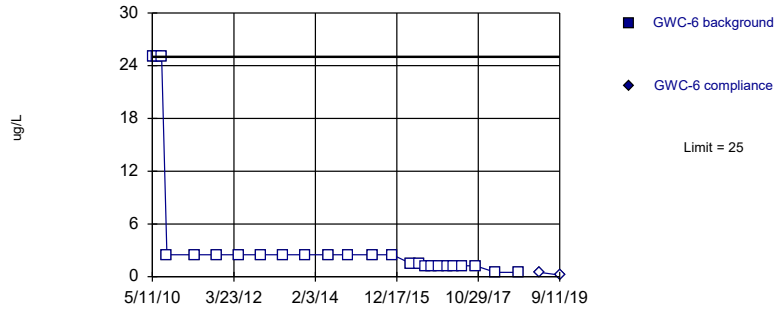
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

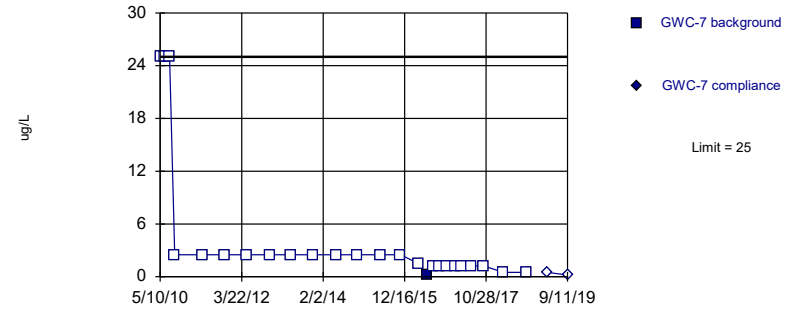


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
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Within Limit

Prediction Limit  
Intrawell Non-parametric

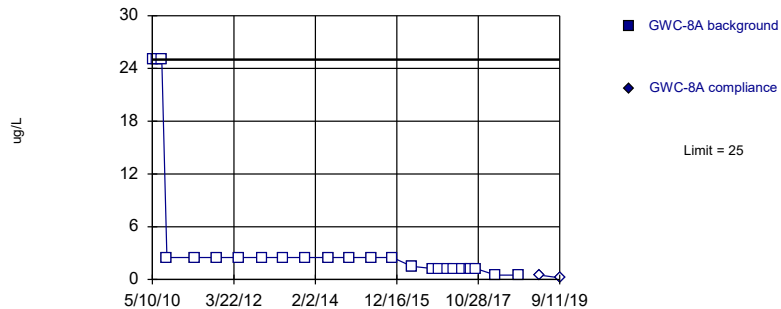


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
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Within Limit

Prediction Limit  
Intrawell Non-parametric

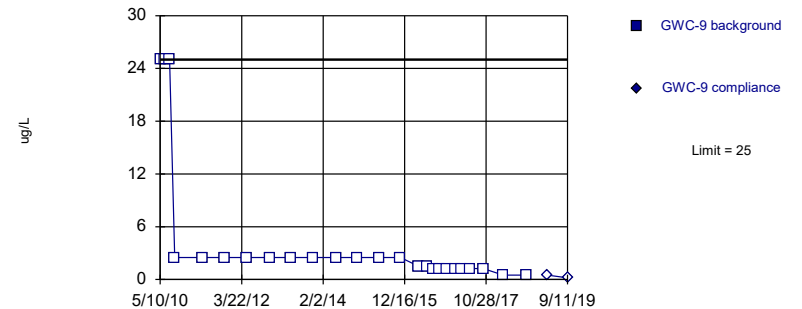


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
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Within Limit

Prediction Limit  
Intrawell Non-parametric

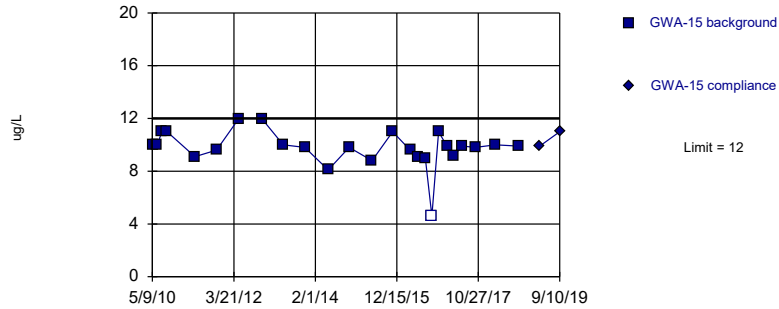


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

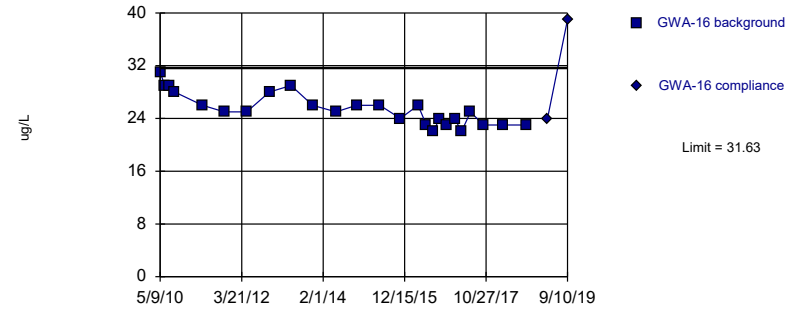


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

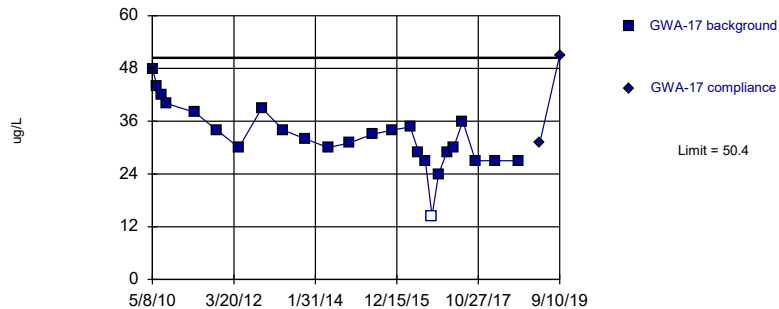


Background Data Summary: Mean=25.4, Std. Dev.=2.449, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9295, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

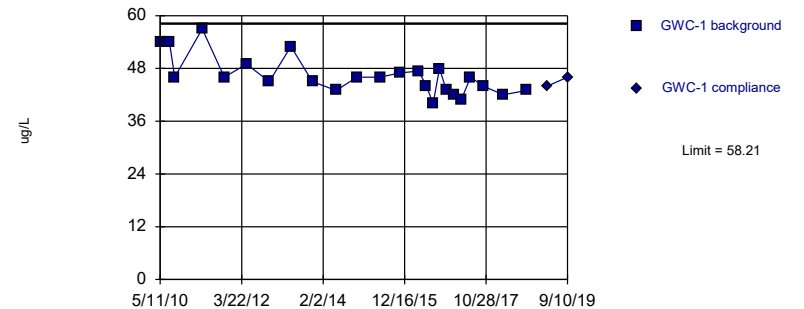


Background Data Summary: Mean=32.57, Std. Dev.=7.007, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

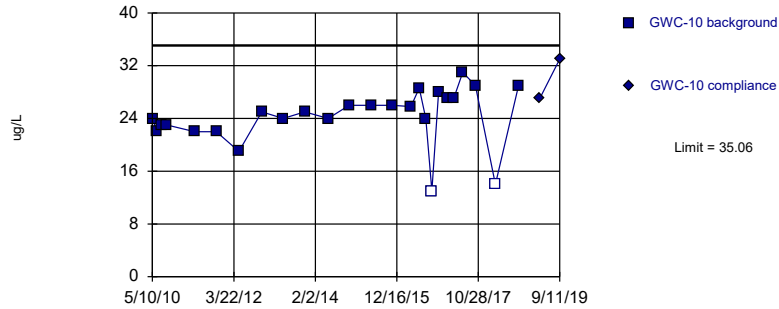


Background Data Summary: Mean=46.62, Std. Dev.=4.557, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.908, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

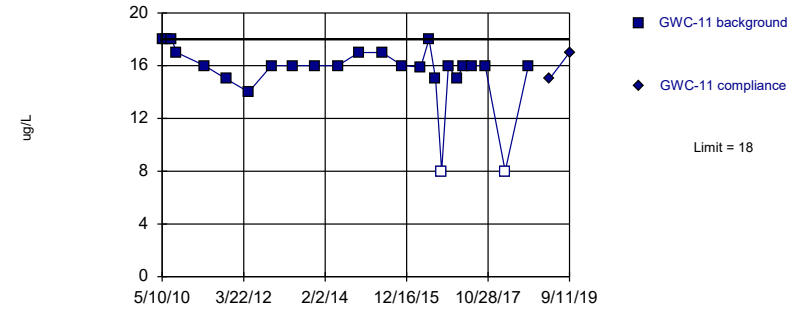


Background Data Summary: Mean=24.3, Std. Dev.=4.229, n=25, 8% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.899, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

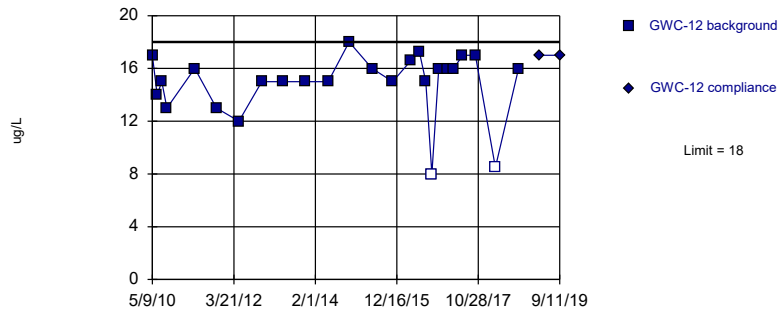


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 8% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

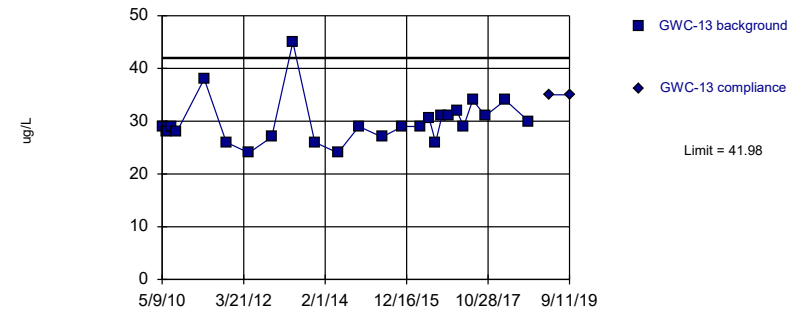


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 8% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

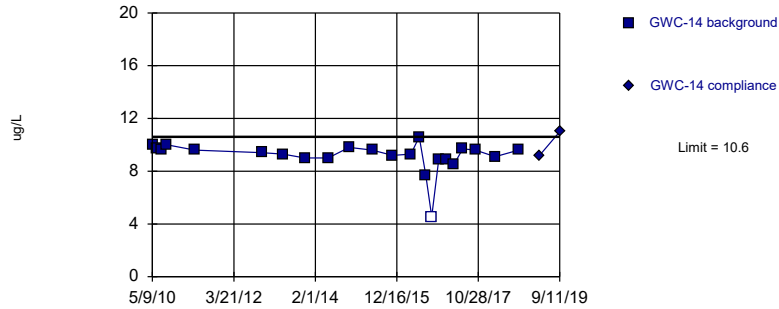


Background Data Summary (based on natural log transformation): Mean=3.387, Std. Dev.=0.1375, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9118, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

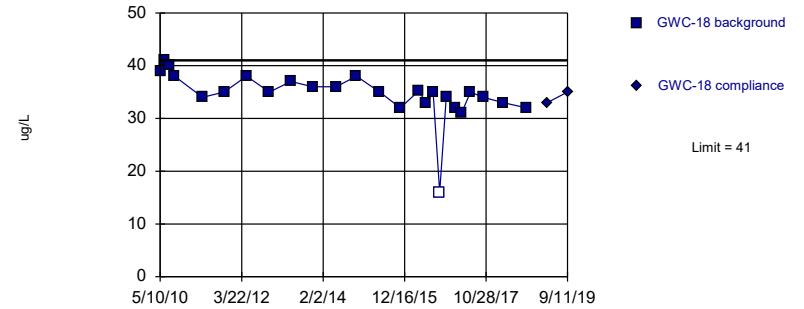


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. 4.348% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

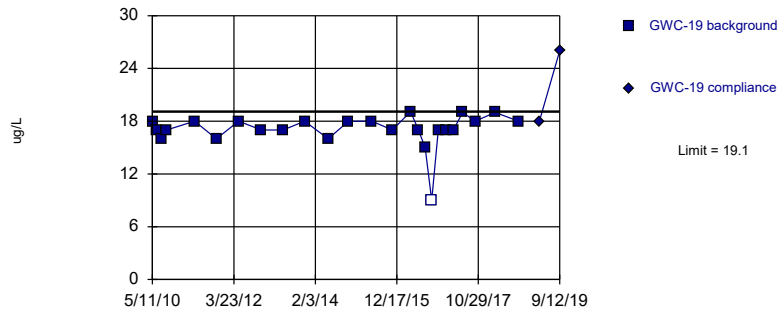


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

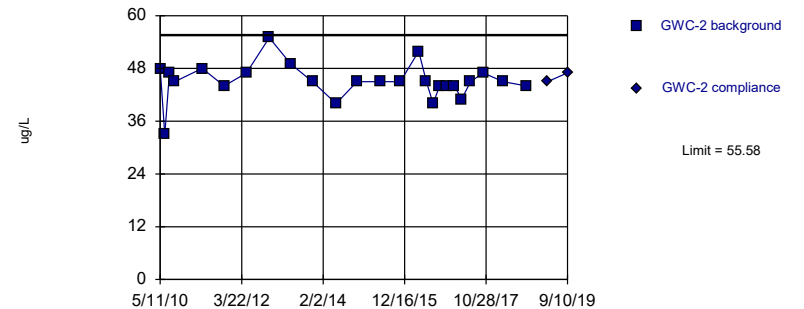


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

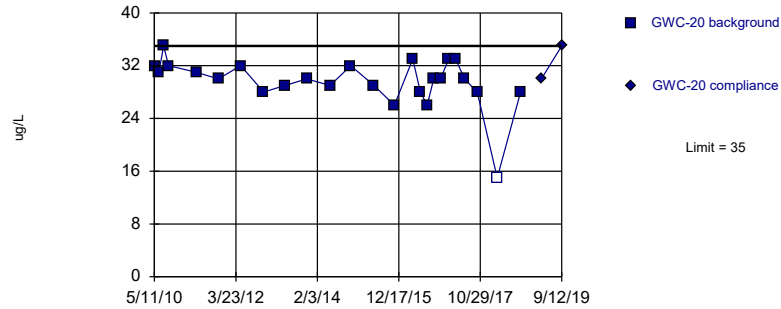


Background Data Summary: Mean=45.08, Std. Dev.=4.125, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

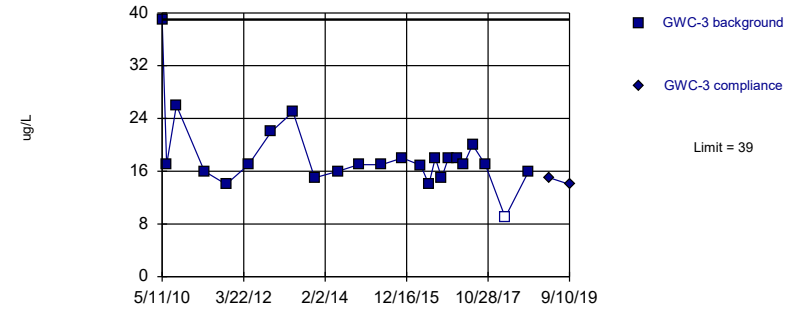


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

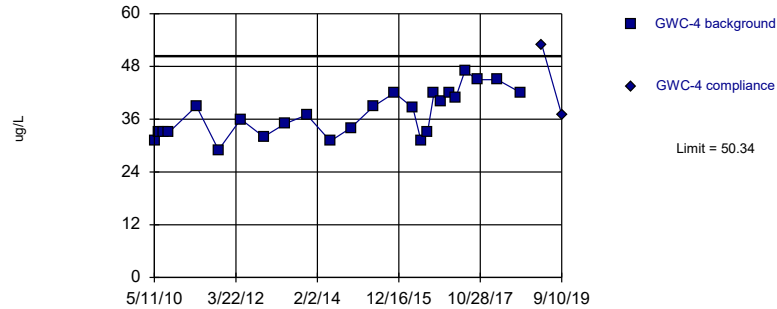


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 4.167% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

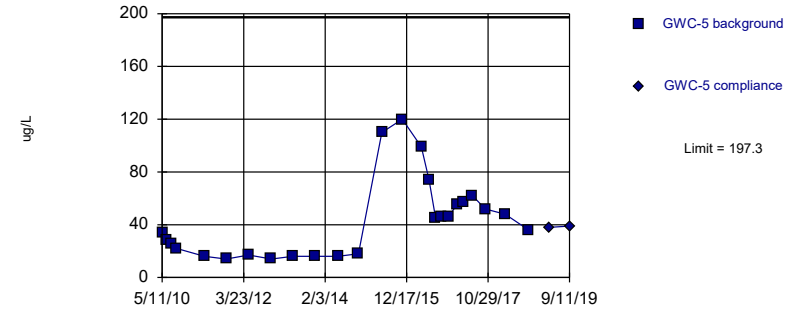


Background Data Summary: Mean=37.22, Std. Dev.=5.153, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9436, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

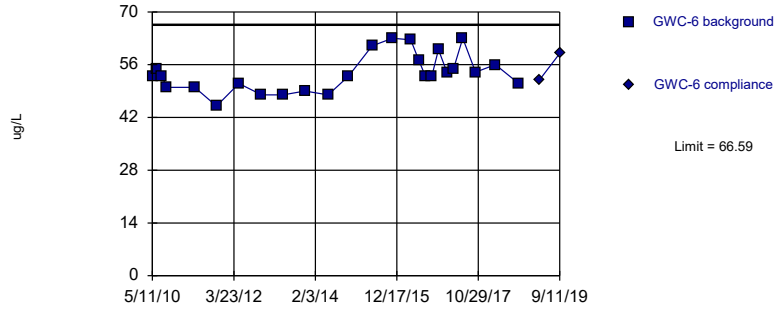
Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.549, Std. Dev.=0.6818, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9233, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:45 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

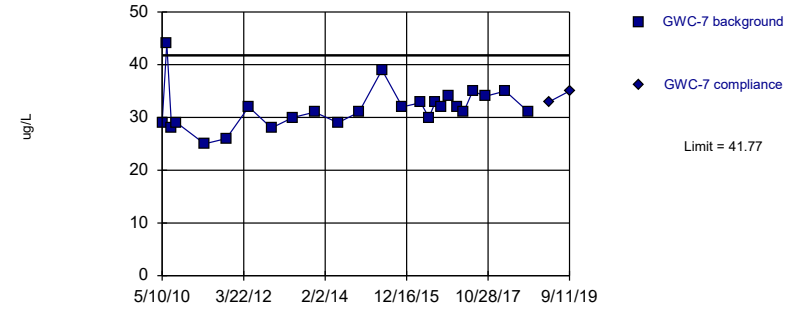
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=53.82, Std. Dev.=5.017, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.939, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

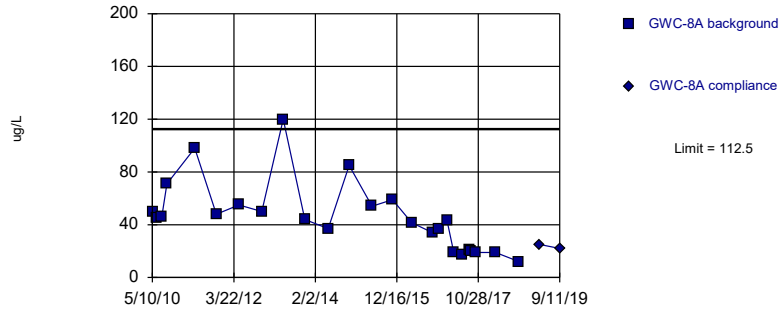
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=31.71, Std. Dev.=3.951, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9138, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

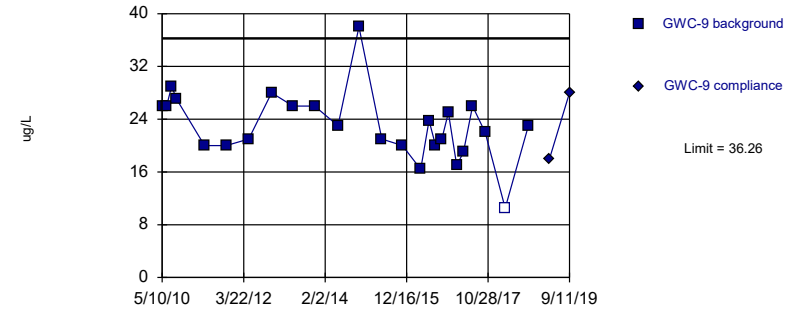
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=45.78, Std. Dev.=26.22, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8935, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric



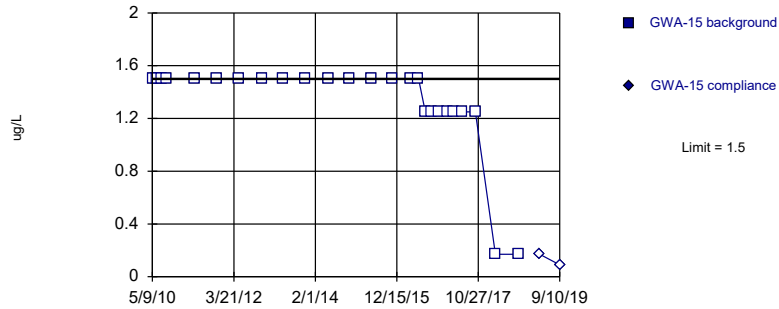
Background Data Summary: Mean=22.99, Std. Dev.=5.214, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Barium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



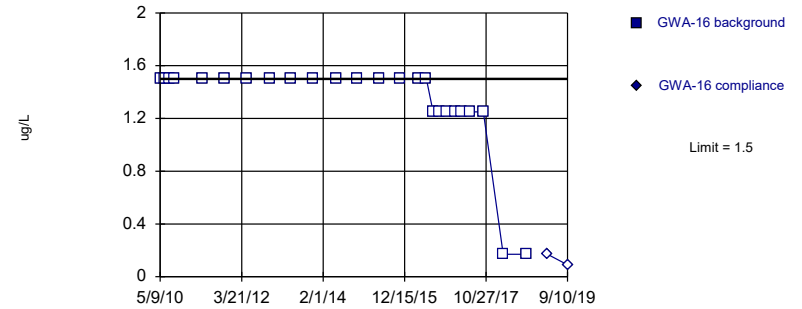
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



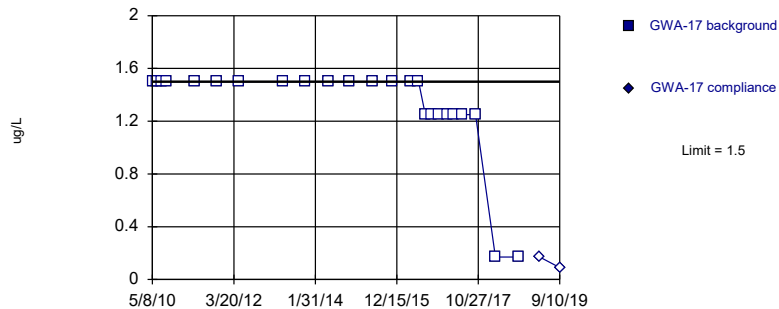
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



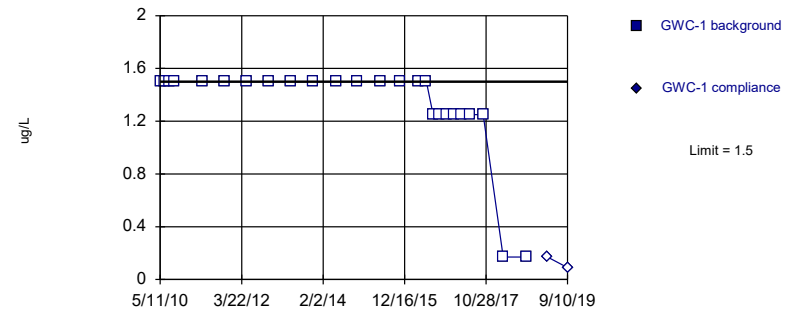
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



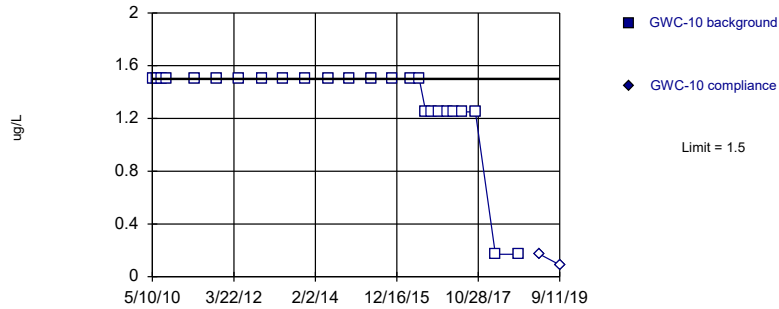
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



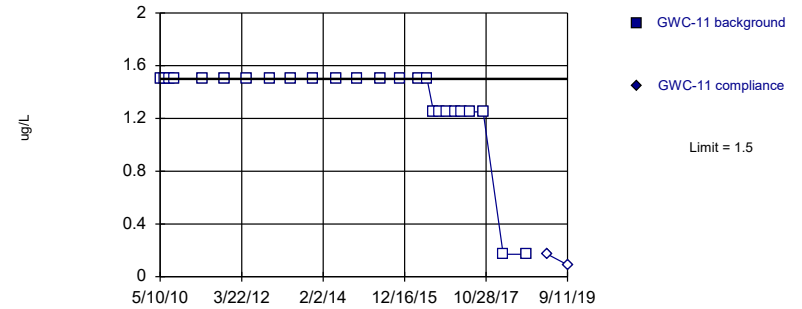
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



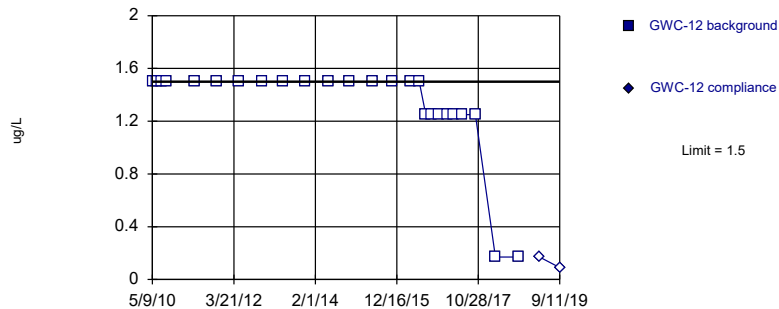
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
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Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



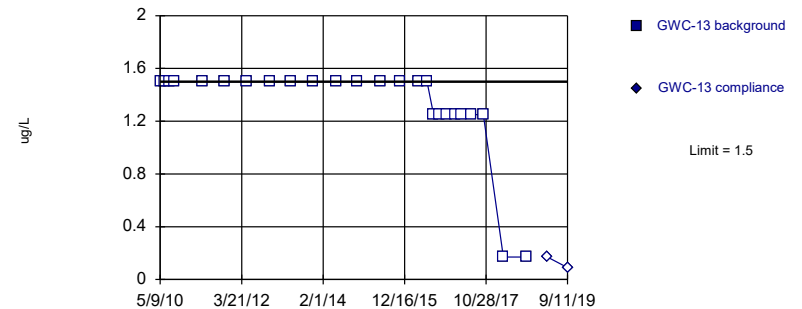
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
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Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
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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. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

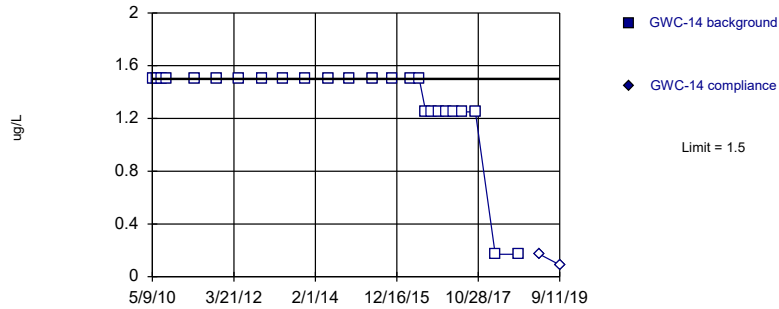
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Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



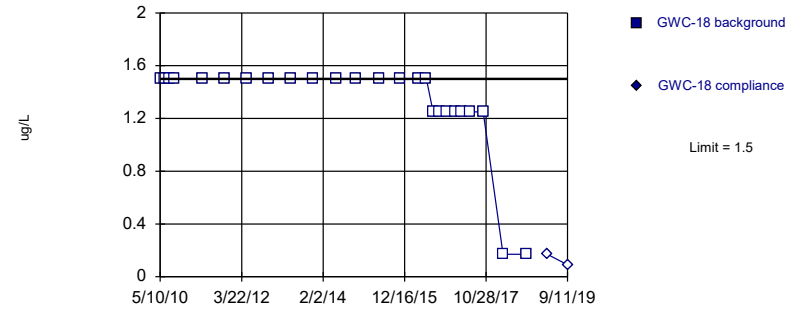
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



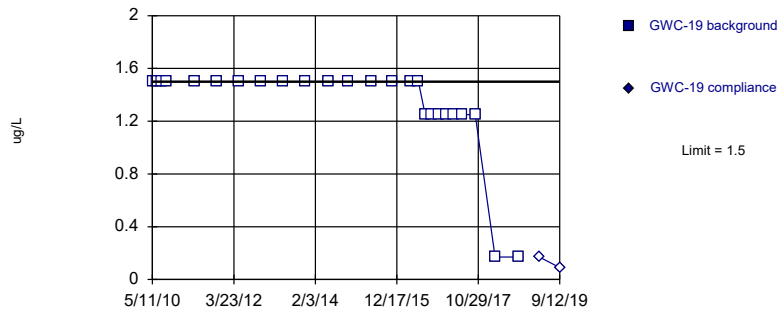
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



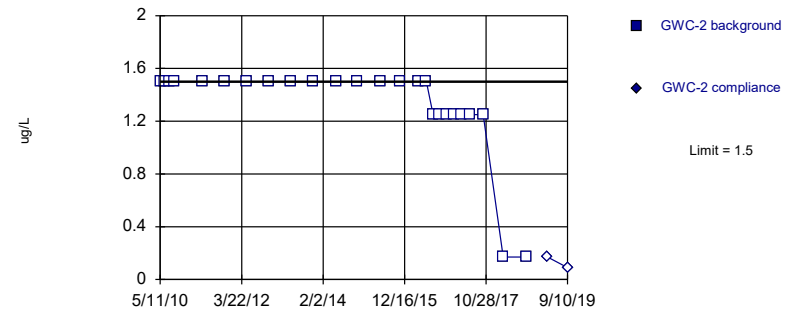
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Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
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Within Limit

Prediction Limit  
Intrawell Non-parametric



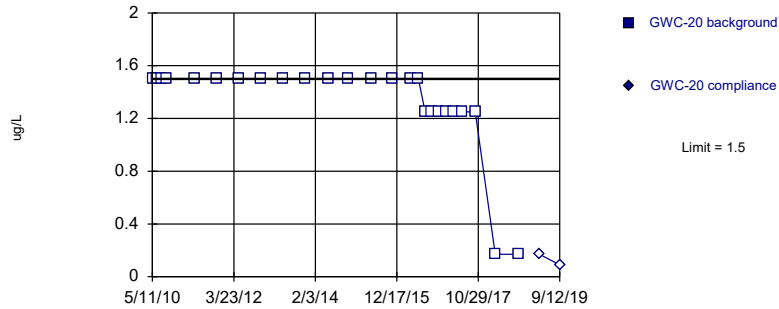
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



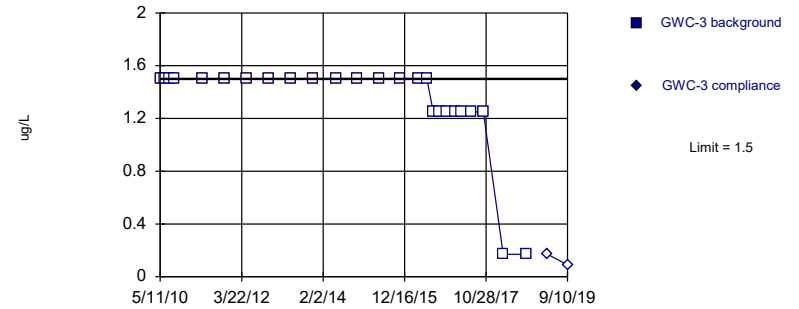
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



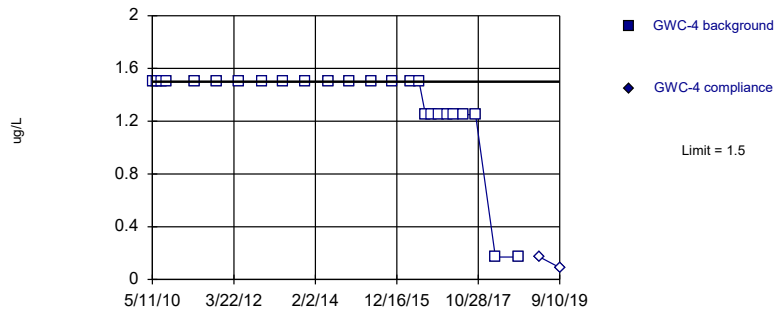
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



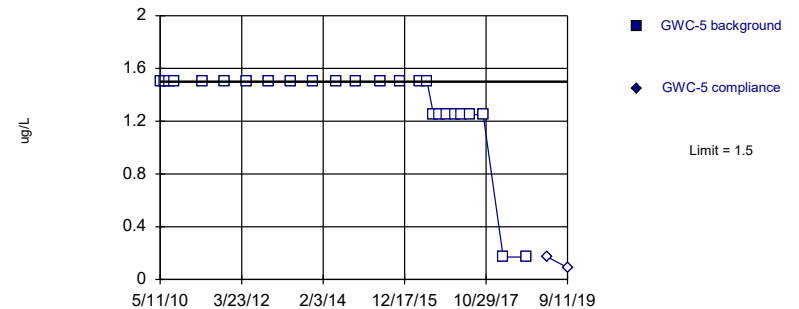
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Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

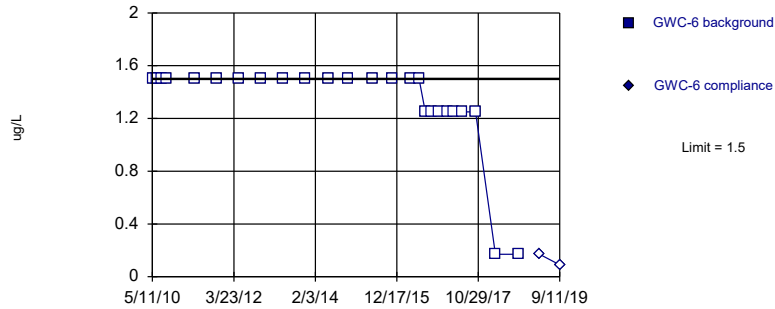


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

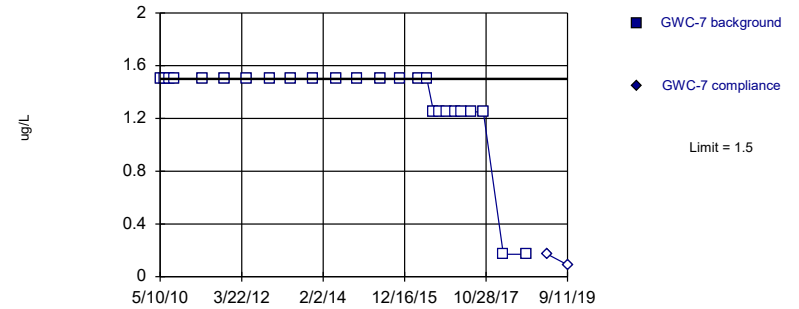


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

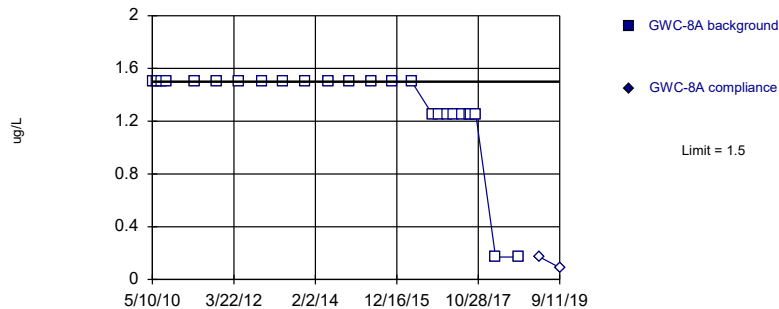


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

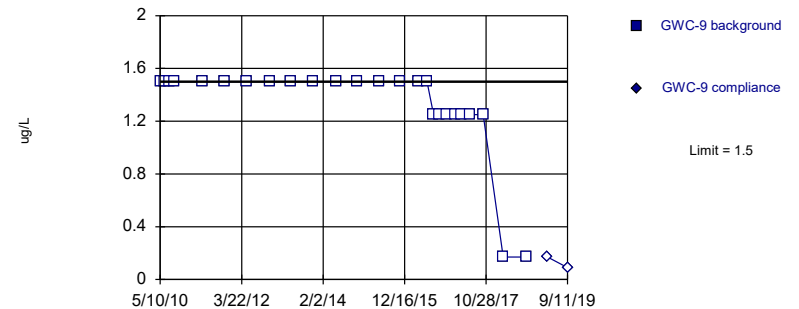


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

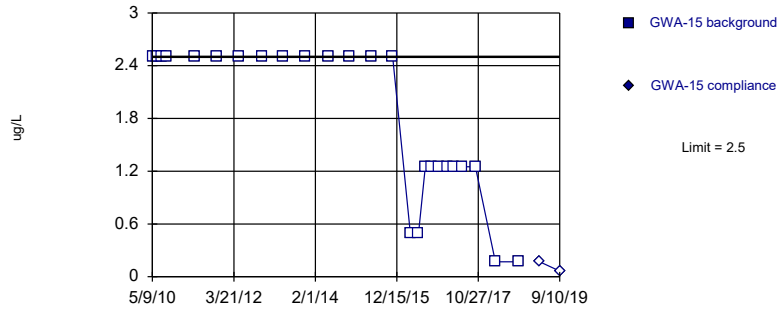


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

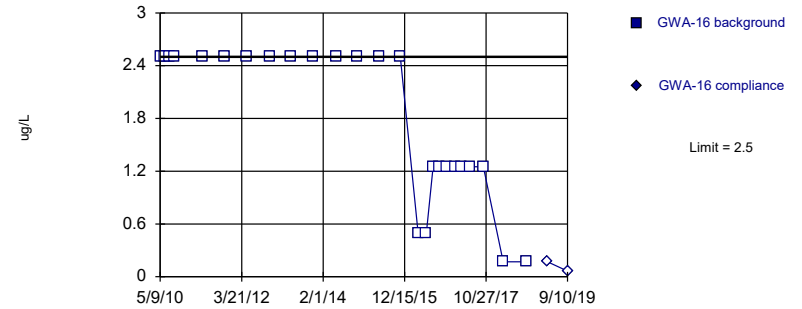


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

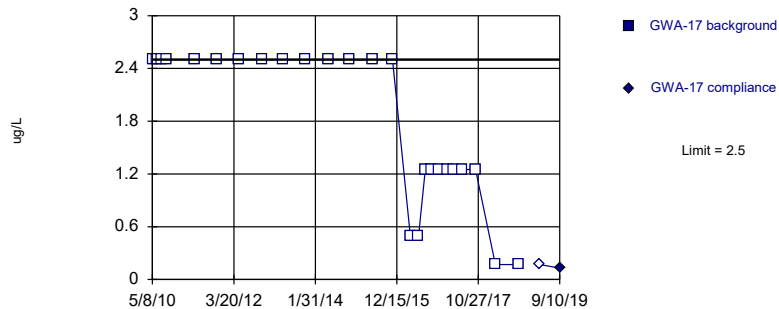


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

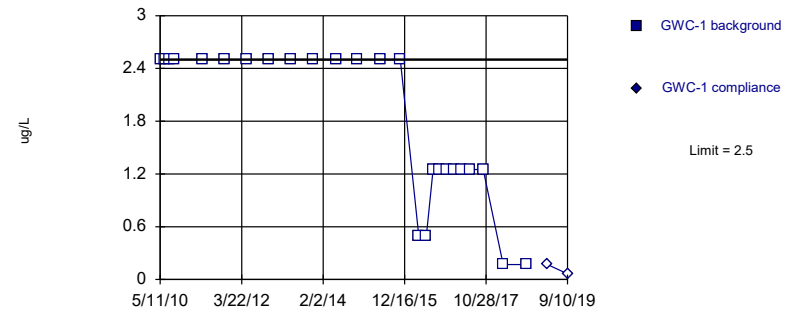


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



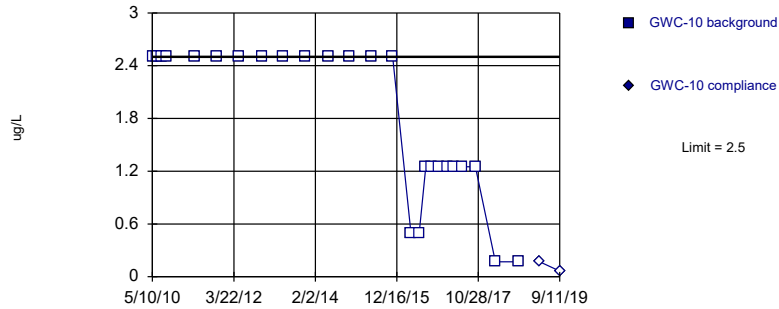
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



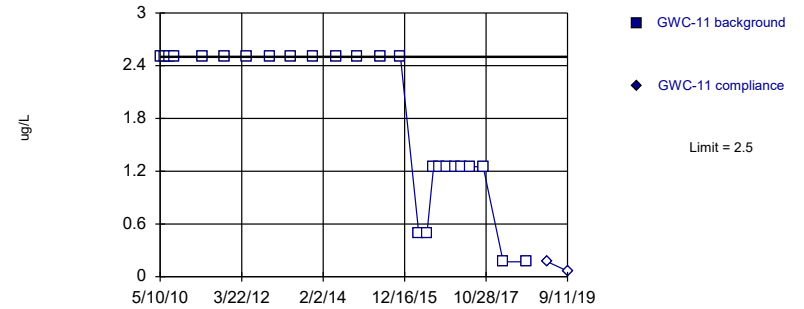
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
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Within Limit

Prediction Limit  
Intrawell Non-parametric



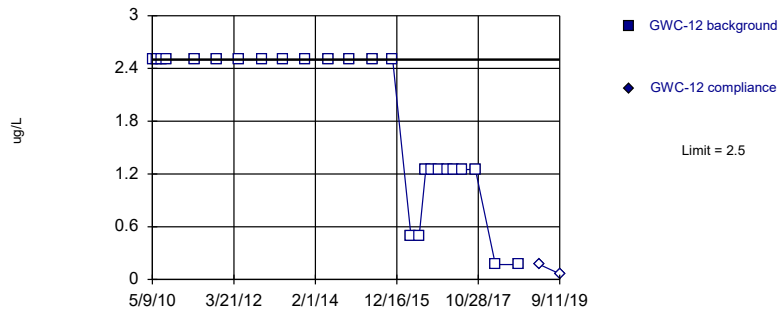
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Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



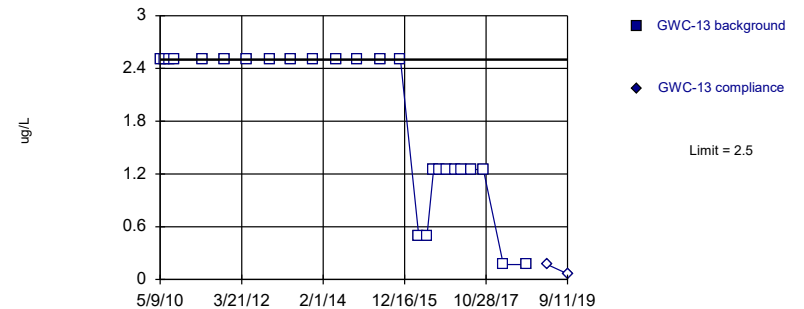
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



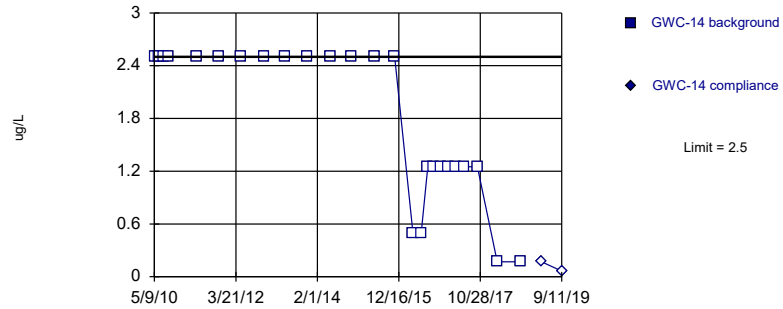
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



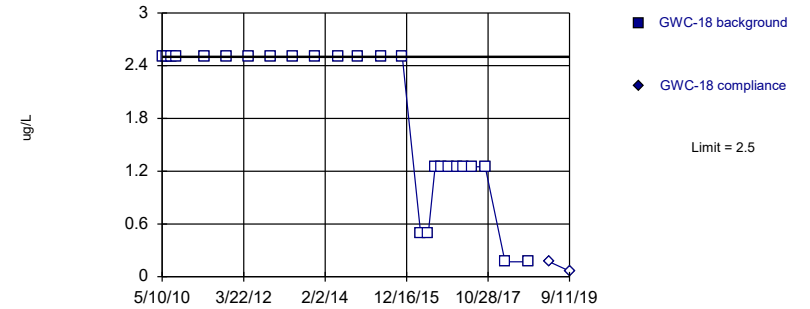
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



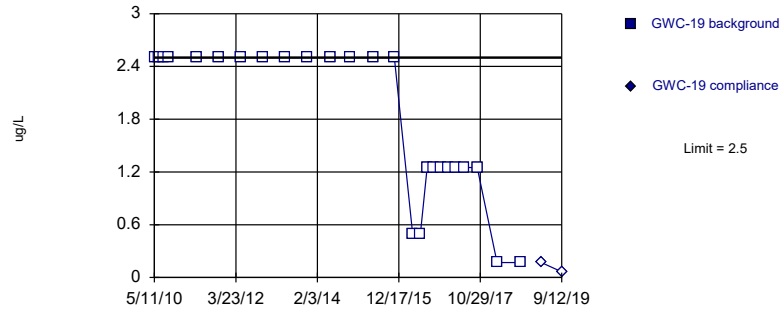
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



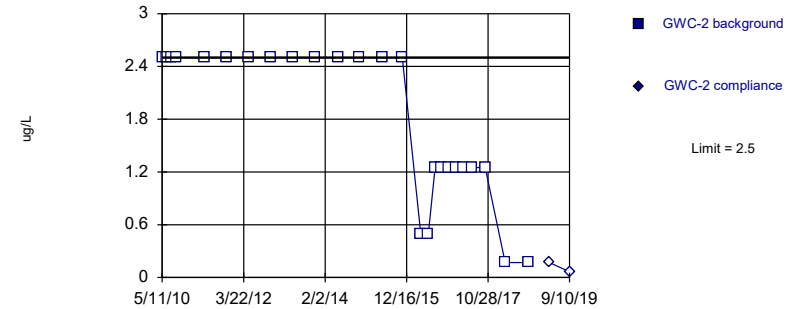
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



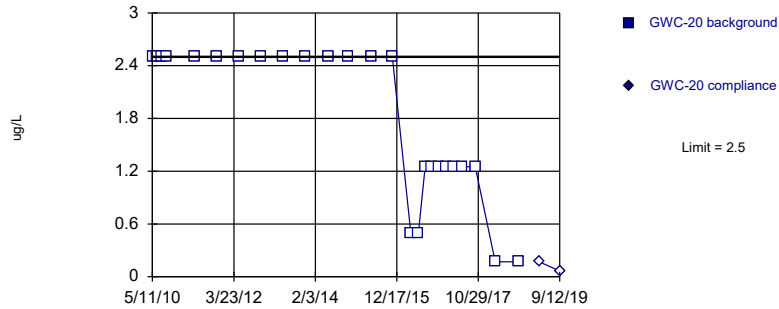
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



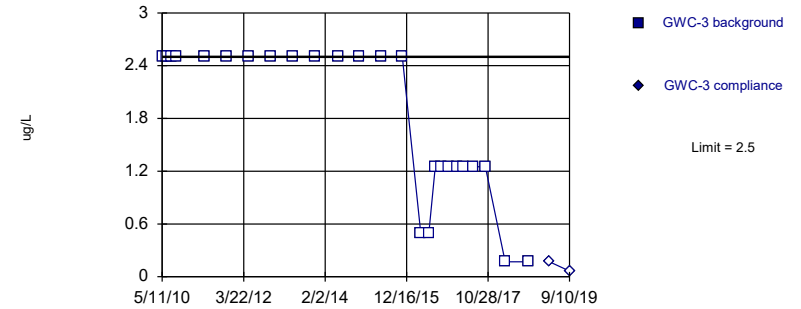
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



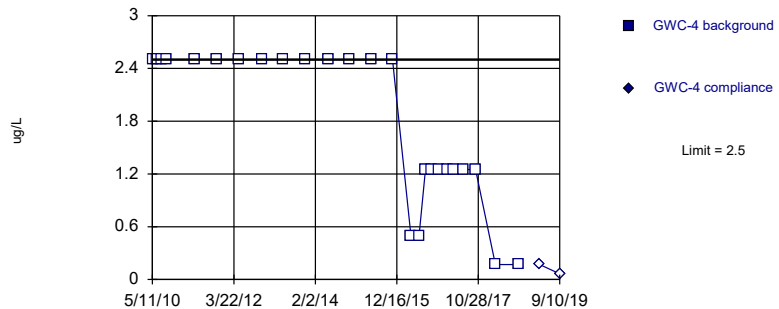
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



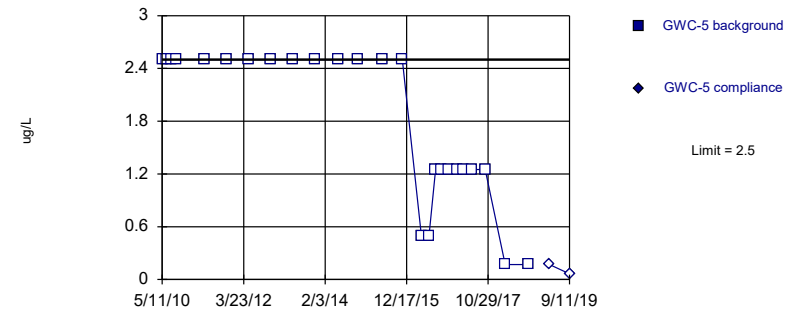
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



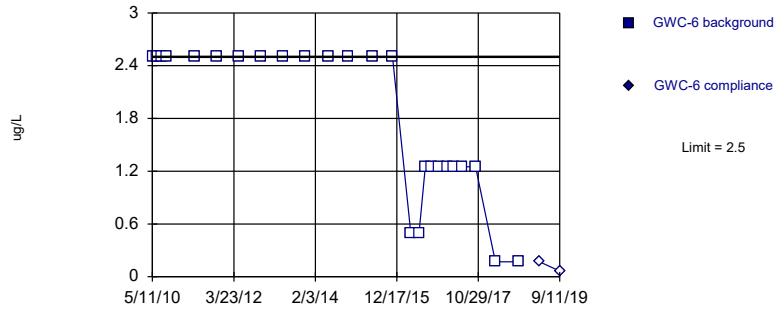
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



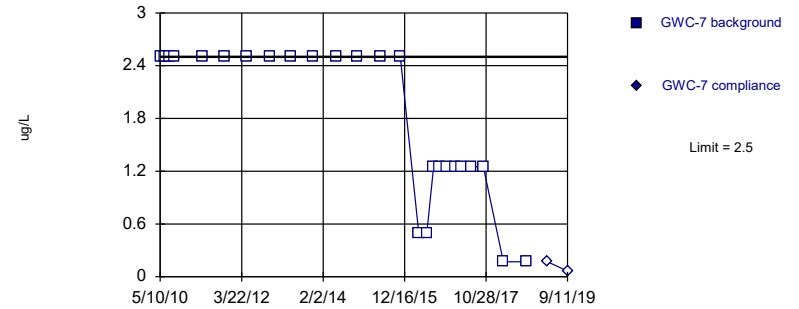
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



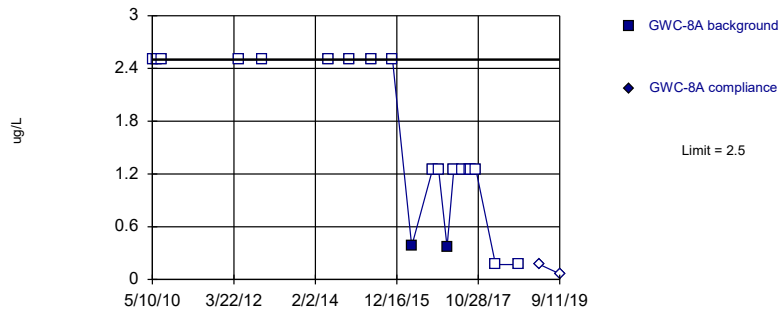
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



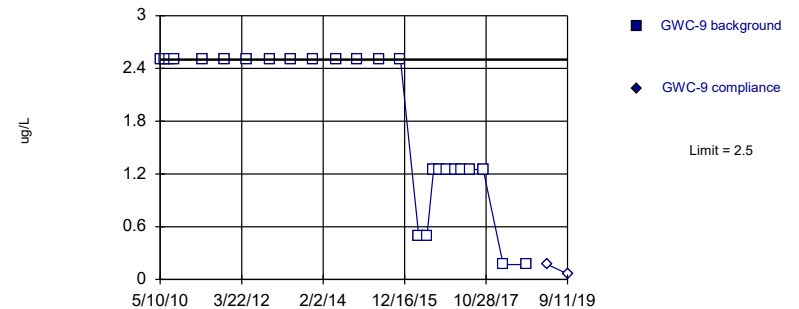
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



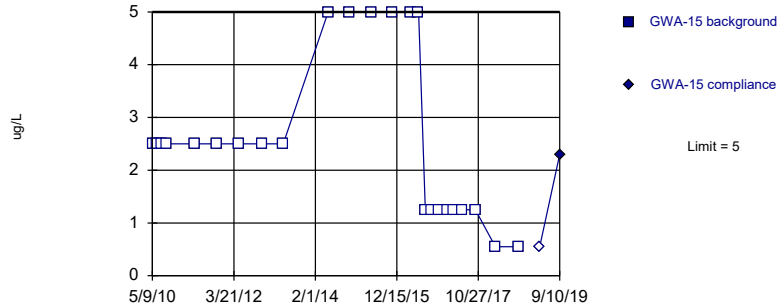
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 9:46 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

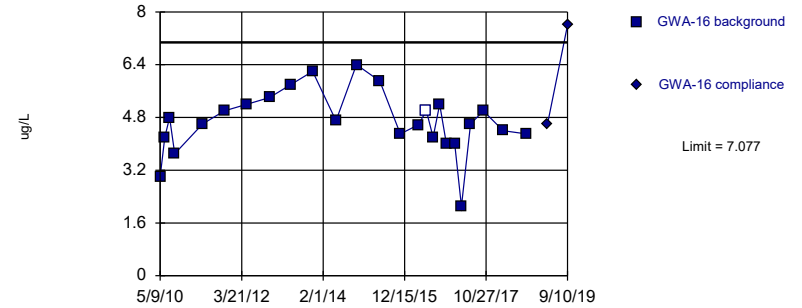


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

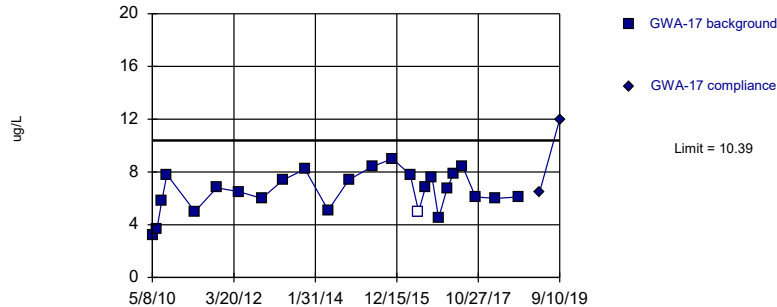


Background Data Summary: Mean=4.663, Std. Dev.=0.9487, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9616, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

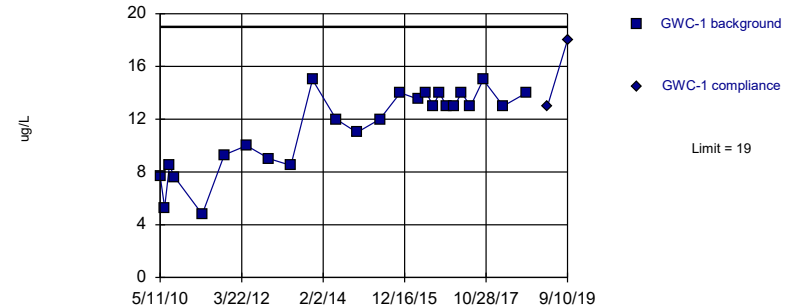


Background Data Summary: Mean=6.528, Std. Dev.=1.517, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9647, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

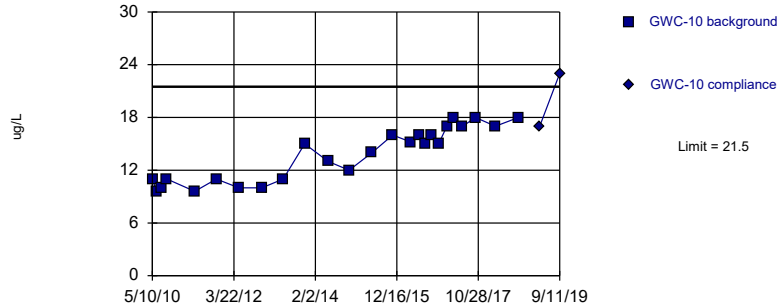


Background Data Summary: Mean=11.37, Std. Dev.=2.997, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8902, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

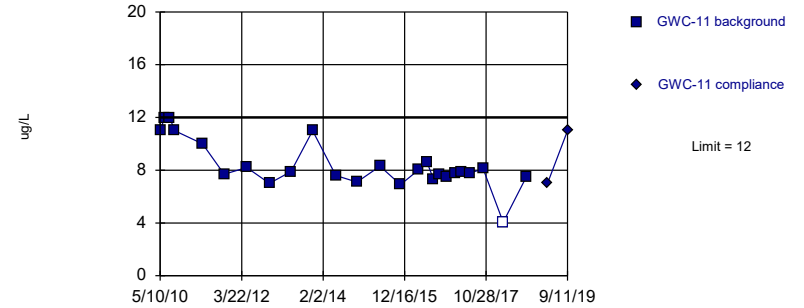


Background Data Summary: Mean=13.81, Std. Dev.=3.022, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8903, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



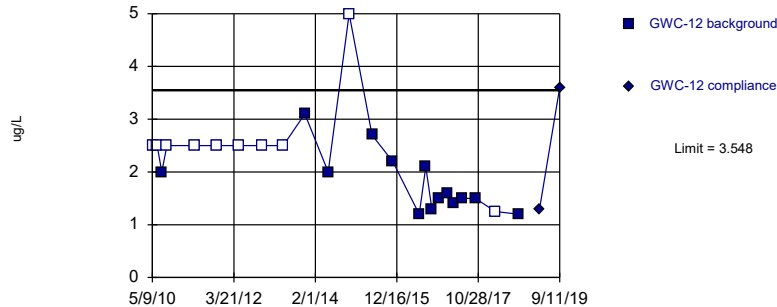
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric

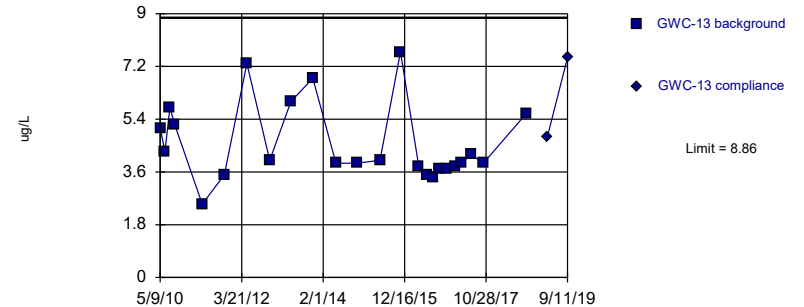


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.4908, Std. Dev.=0.302, n=24, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9131, critical = 0.884. Kappa = 2.568 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

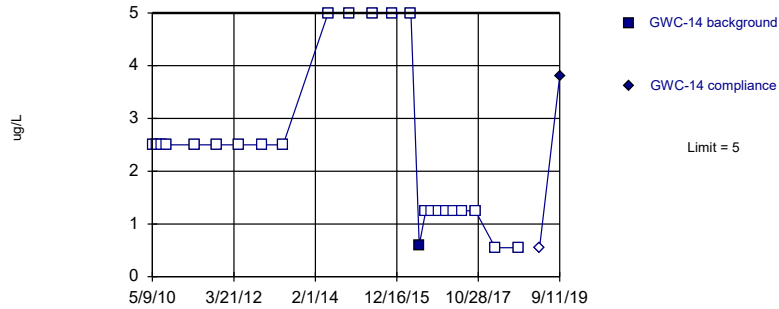


Background Data Summary (based on natural log transformation): Mean=1.481, Std. Dev.=0.2728, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9158, critical = 0.884. Kappa = 2.568 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

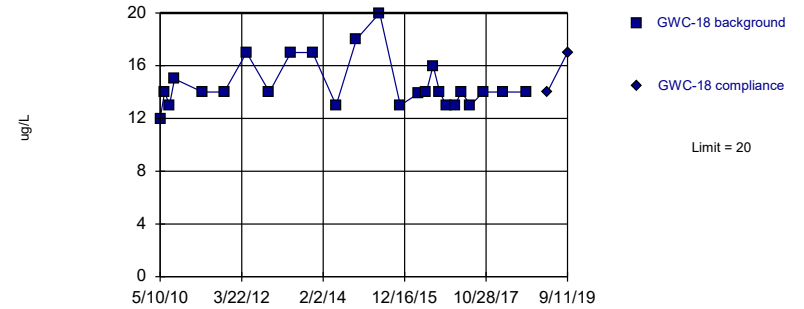


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

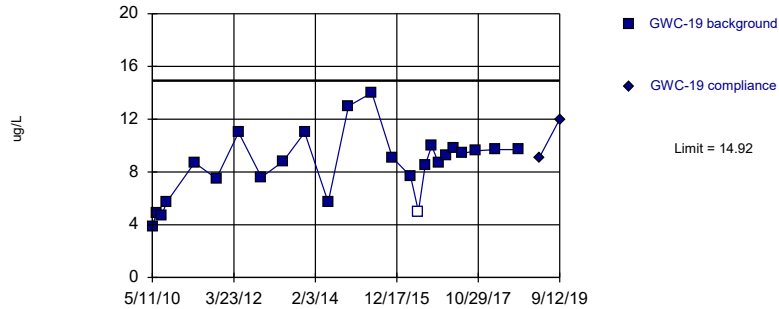


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

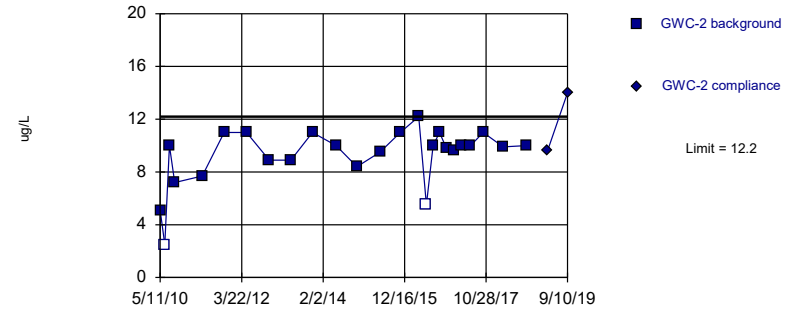


Background Data Summary: Mean=8.519, Std. Dev.=2.517, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9544, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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 25 background values. 8% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

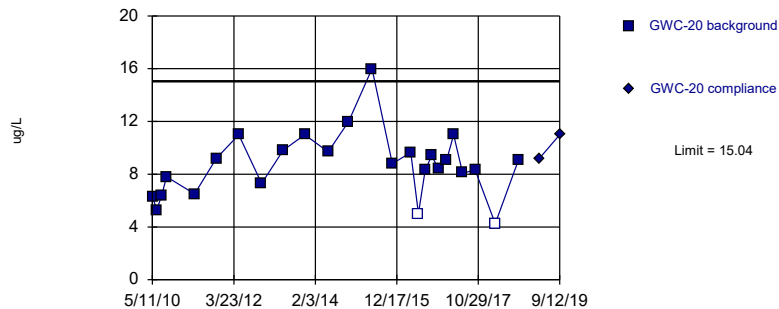
Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.708, Std. Dev.=2.489, n=25, 8% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9509, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

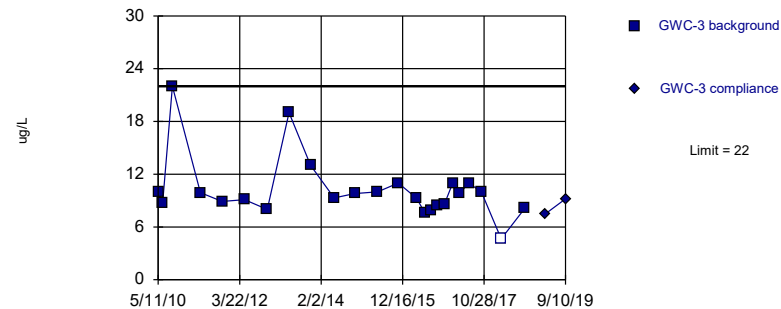
Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 4.167% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

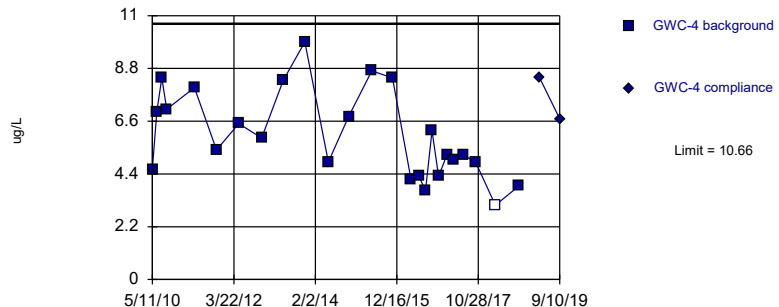
Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.996, Std. Dev.=1.833, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

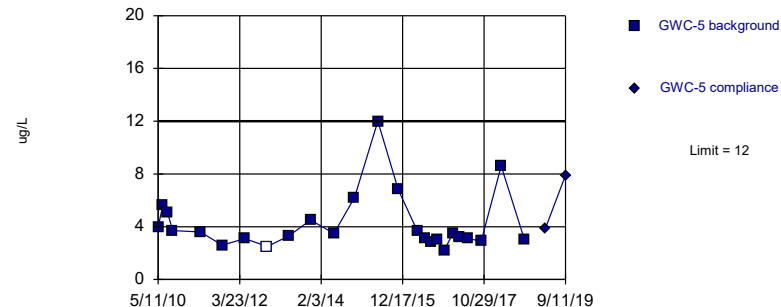
Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

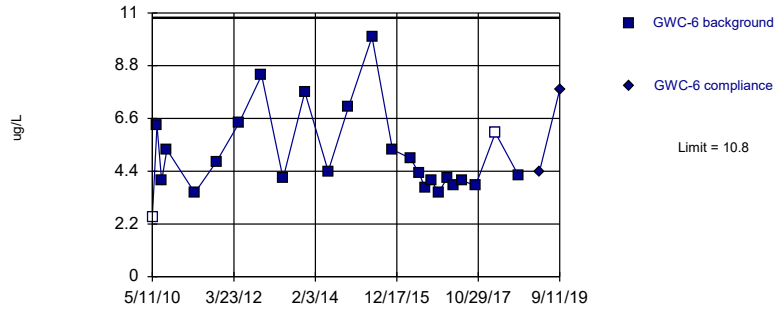
Intrawell Non-parametric



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. 4% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

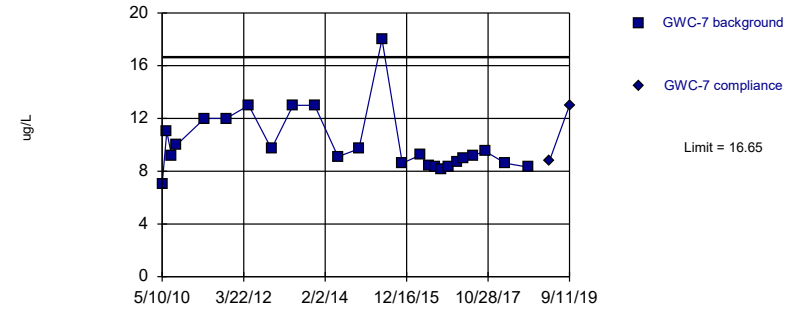
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.567, Std. Dev.=0.3191, n=25, 8% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9478, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

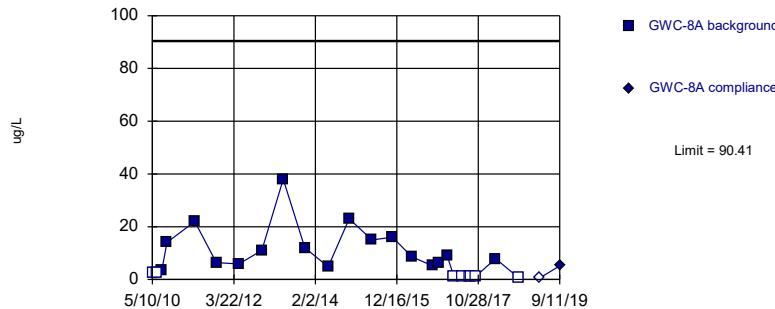
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.284, Std. Dev.=0.2076, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8921, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

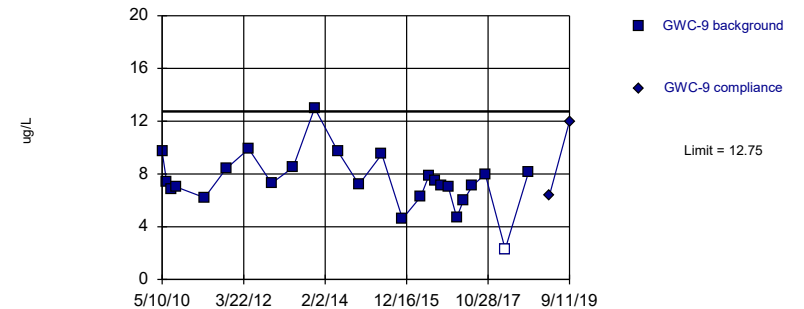
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=1.624, Std. Dev.=1.132, n=25, 32% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9564, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit  
Intrawell Parametric



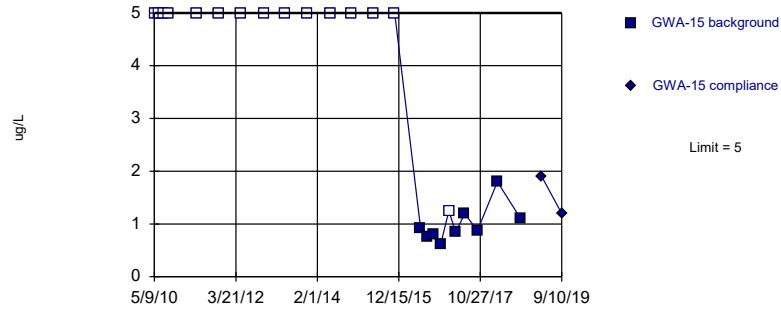
Background Data Summary: Mean=7.487, Std. Dev.=2.066, n=25, 4% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9509, critical = 0.888. Kappa = 2.545 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Chromium, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



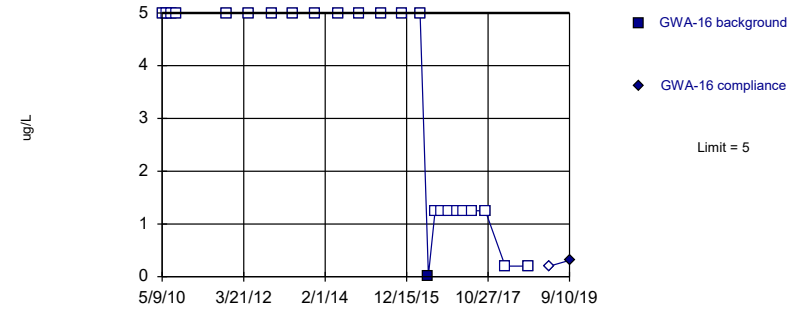
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



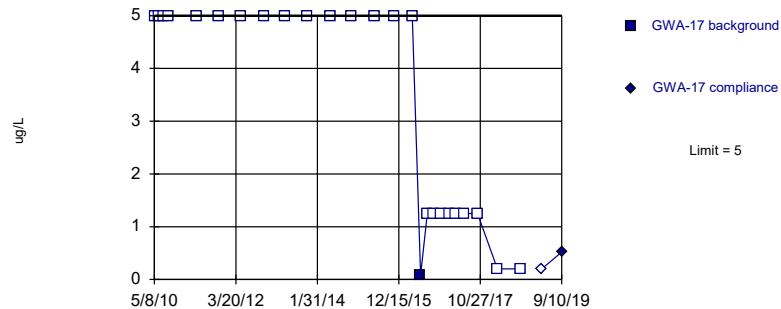
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



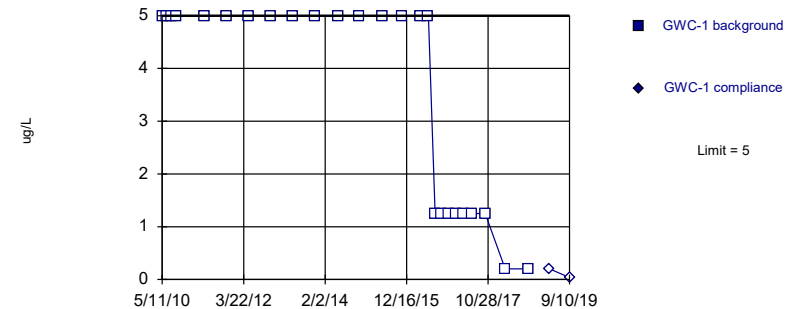
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



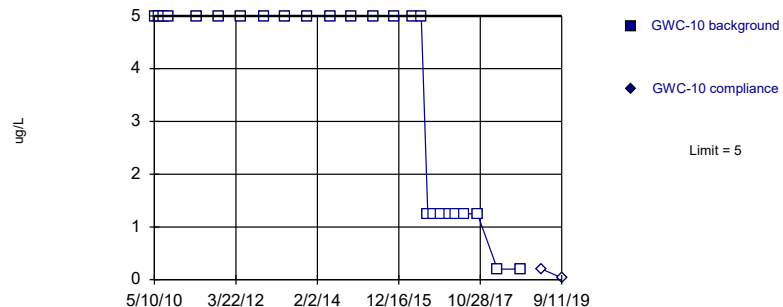
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



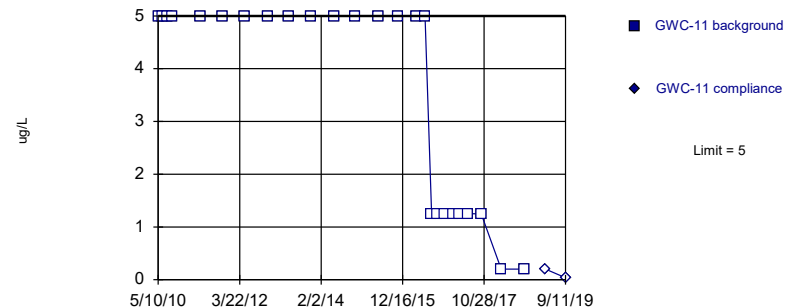
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



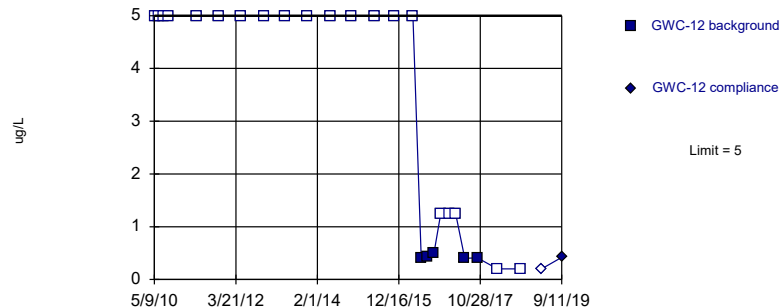
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



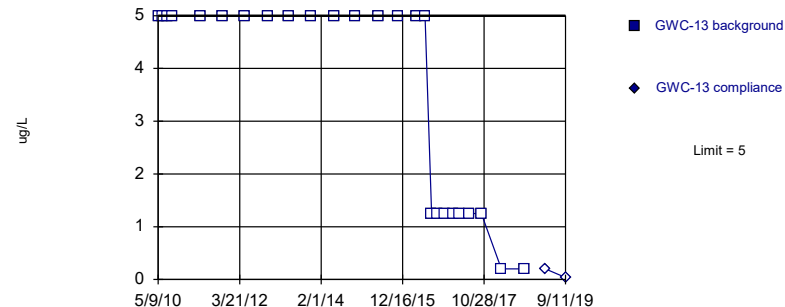
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



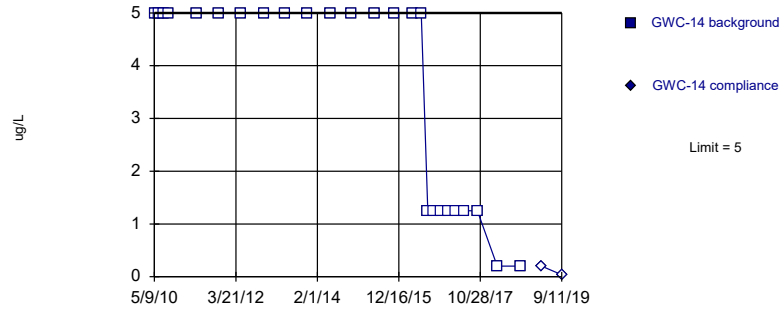
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



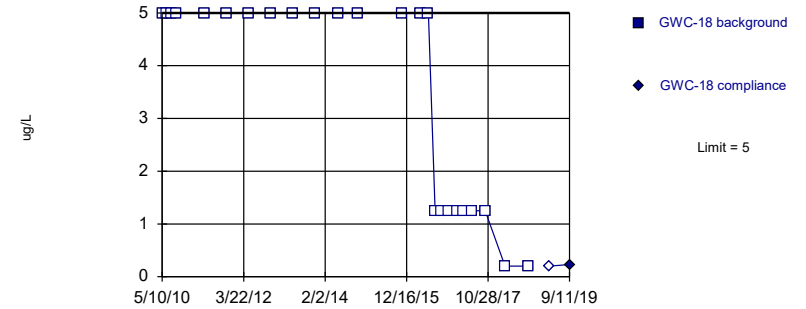
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



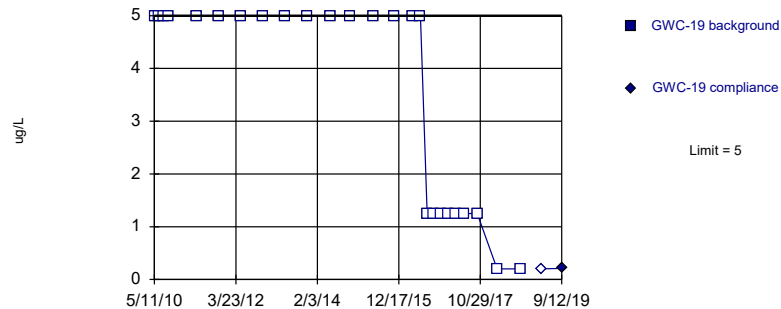
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



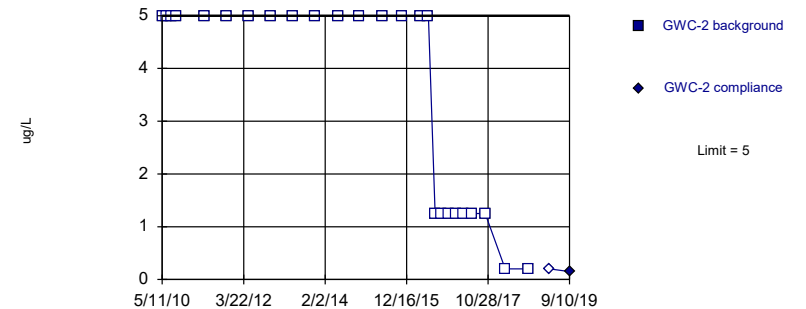
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

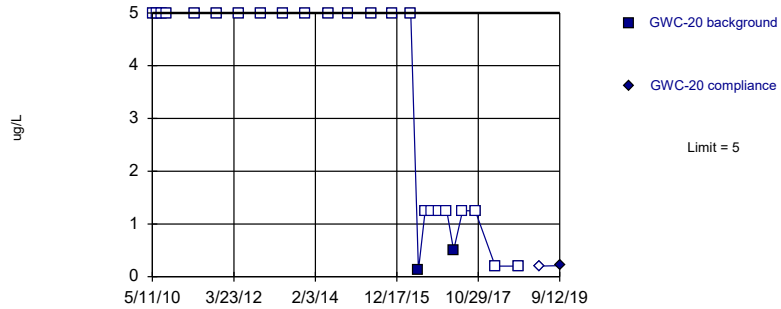
Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



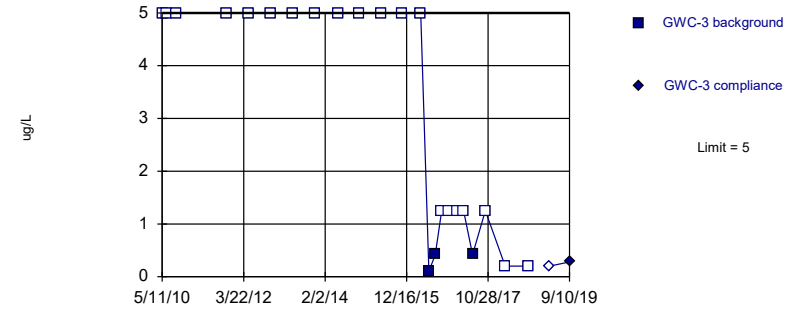
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



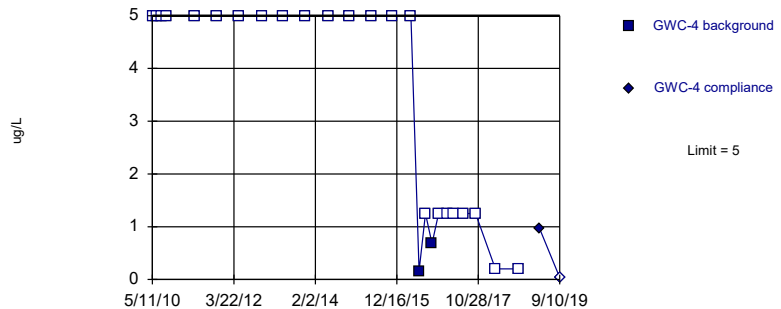
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



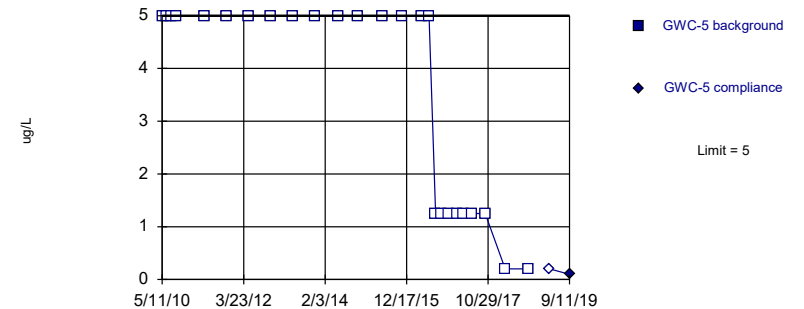
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



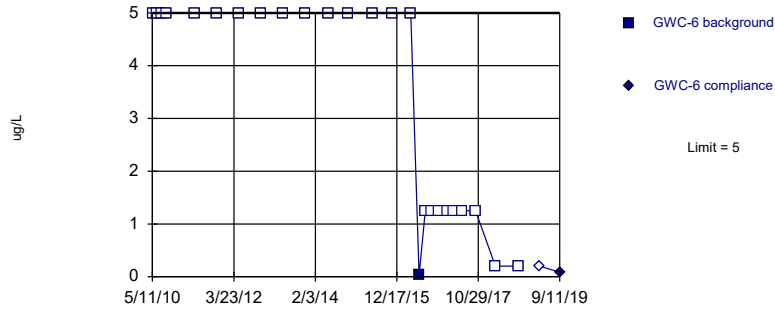
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



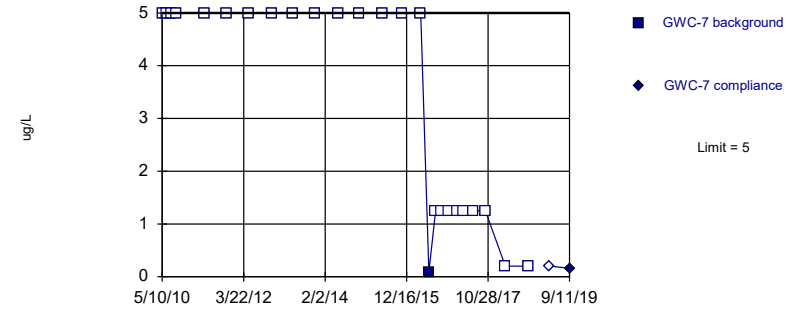
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



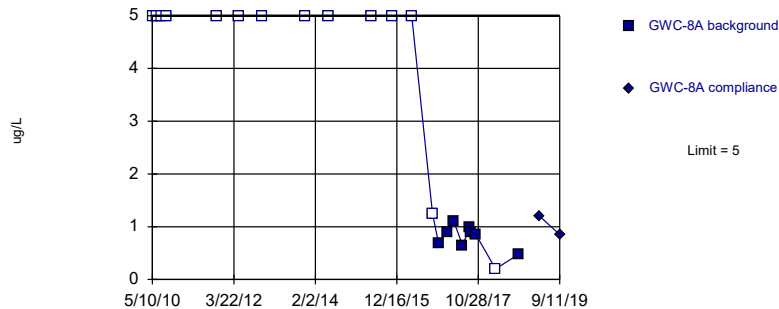
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



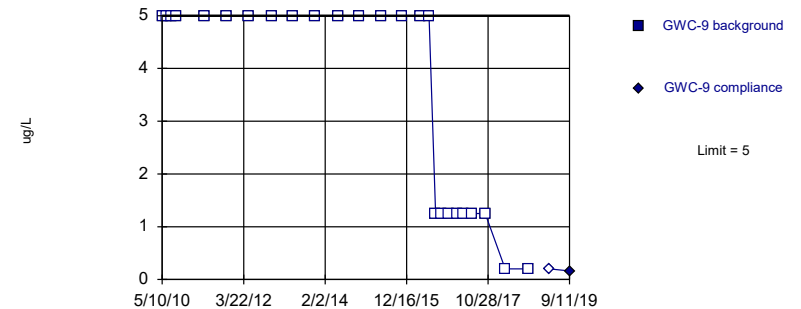
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



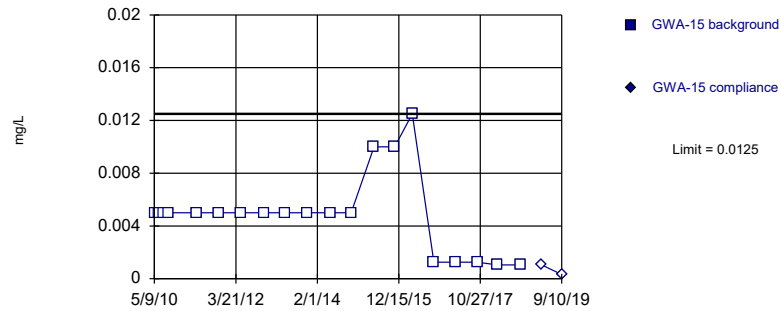
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



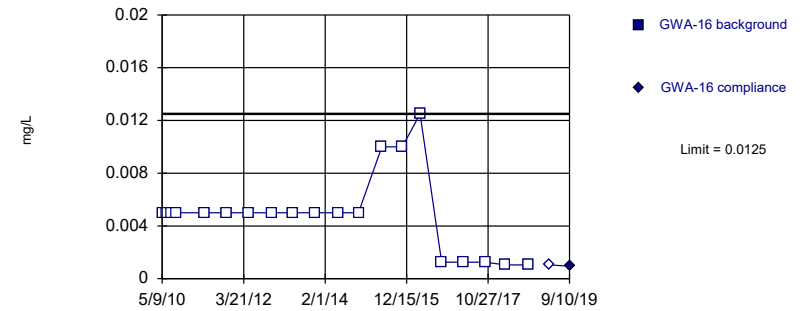
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



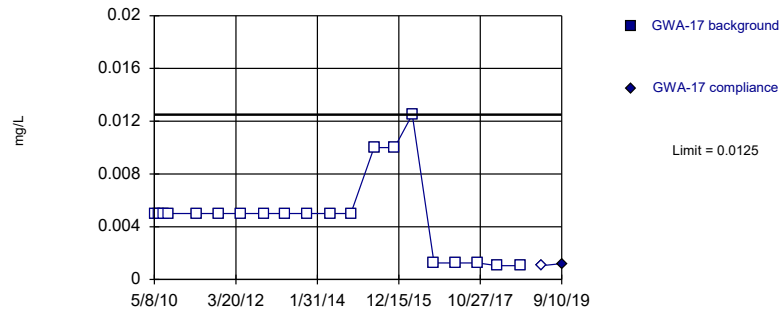
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



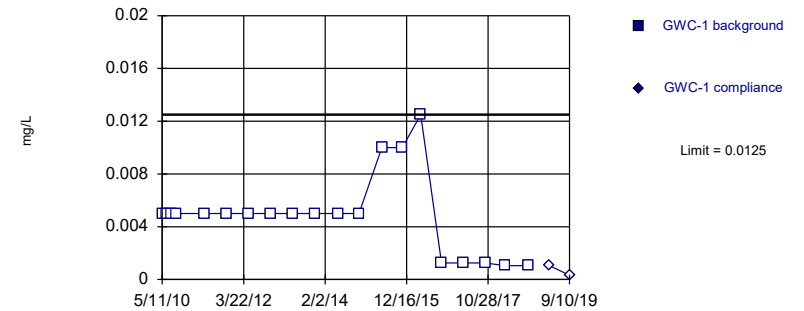
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:47 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



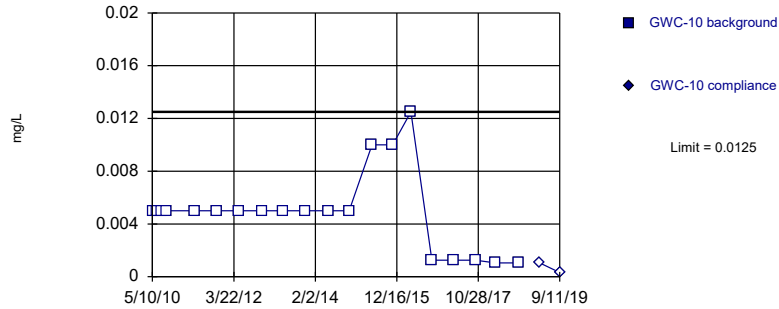
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



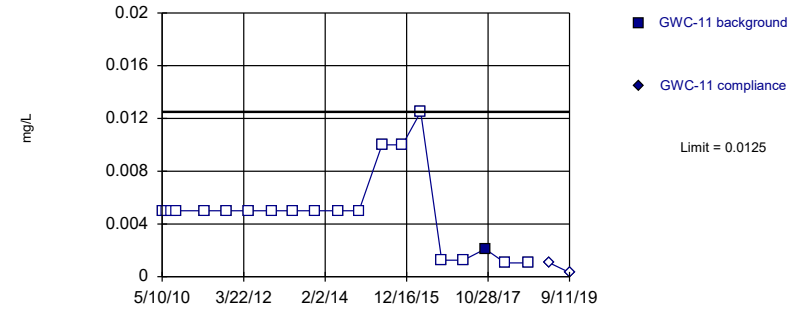
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



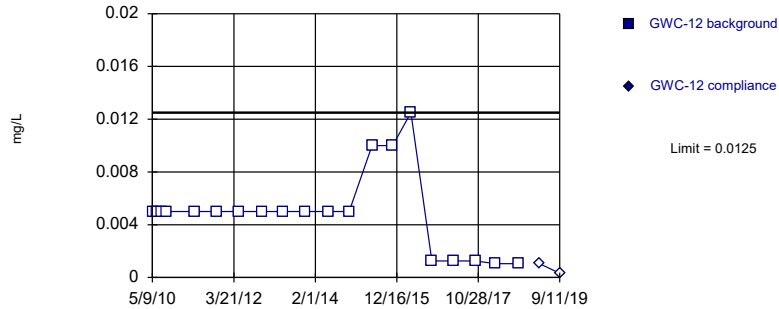
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



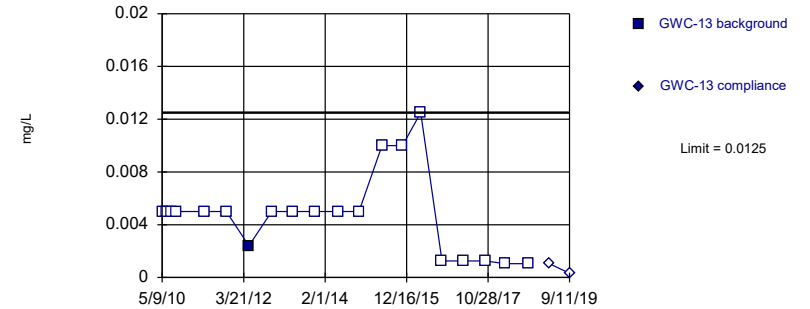
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



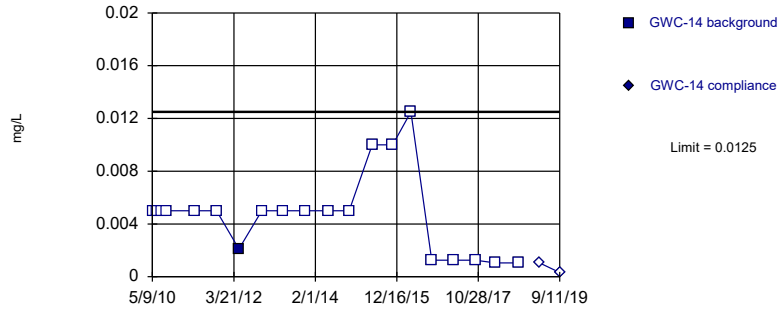
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



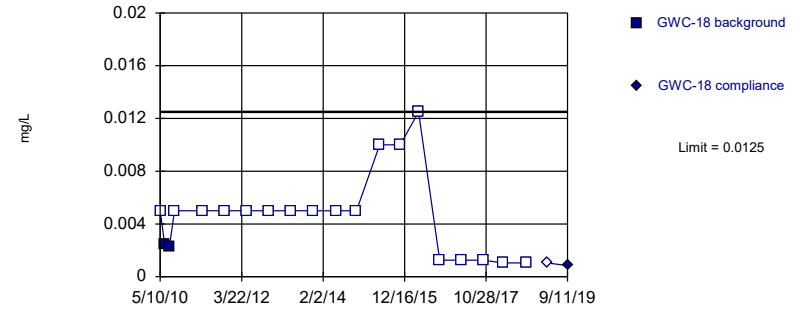
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



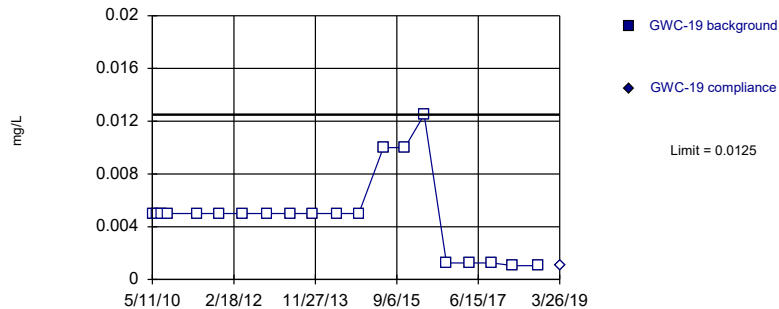
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Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



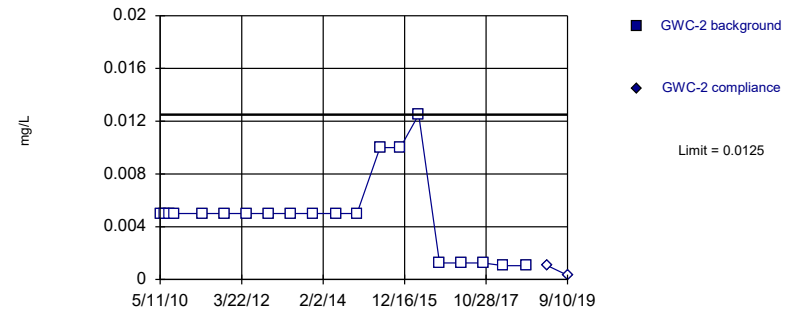
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



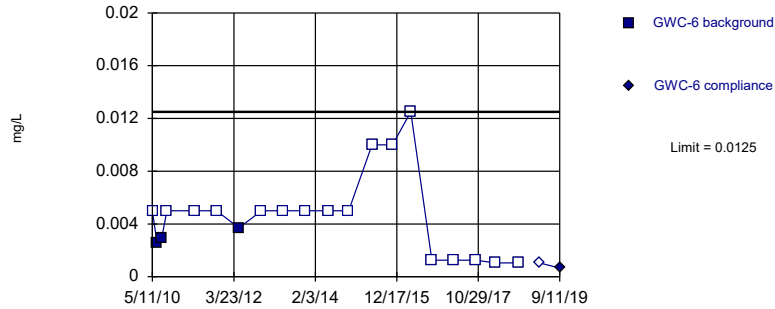
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Within Limit

Prediction Limit  
Intrawell Non-parametric

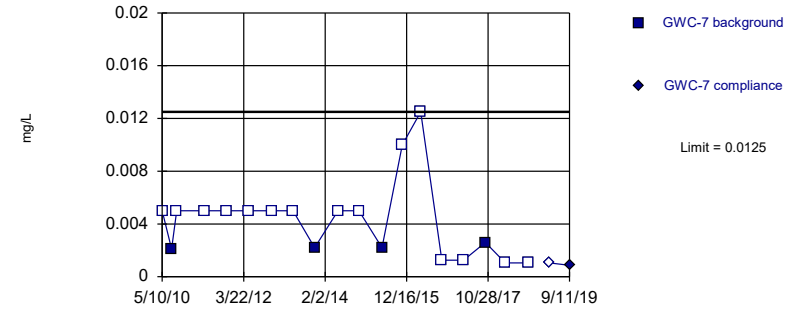


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

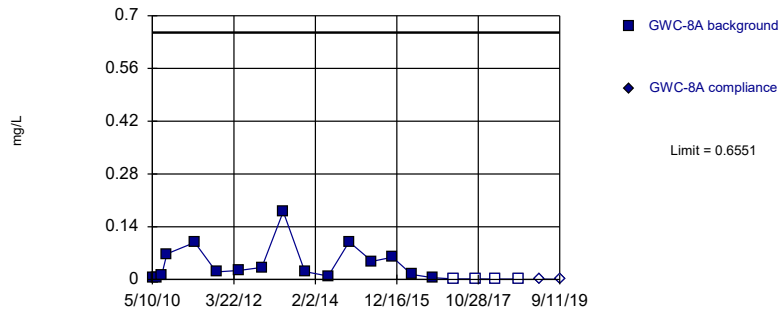


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

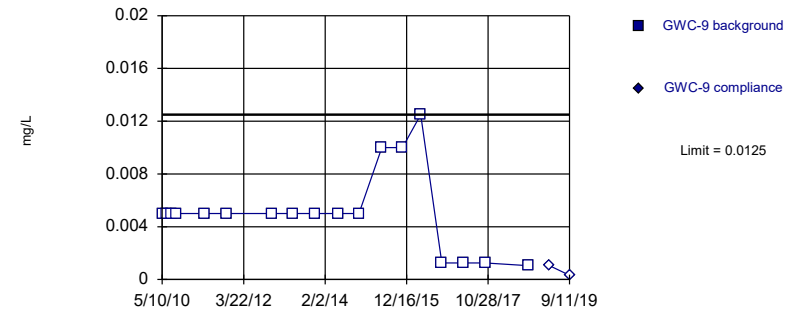


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-4.222, Std. Dev.=1.427, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9393, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



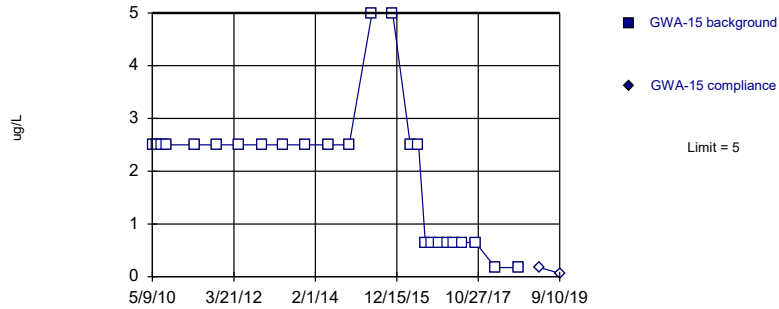
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



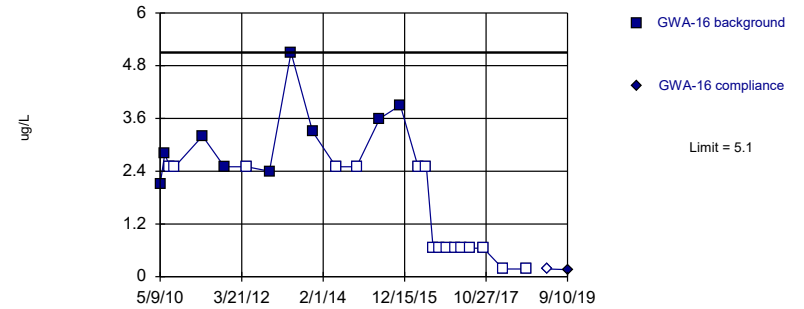
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



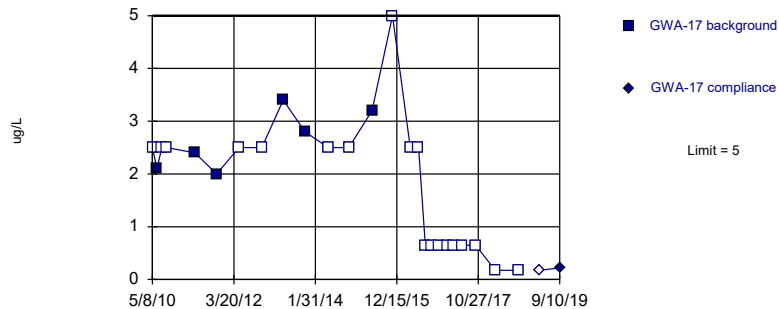
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



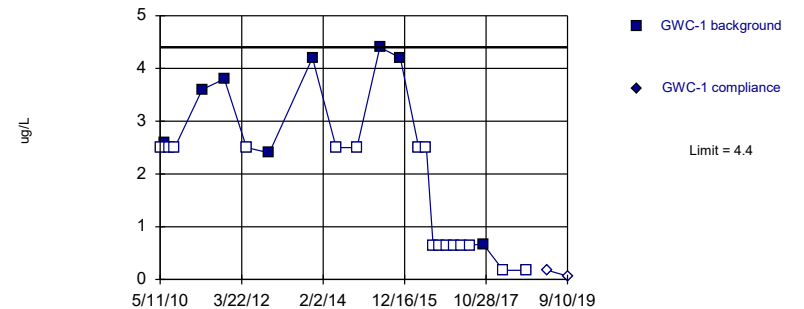
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 76% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 66.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

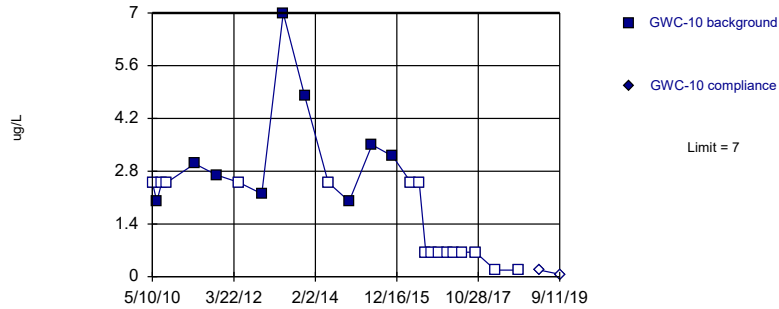
Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



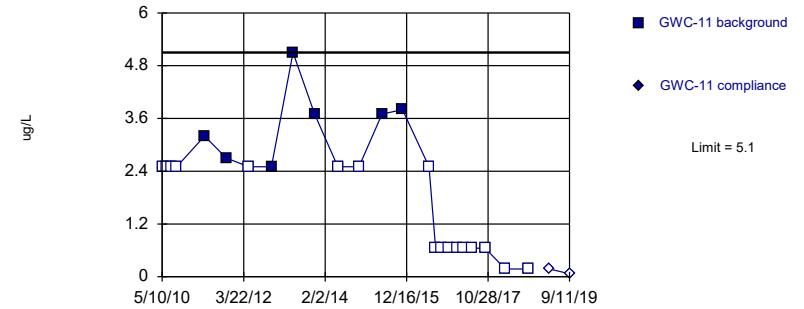
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



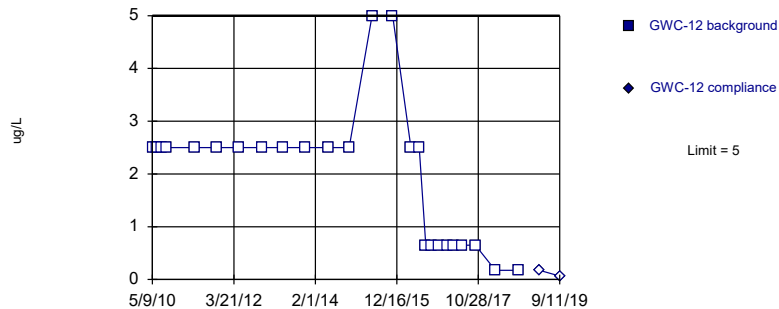
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



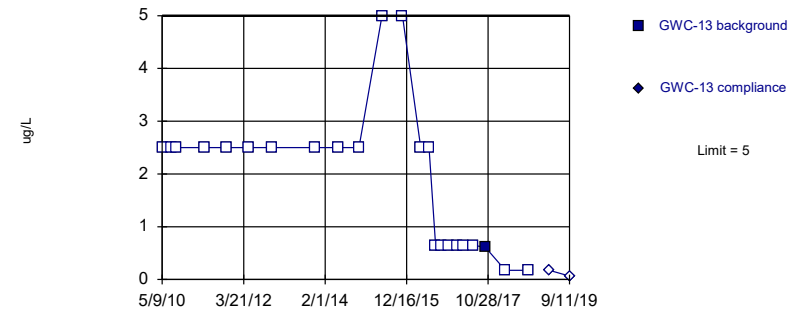
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



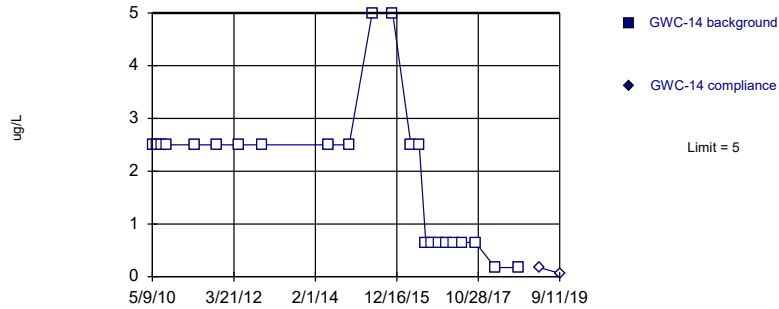
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



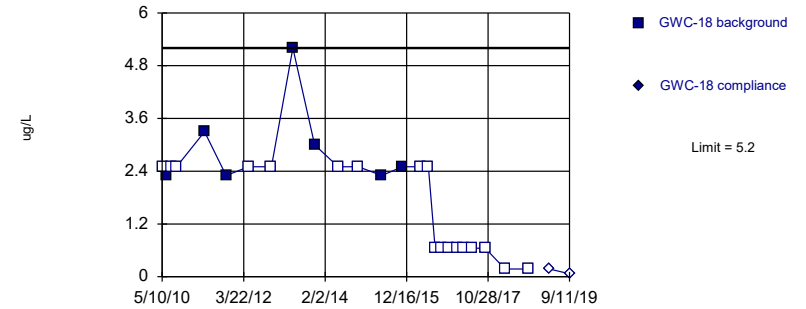
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



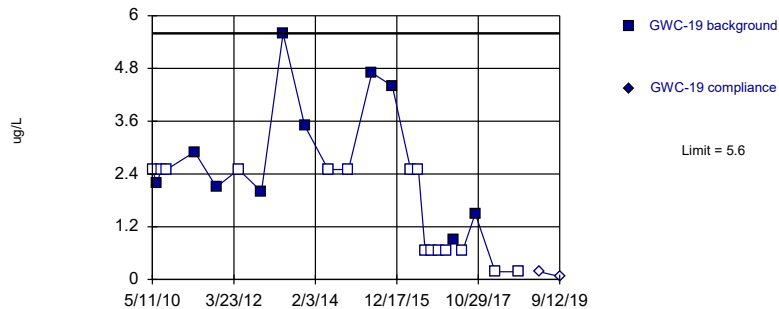
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



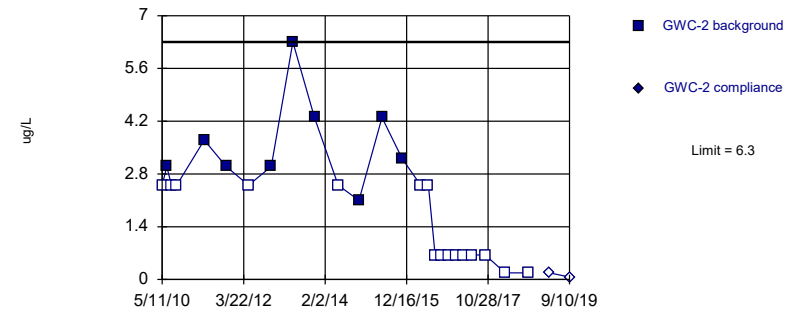
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 60% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 64% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

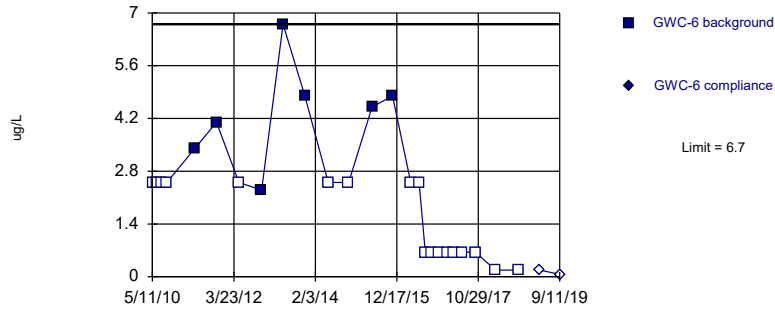
Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



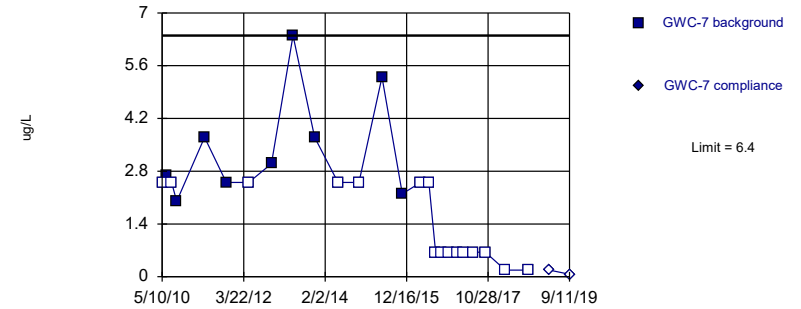
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



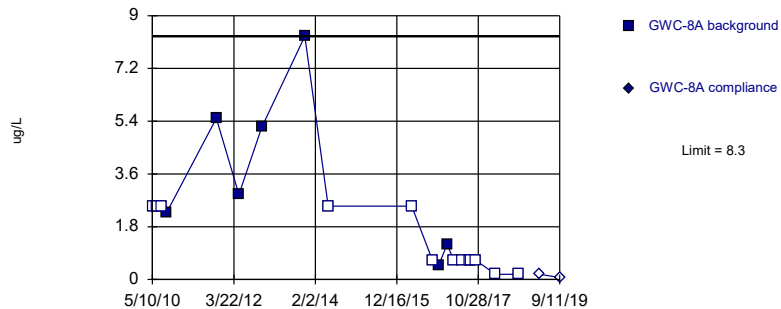
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



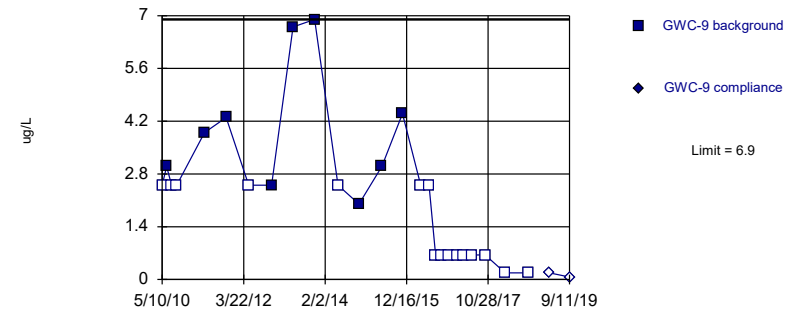
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

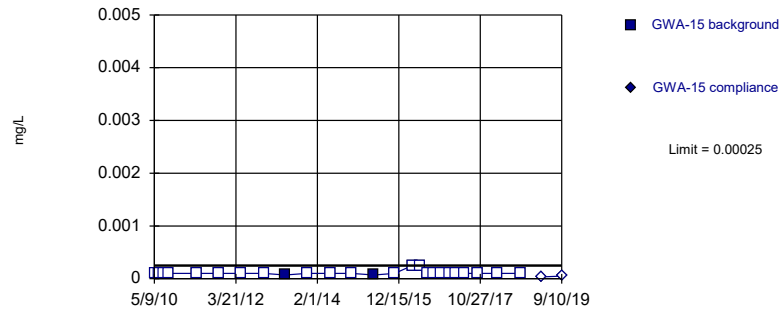


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

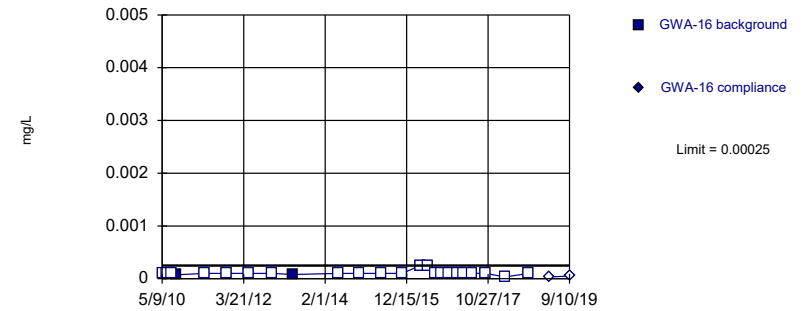


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

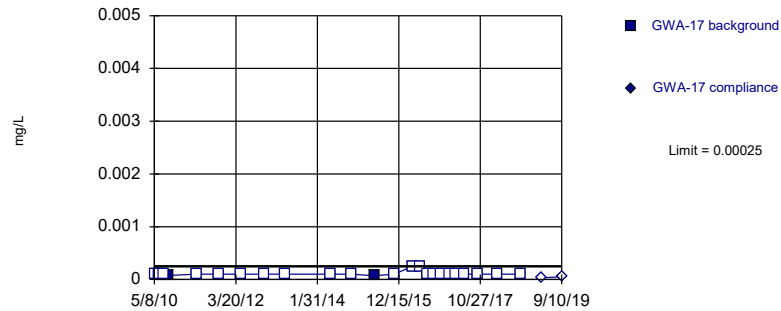


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

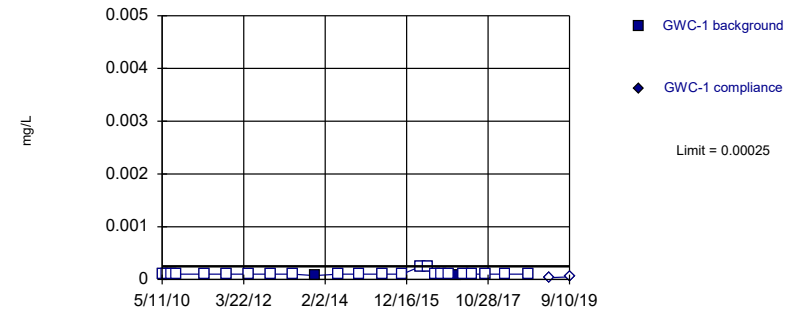


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric



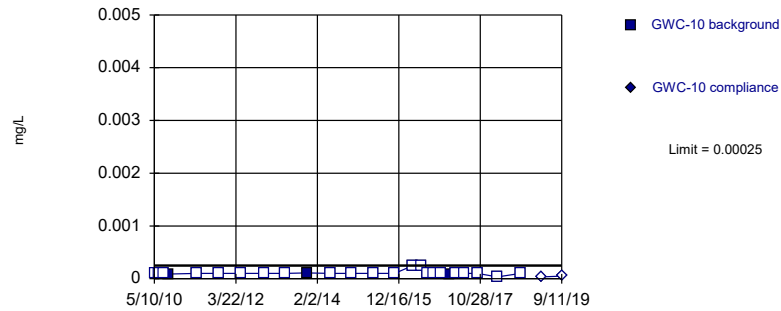
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



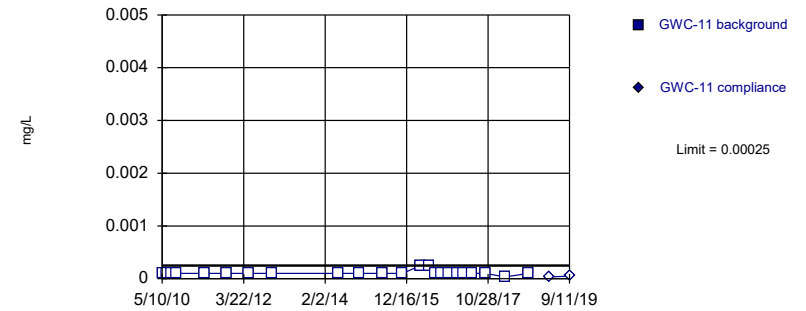
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 88% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



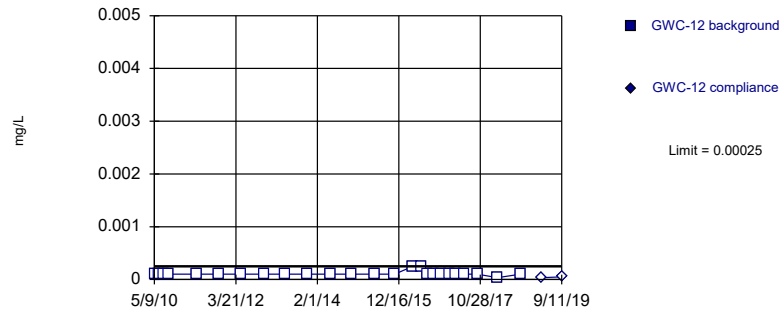
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



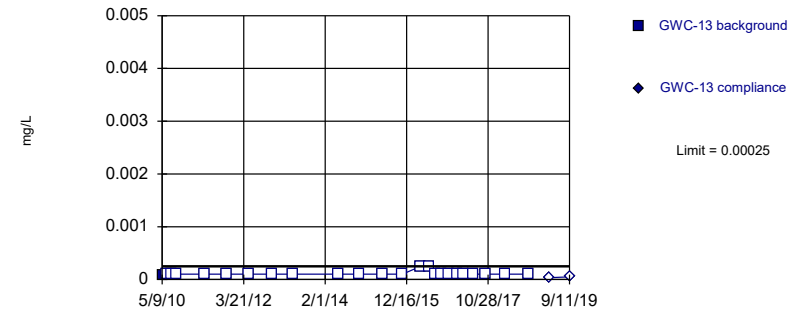
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

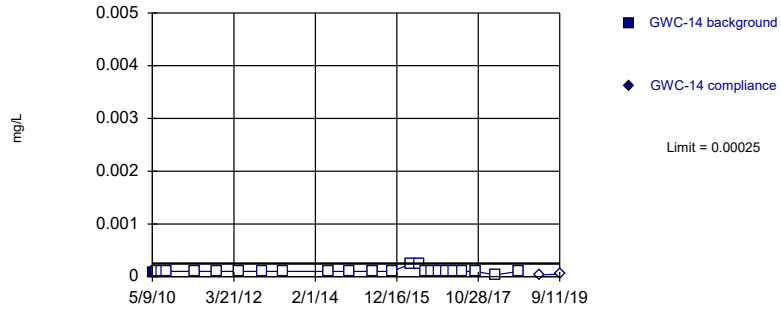


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:48 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

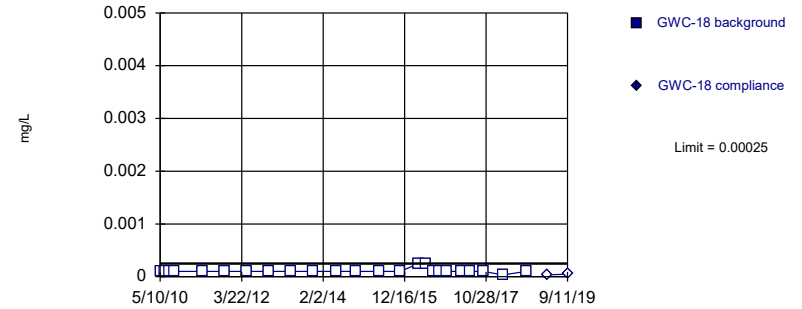


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

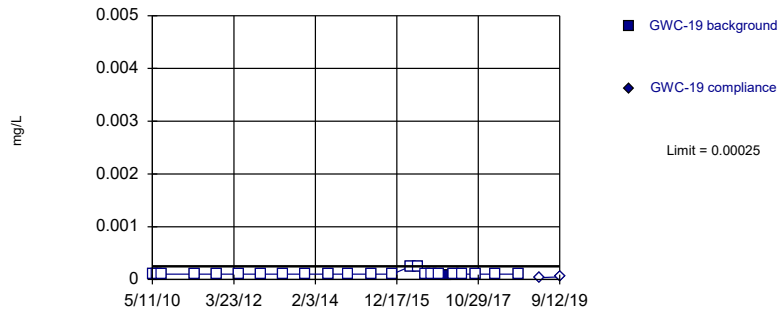


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

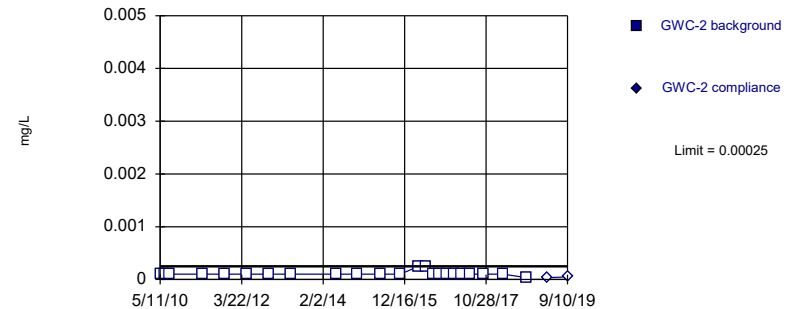


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

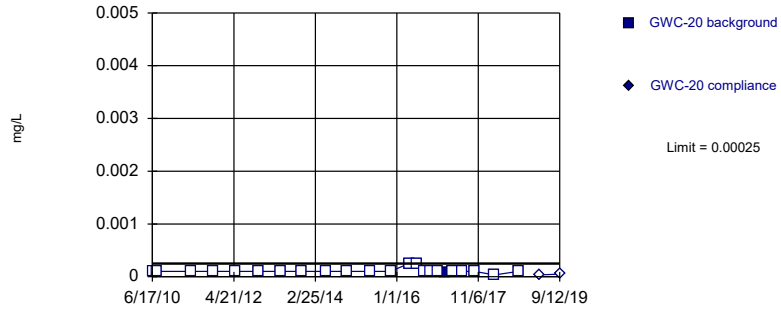


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

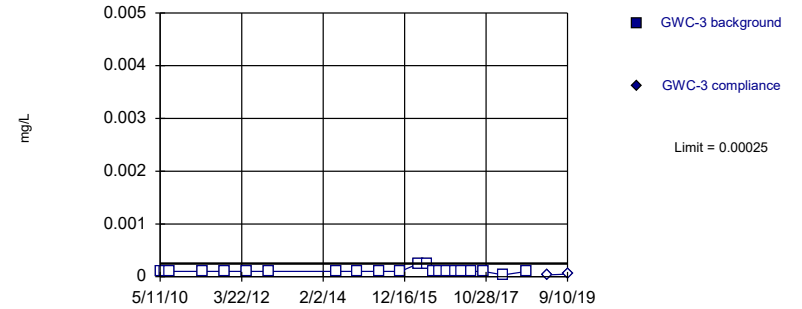


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

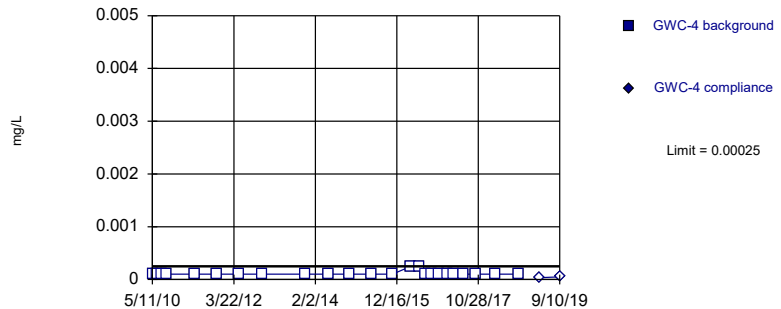


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

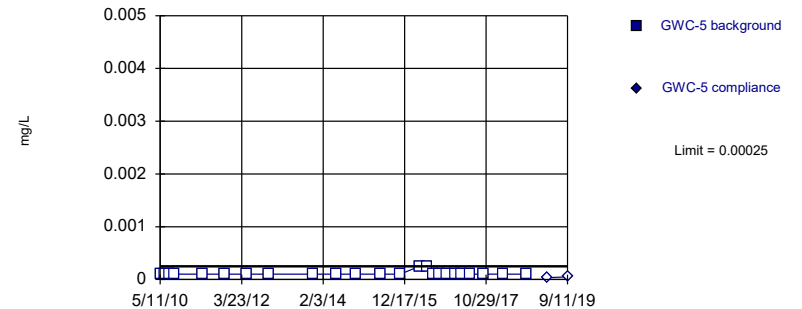


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

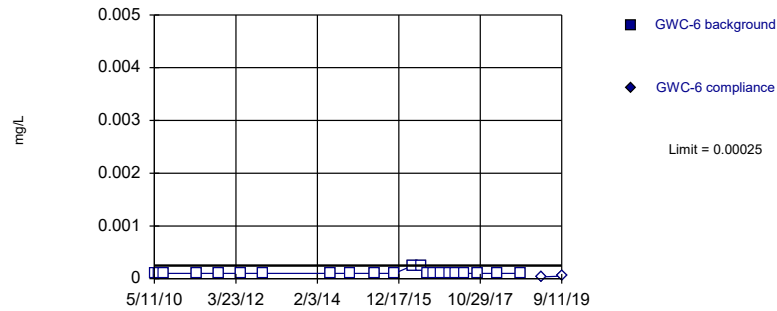
Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



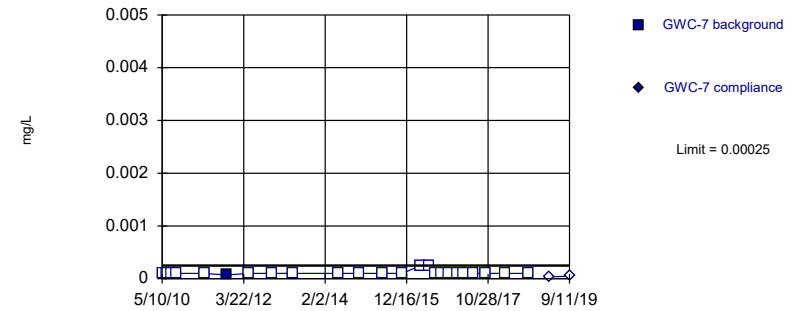
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



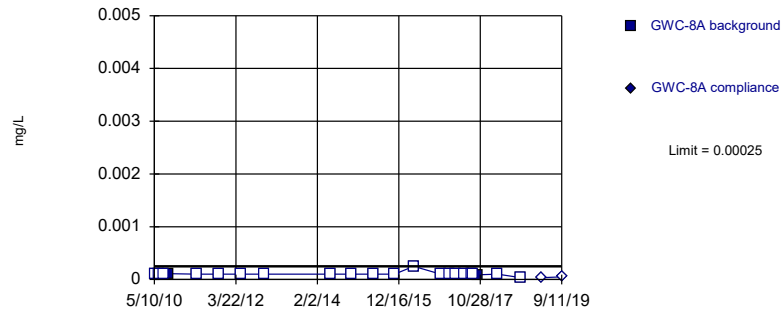
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



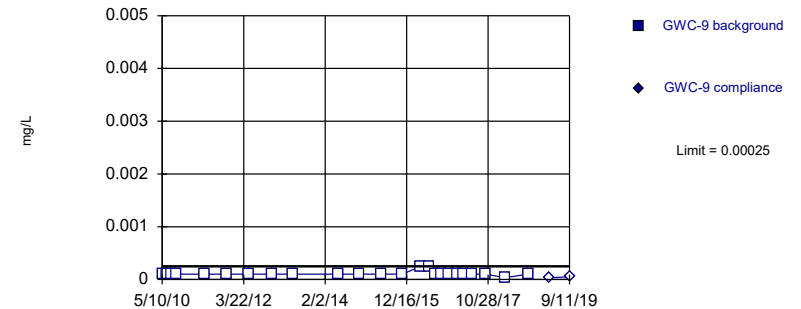
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



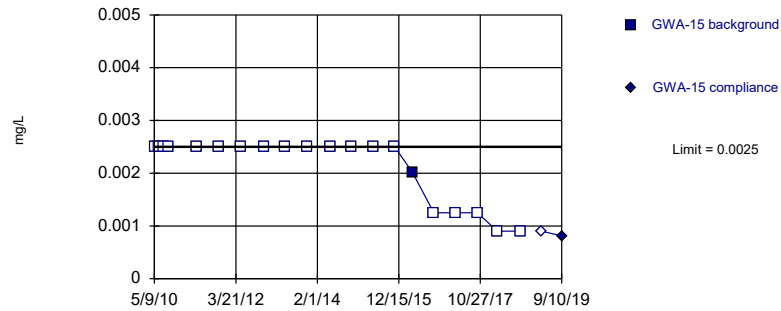
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



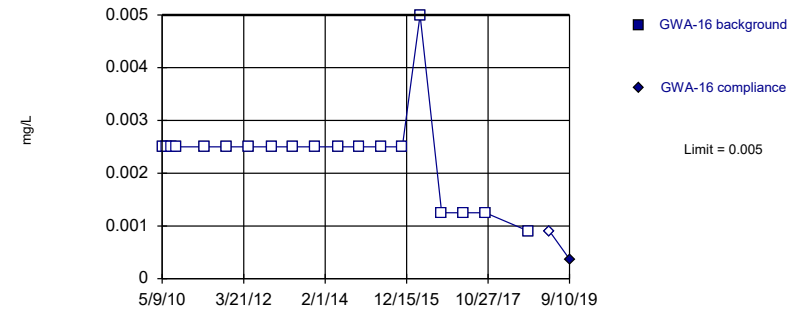
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



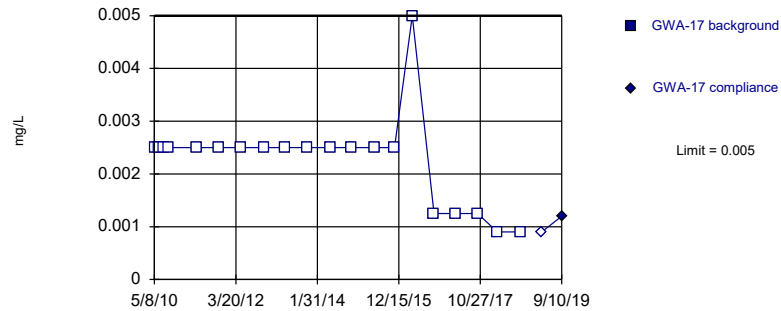
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



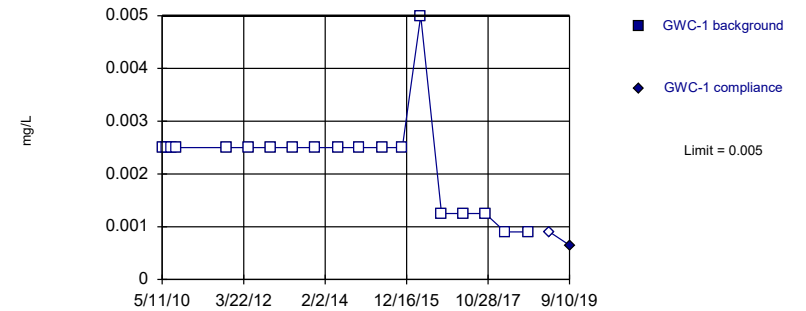
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

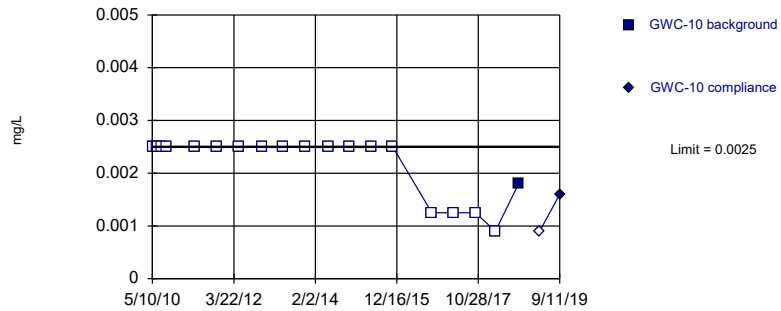


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

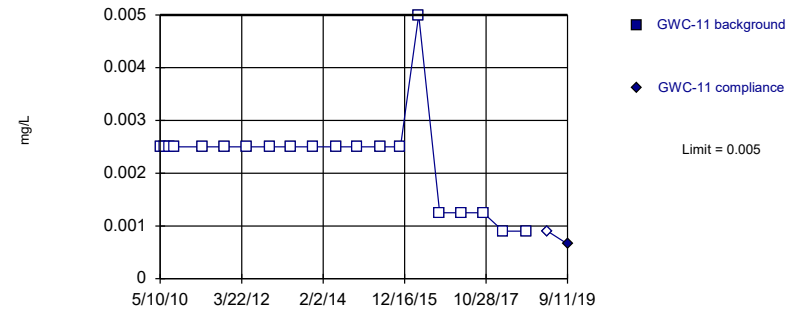


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

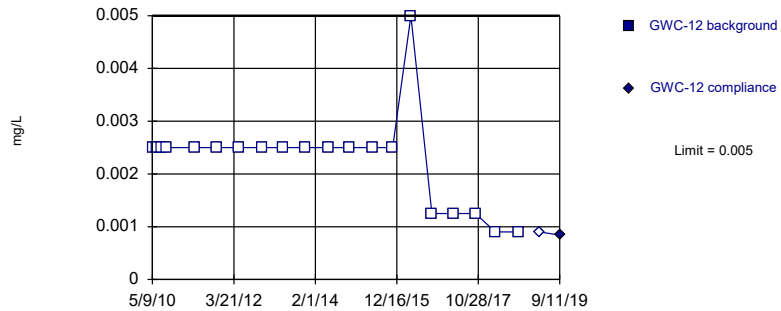


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

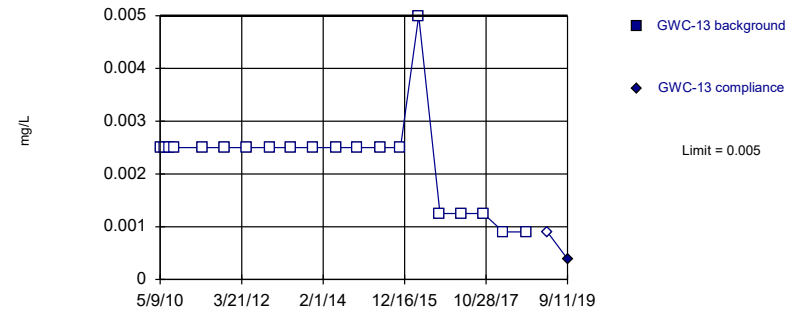


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



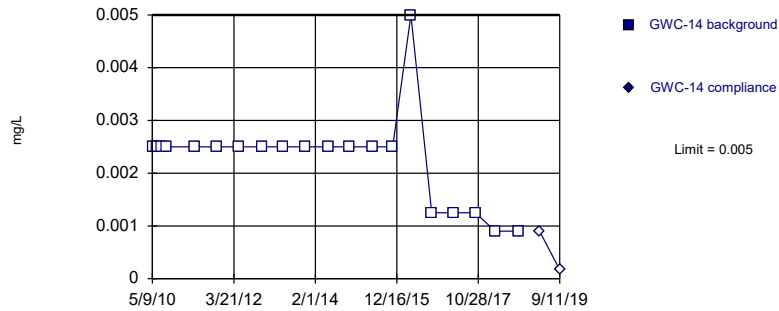
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



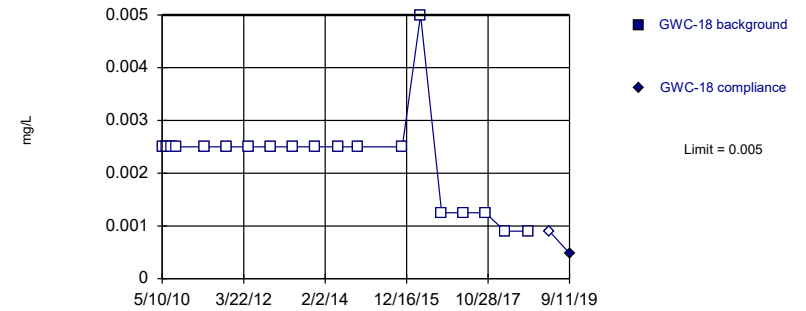
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



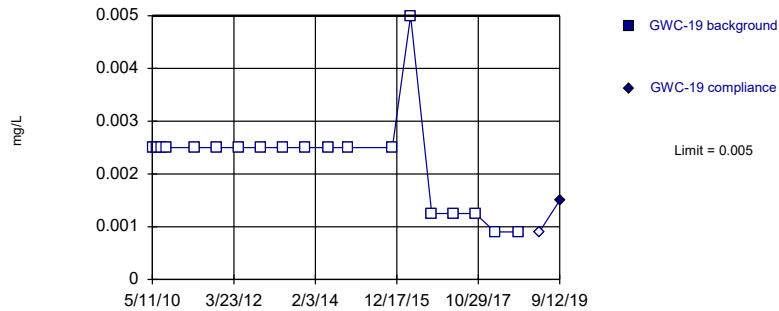
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



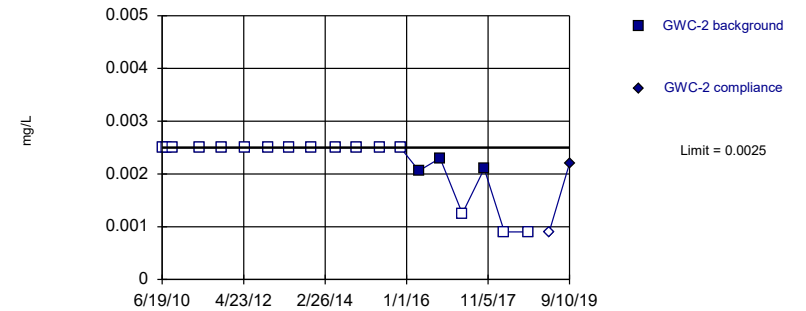
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

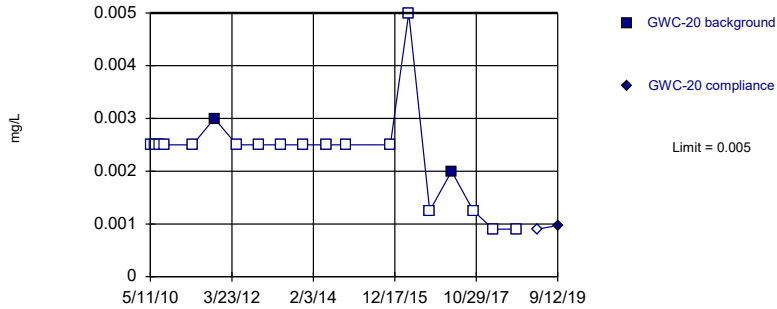


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

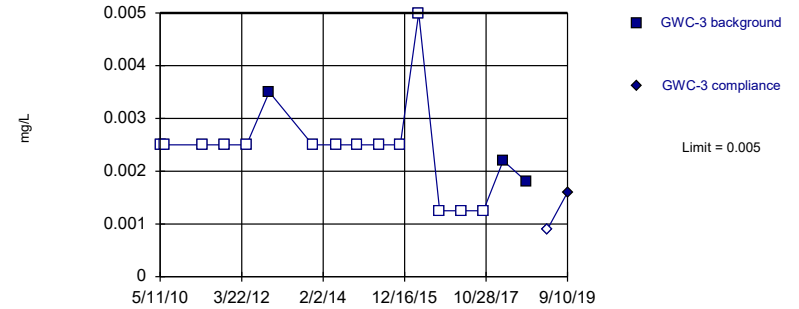


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

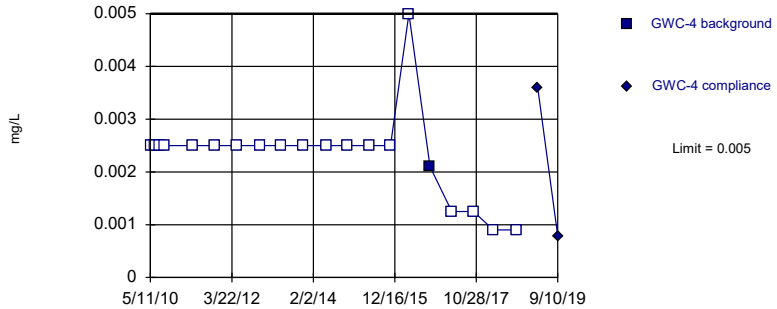


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

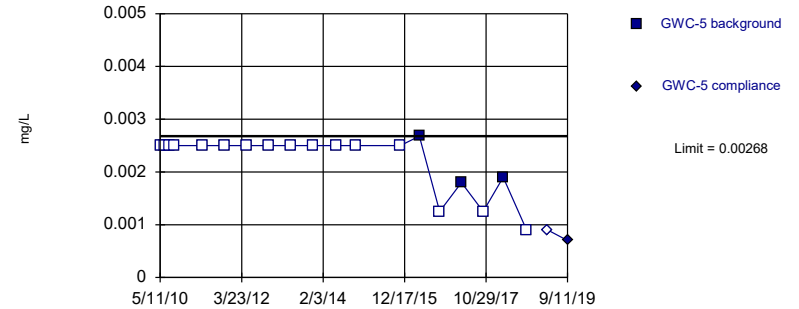


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric



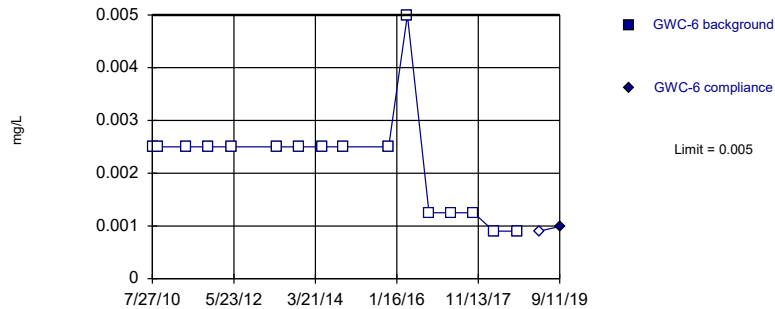
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



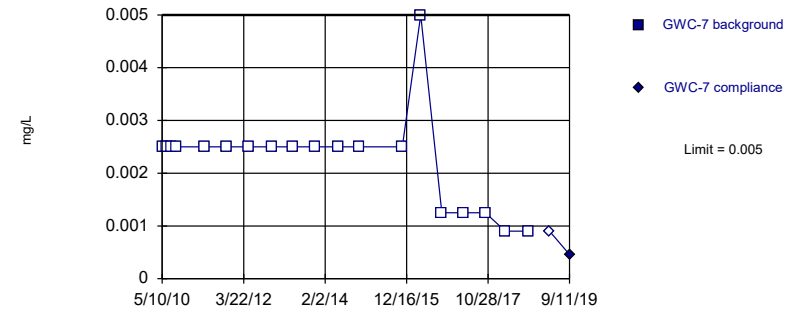
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 100% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



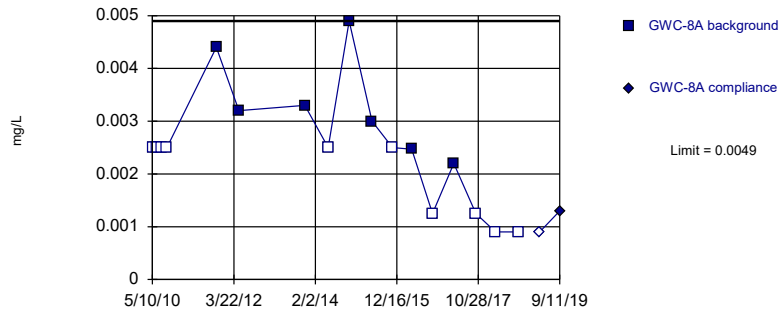
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



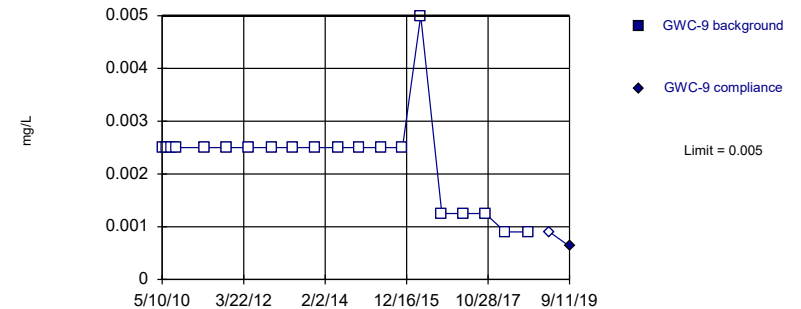
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.011179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



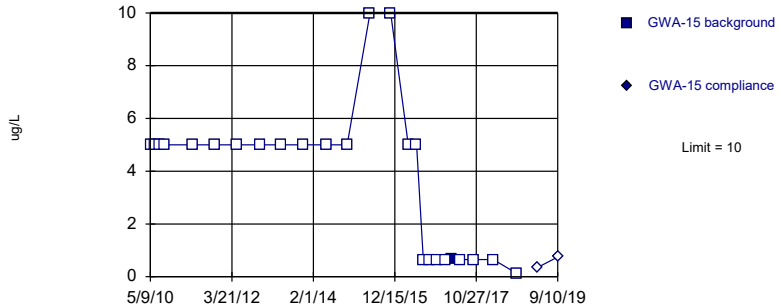
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



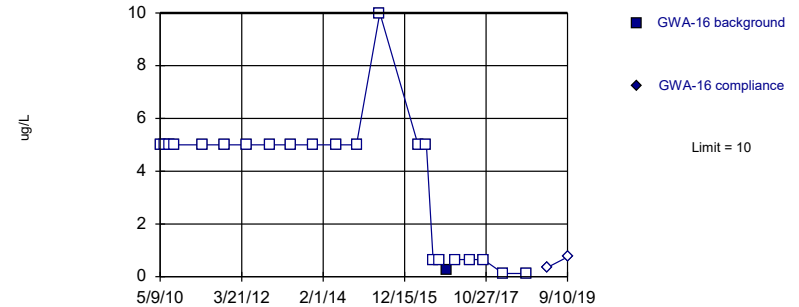
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



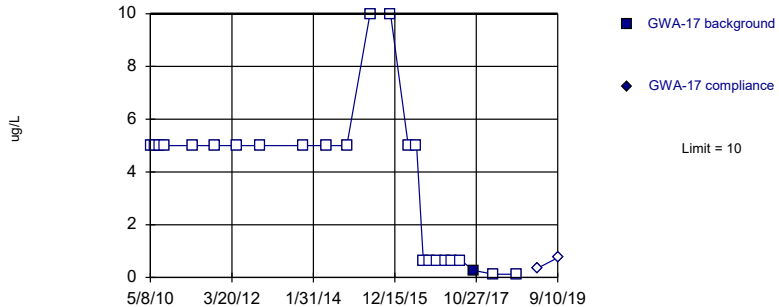
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



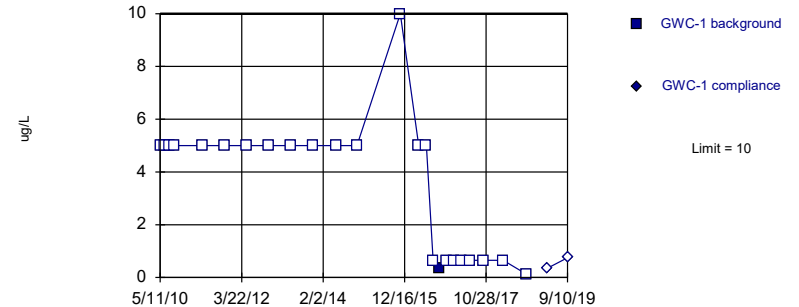
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



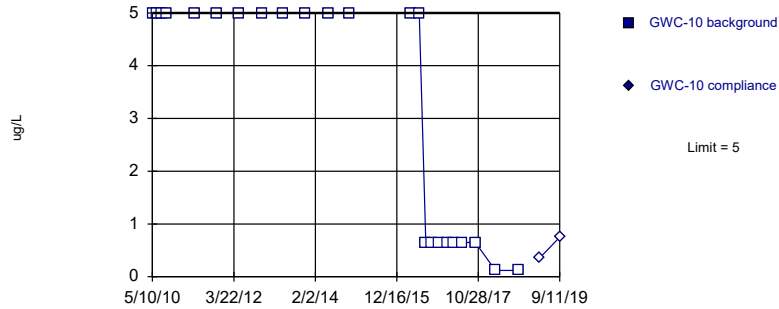
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



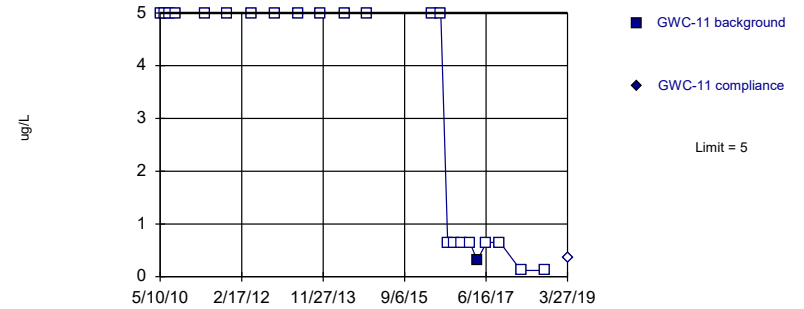
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



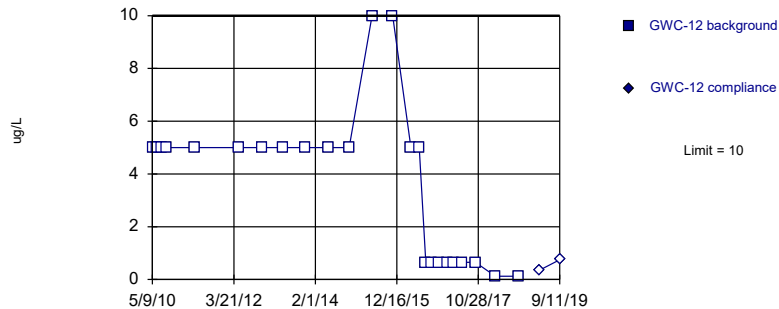
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



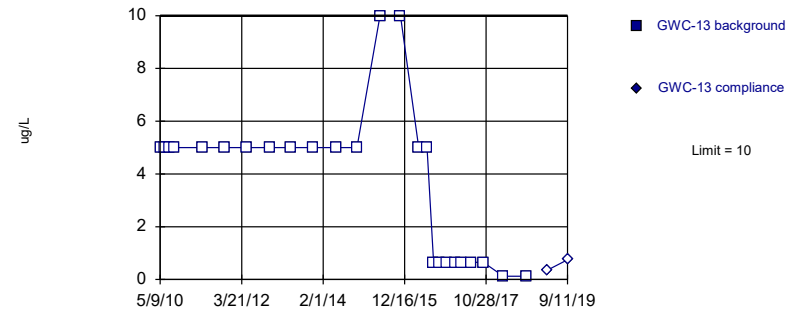
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

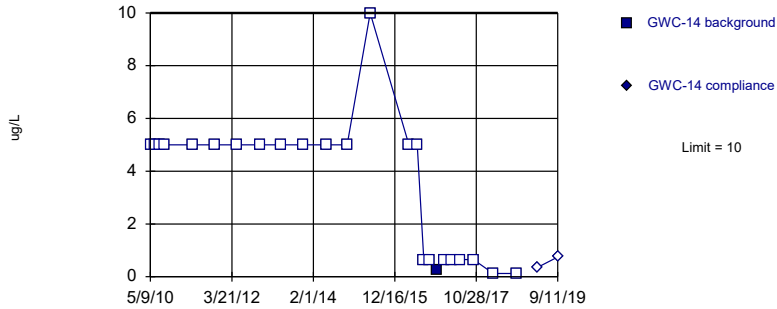
Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



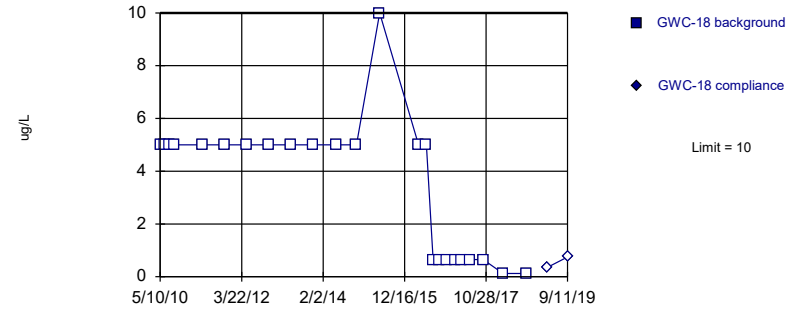
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



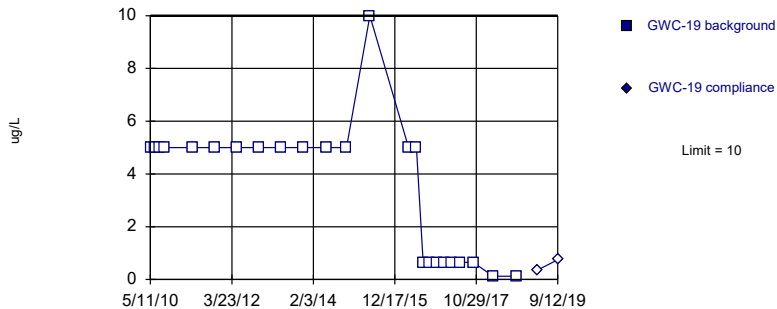
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



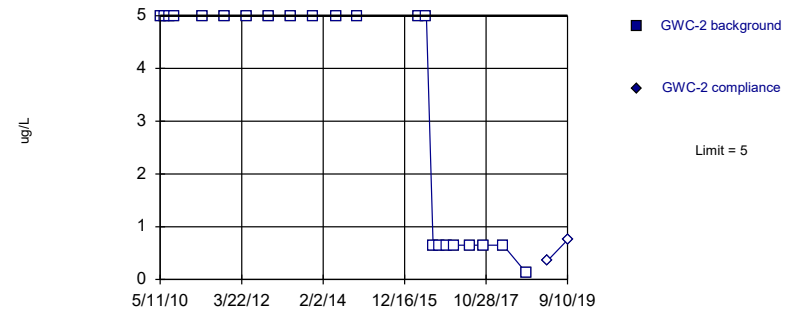
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



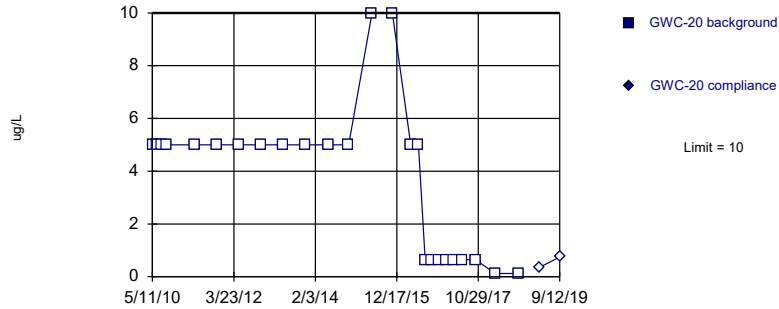
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:49 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



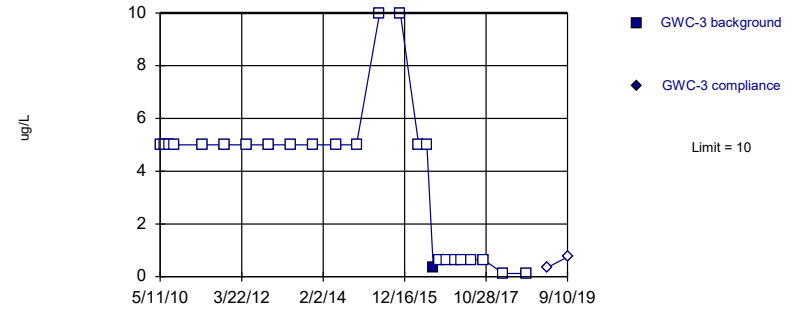
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



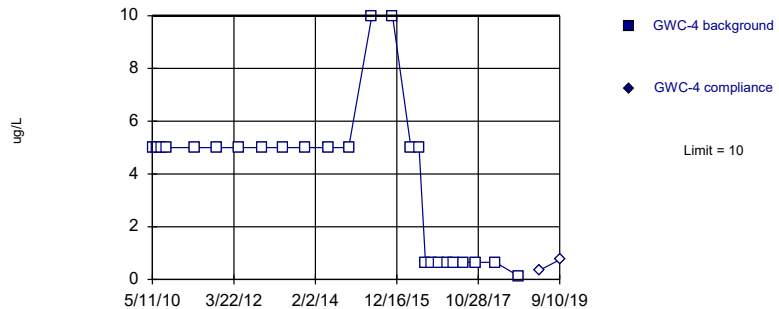
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



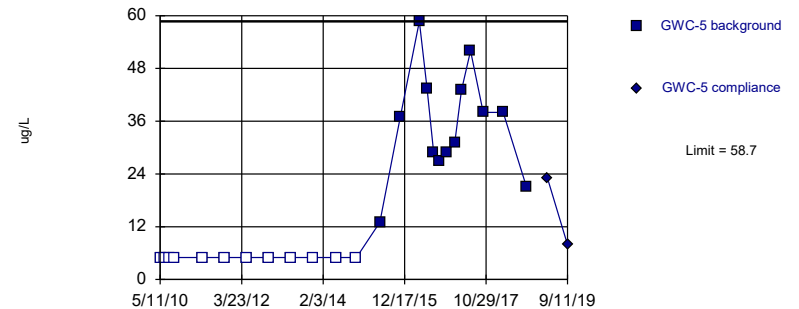
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



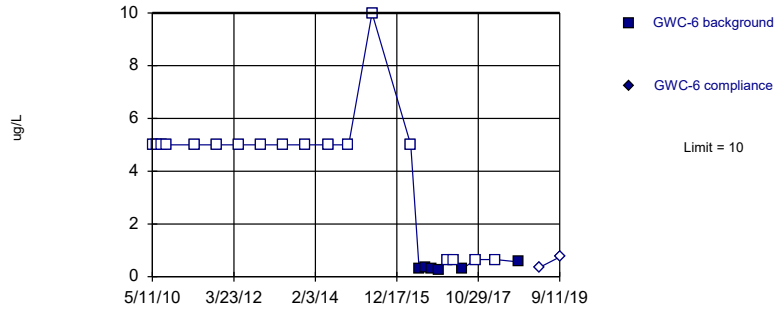
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 48% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



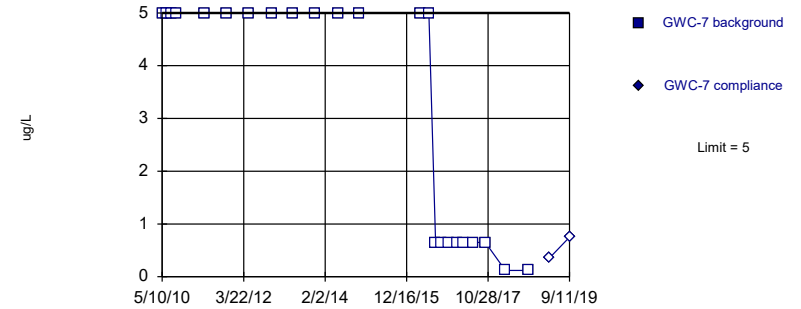
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



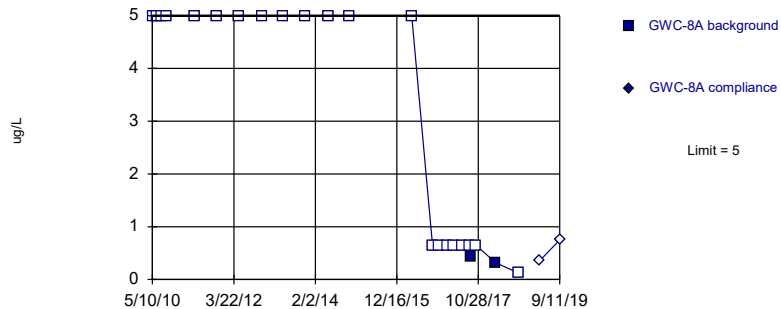
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



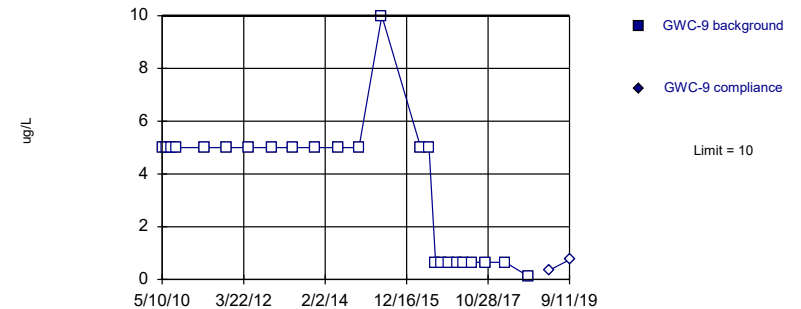
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

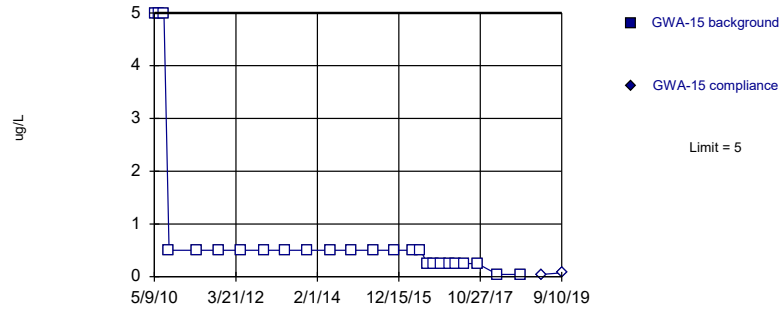


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

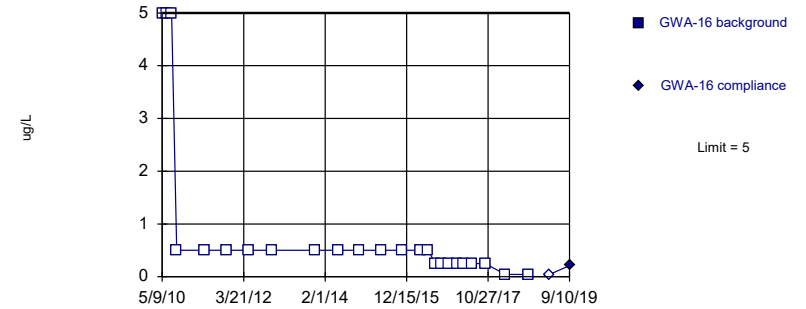


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

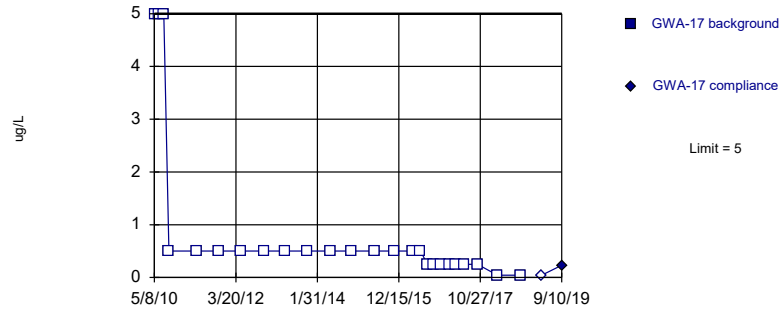


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

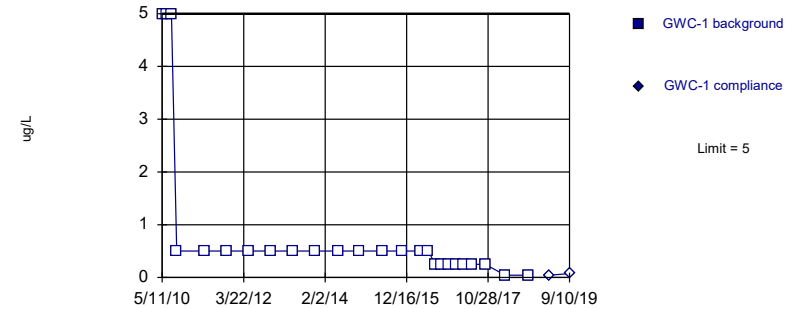


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric



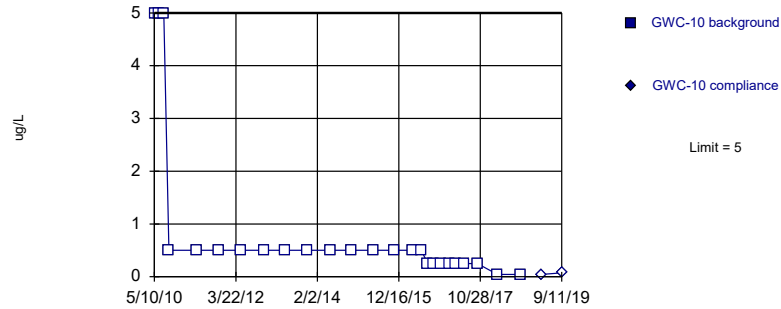
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



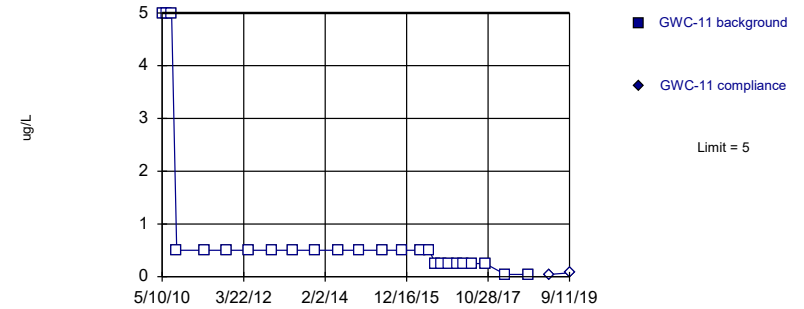
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



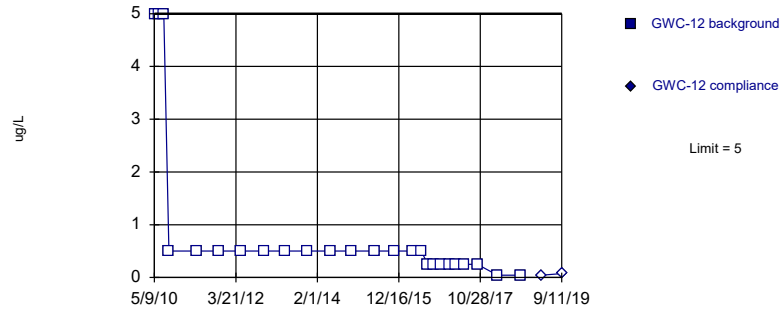
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



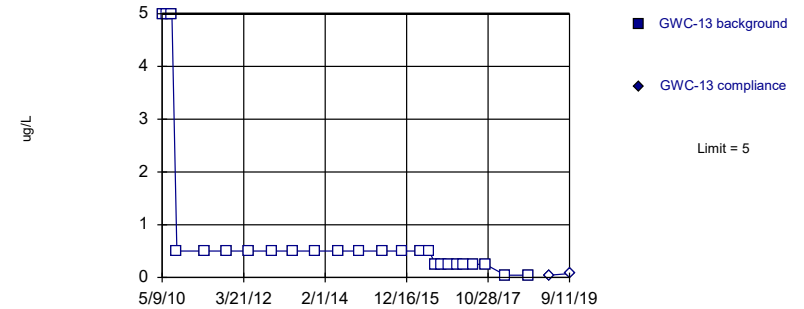
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

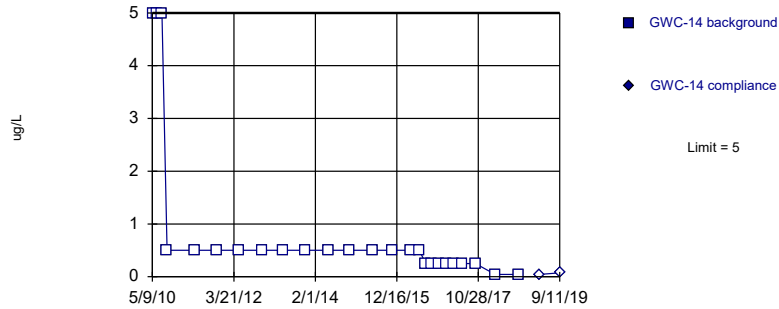


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

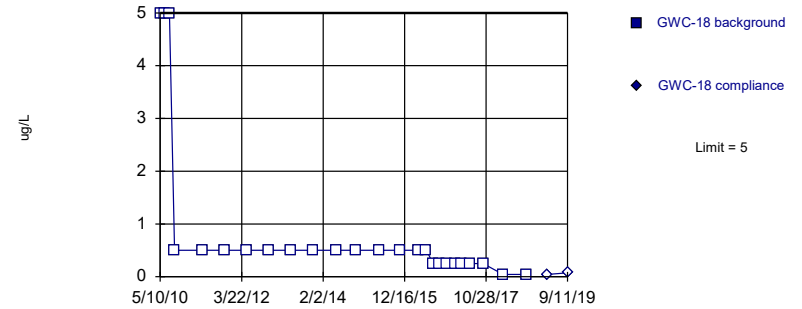


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

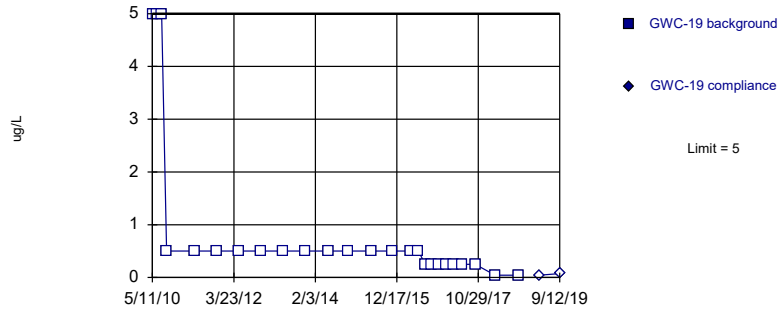


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

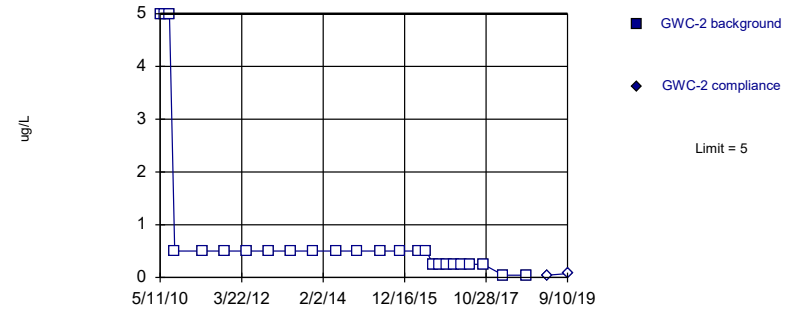


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

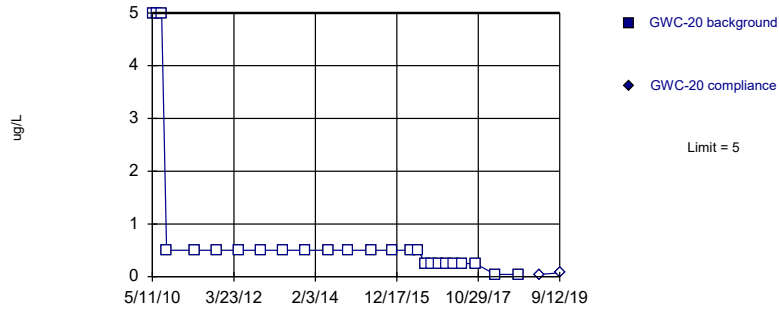


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

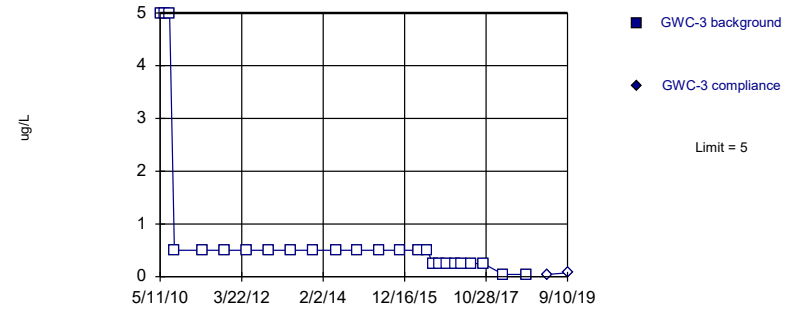


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

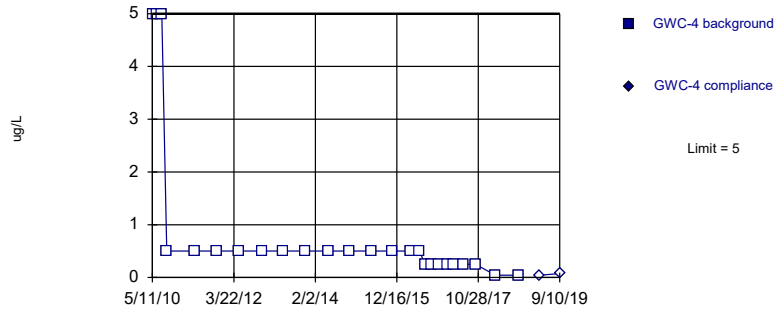


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

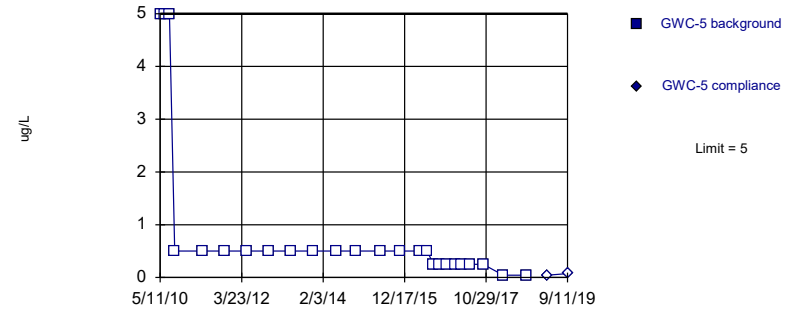


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

### Prediction Limit Intrawell Non-parametric

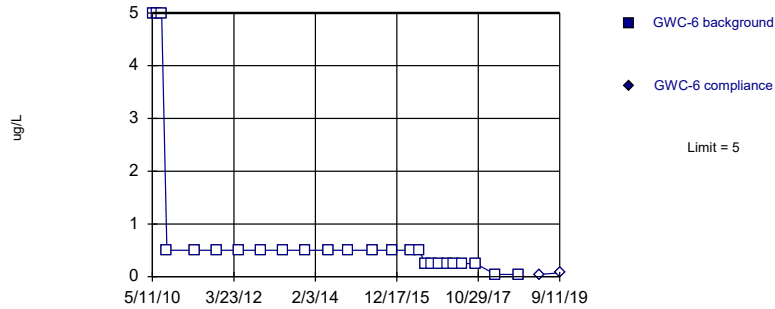


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

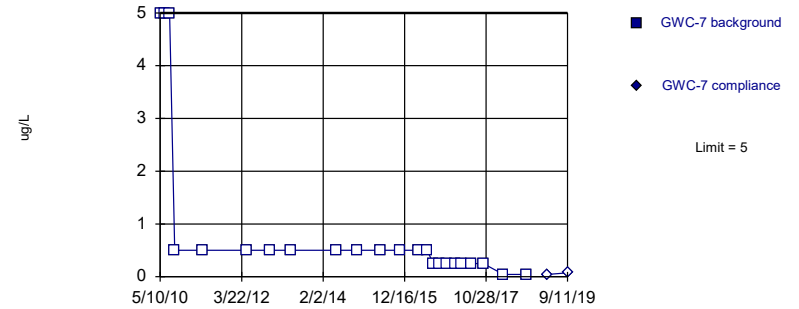


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

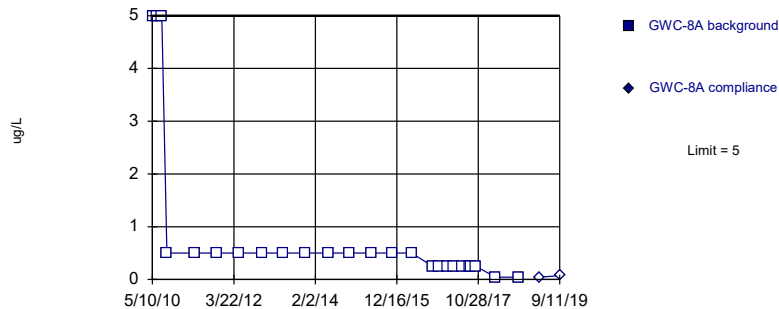


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Non-parametric

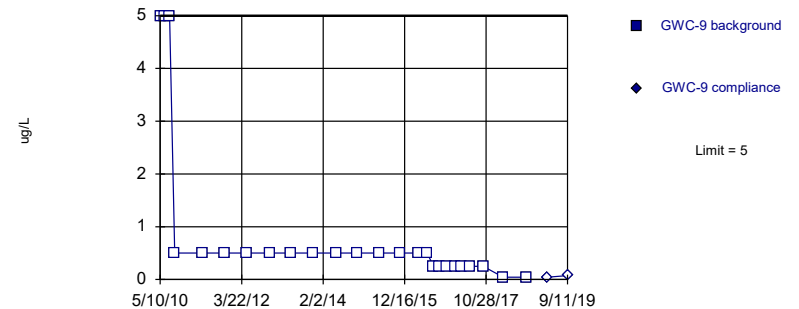


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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. 100% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

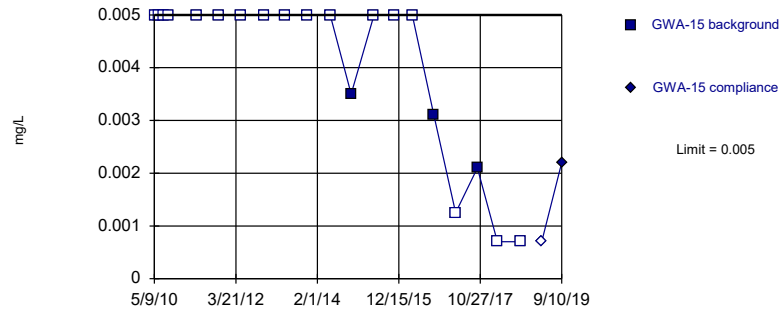
Constituent: Thallium, Total Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



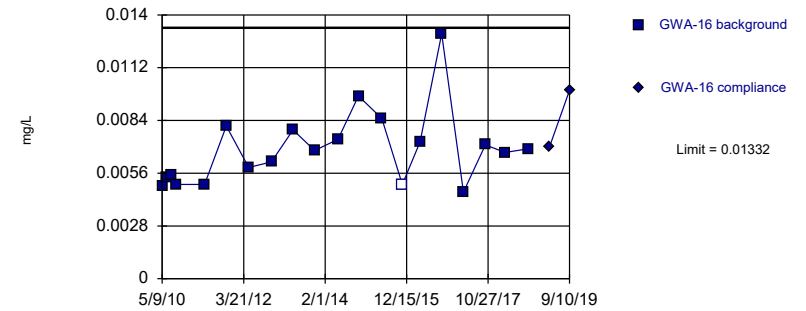
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



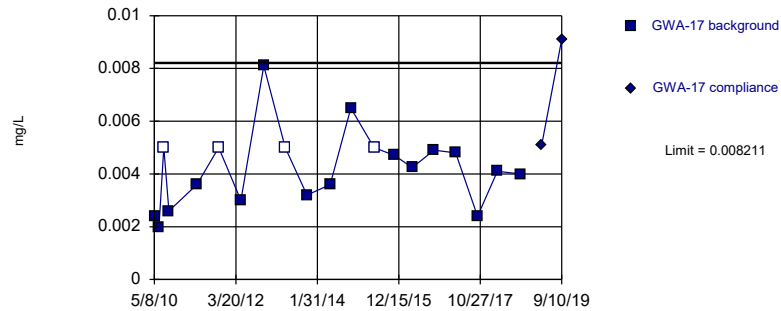
Background Data Summary (based on natural log transformation): Mean=-5.02, Std. Dev.=0.2633, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9406, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric



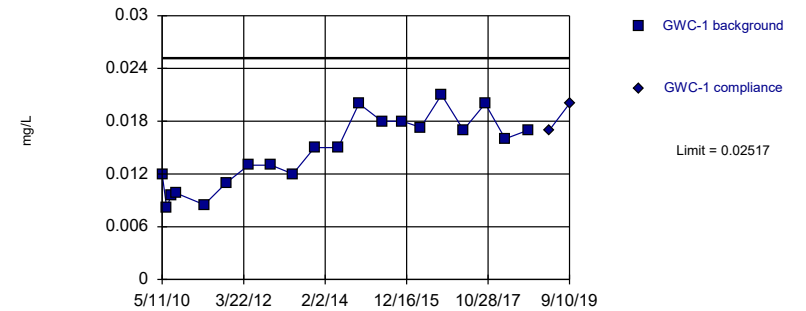
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003917, Std. Dev.=0.001613, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG

Within Limit

Prediction Limit  
Intrawell Parametric

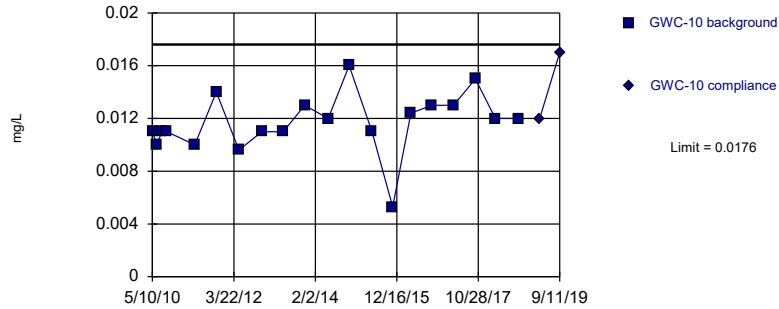


Background Data Summary: Mean=0.01457, Std. Dev.=0.003982, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9518, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

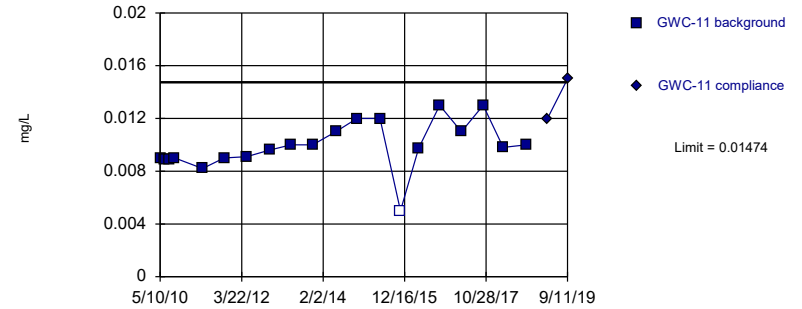


Background Data Summary: Mean=0.01167, Std. Dev.=0.002231, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

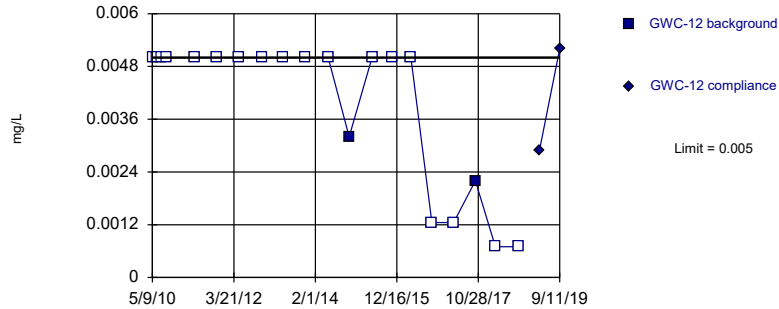


Background Data Summary: Mean=0.009913, Std. Dev.=0.001815, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9125, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

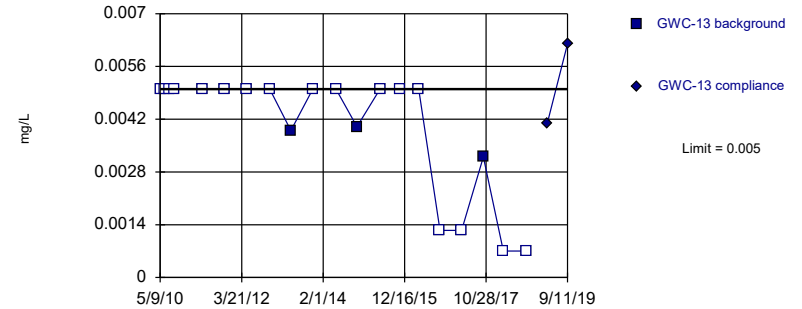


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

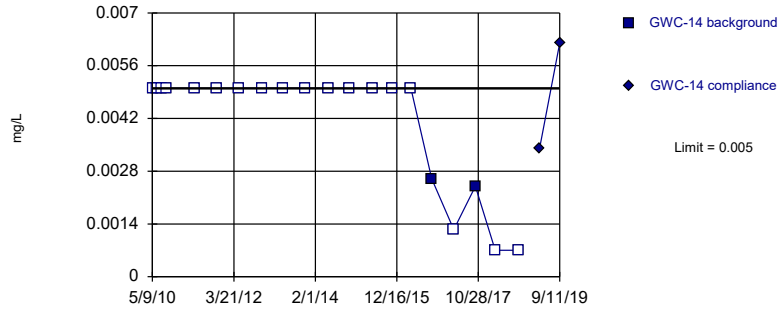


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

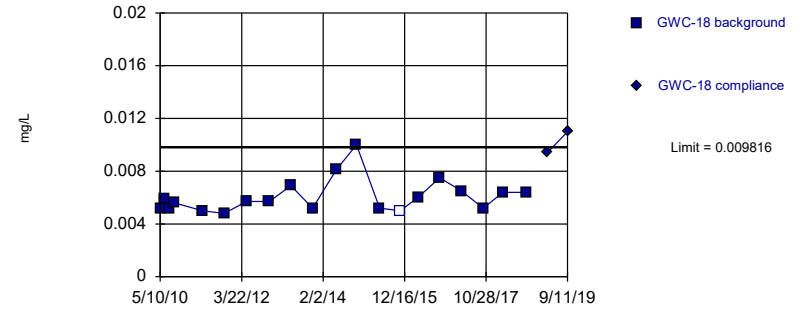


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit  
Intrawell Parametric

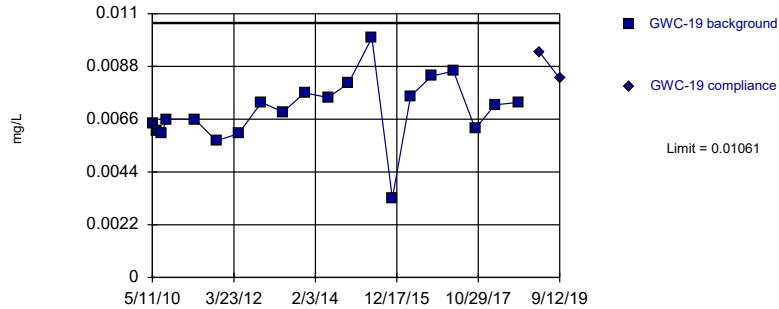


Background Data Summary (based on natural log transformation): Mean=-5.121, Std. Dev.=0.1869, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8809, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric

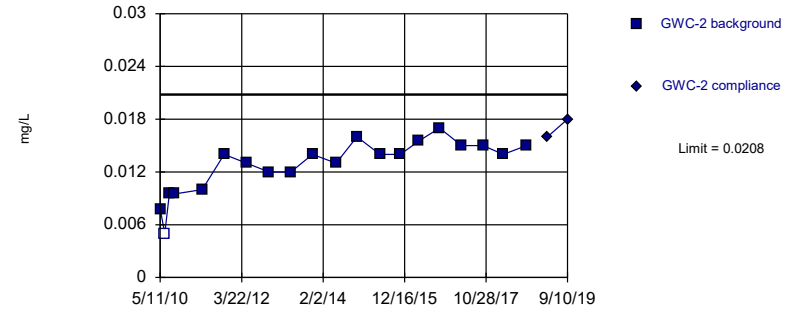


Background Data Summary: Mean=0.006973, Std. Dev.=0.001367, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01277, Std. Dev.=0.003018, n=20, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9084, critical = 0.868. Kappa = 2.662 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Vanadium Analysis Run 1/27/2020 9:50 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

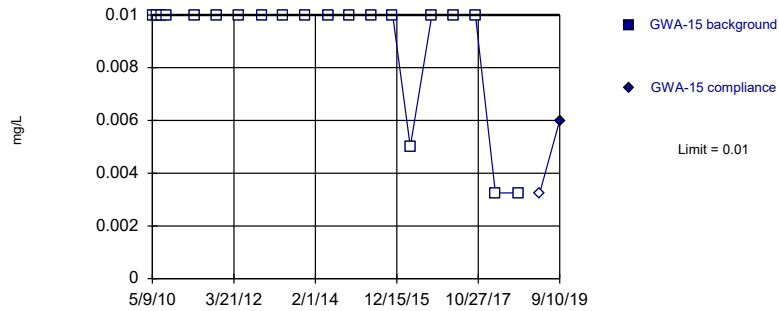




Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



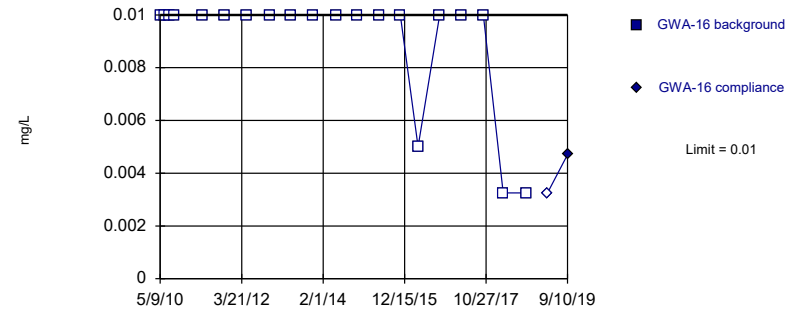
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



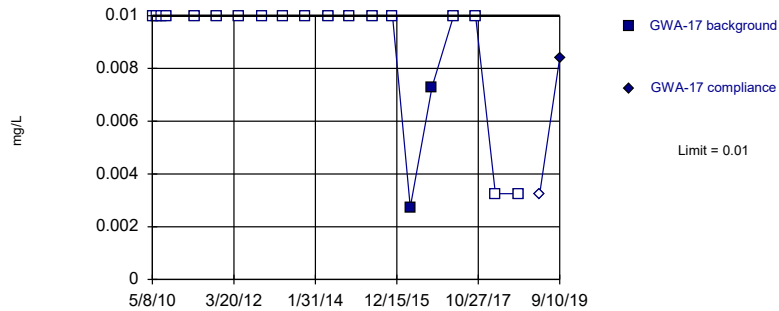
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



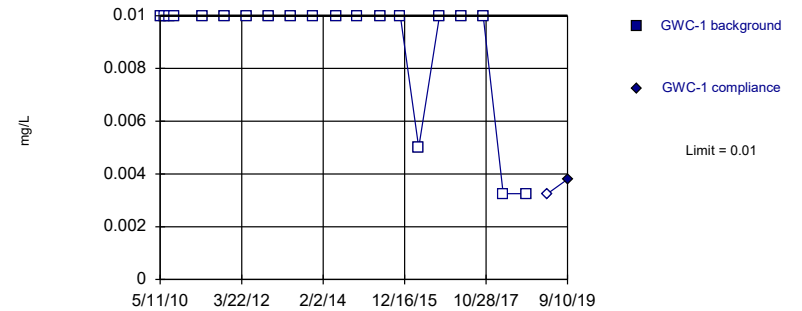
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



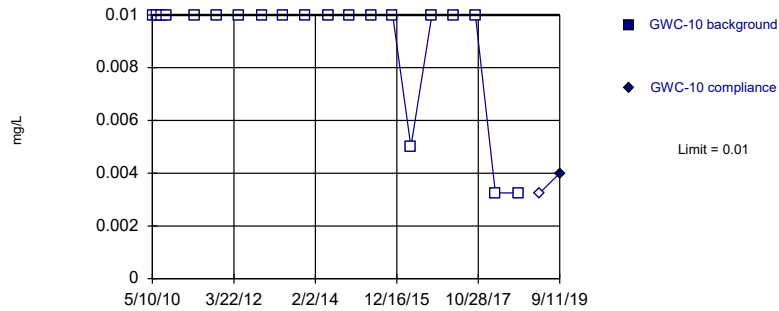
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



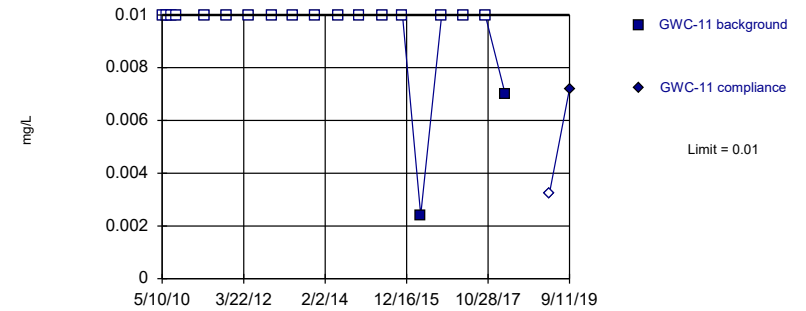
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



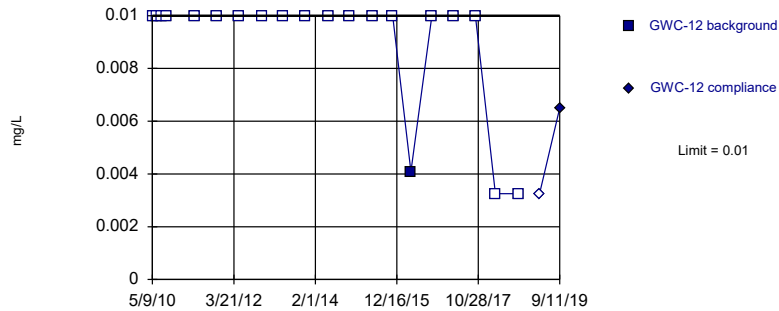
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



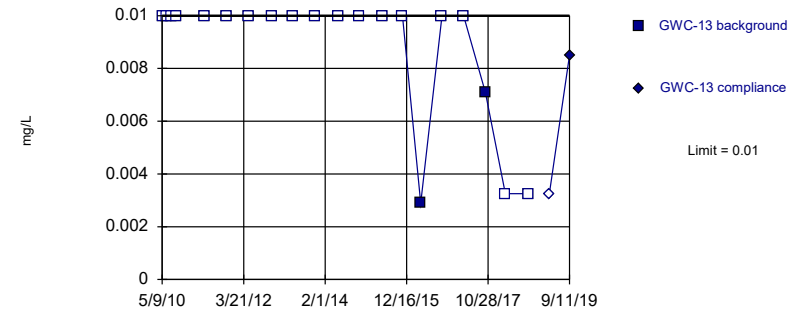
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



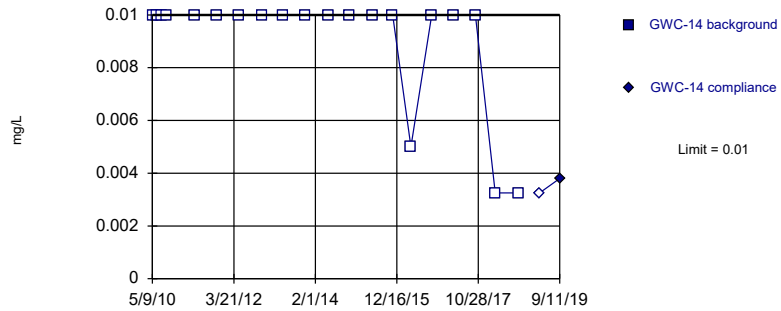
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



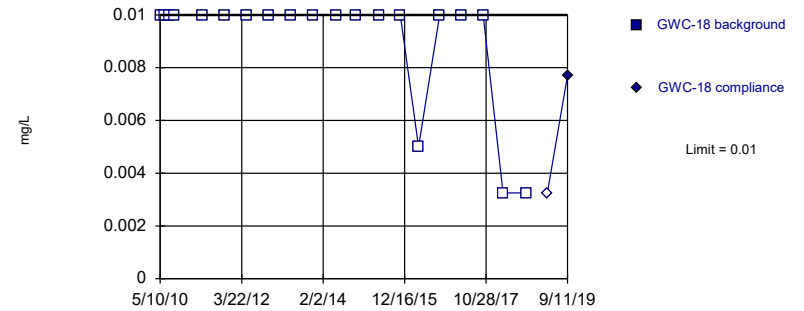
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



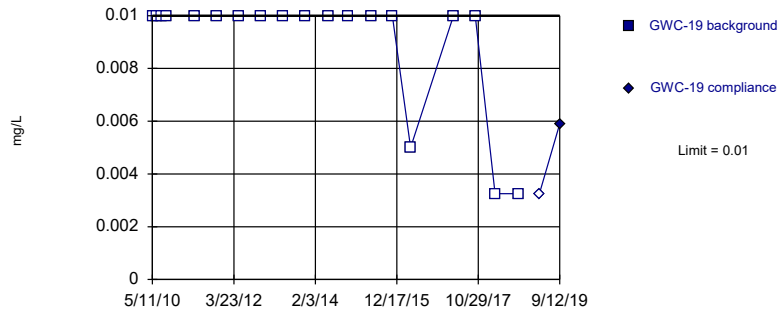
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



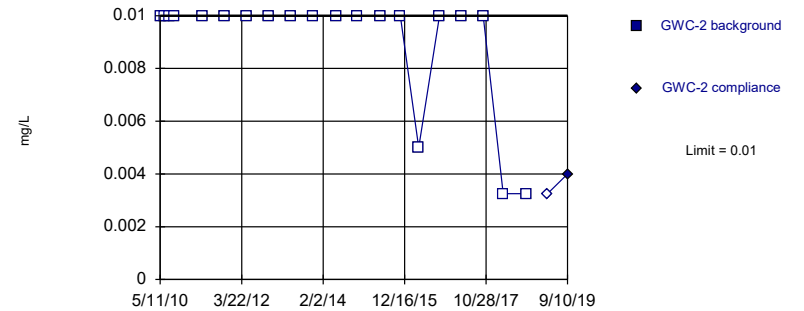
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

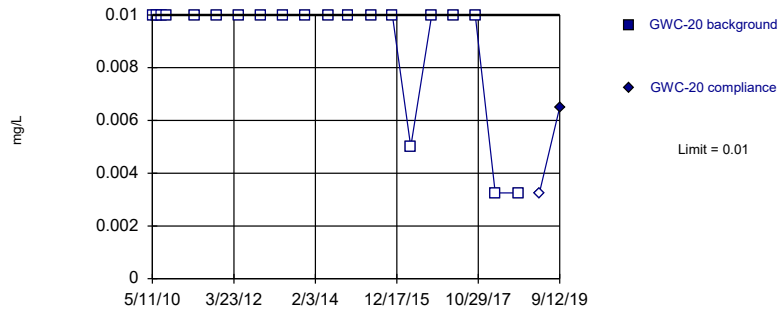
Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



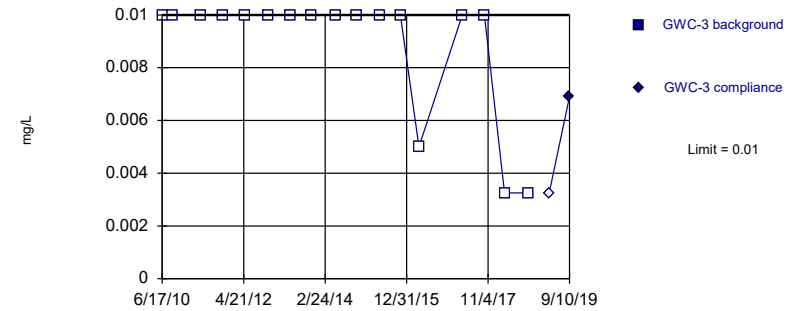
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



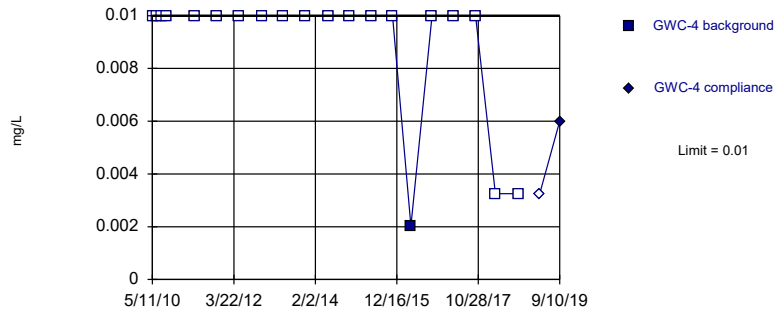
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 100% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



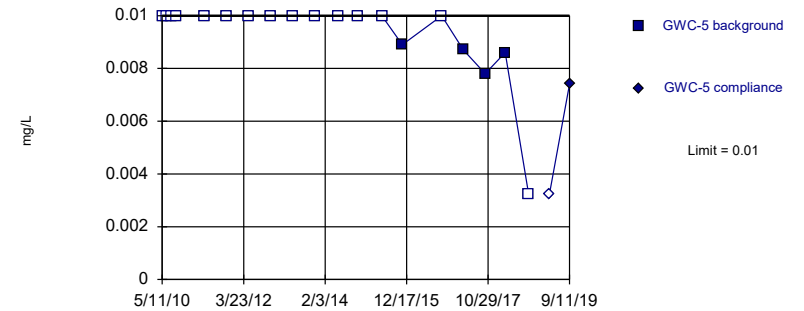
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



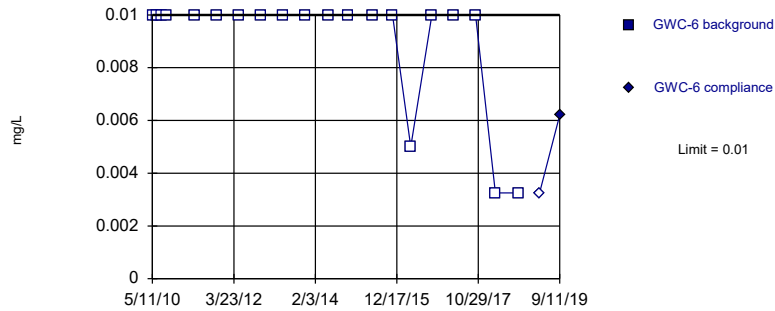
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



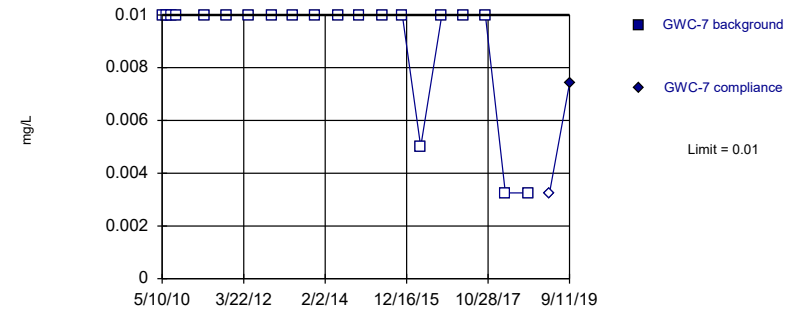
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



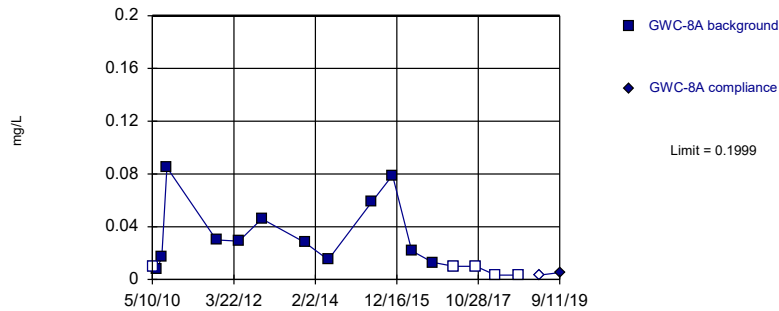
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



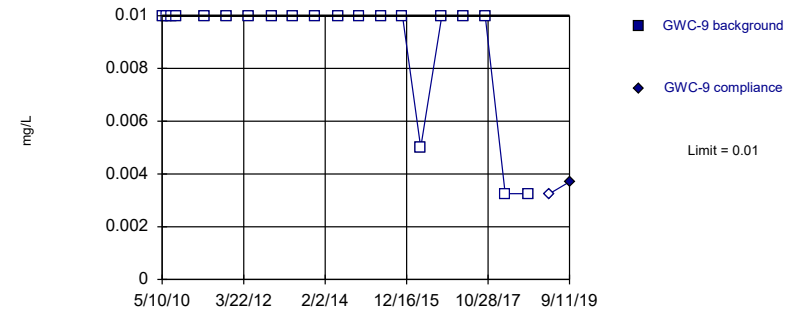
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-3.919, Std. Dev.=0.8305, n=17, 29.41% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9591, critical = 0.851. Kappa = 2.78 (c=14, w=17, 1 of 2, event alpha = 0.05132). Report alpha = 0.0002213.

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

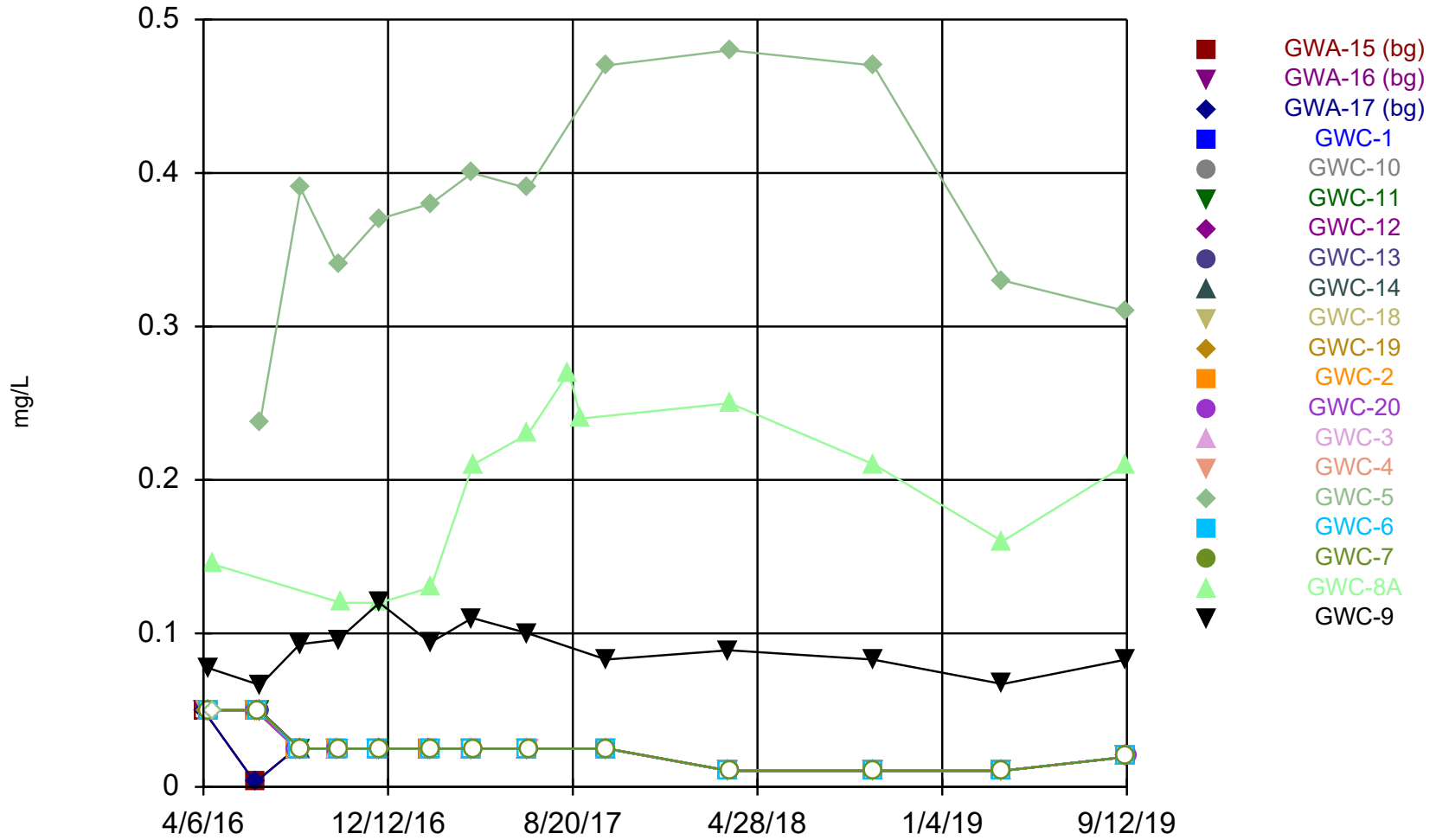
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 100% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Zinc Analysis Run 1/27/2020 9:51 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

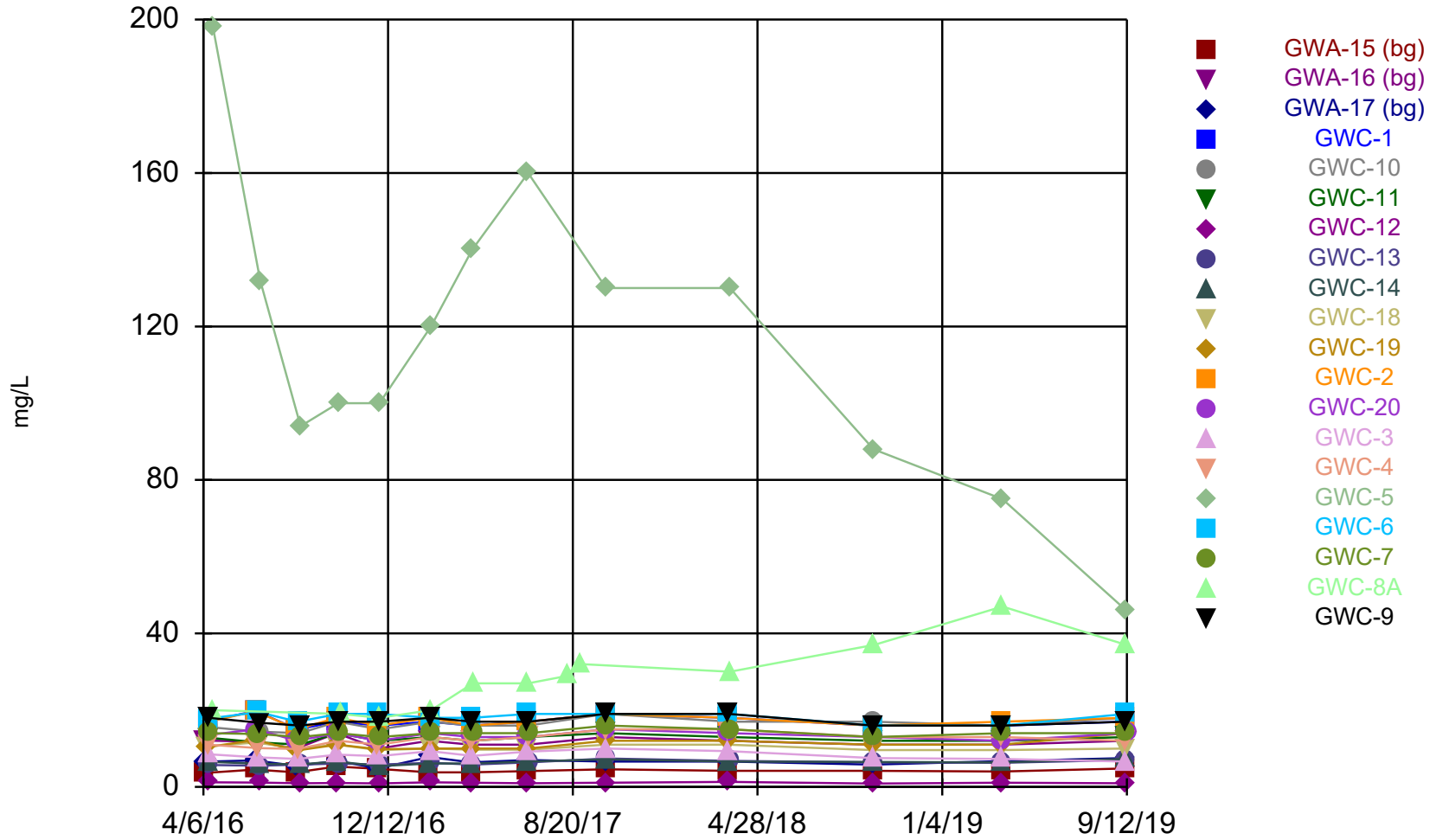
### Time Series



Constituent: Boron Analysis Run 1/27/2020 9:06 PM View: Cell 1 ApplIII Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

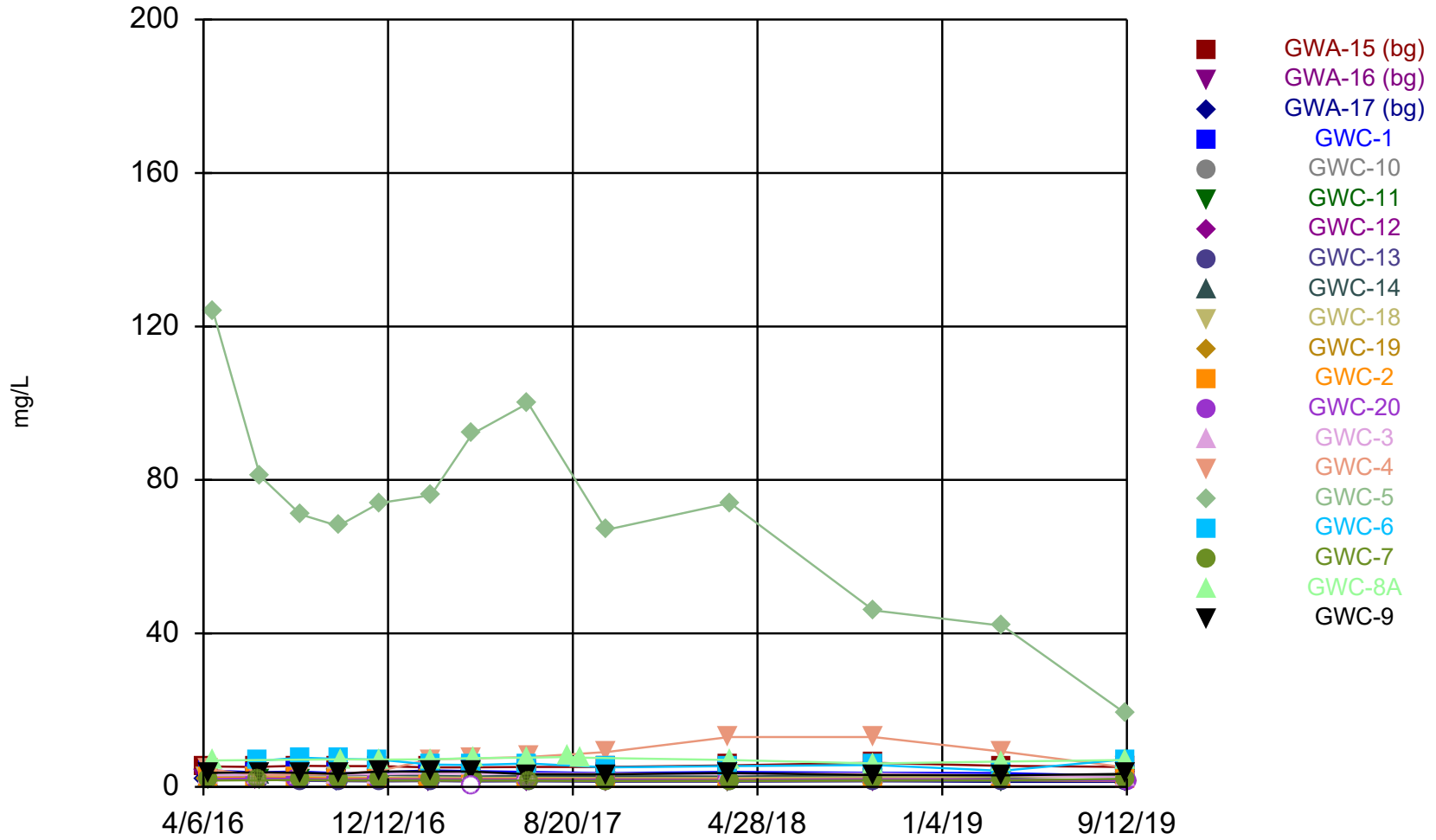
### Time Series



Constituent: Calcium Analysis Run 1/27/2020 9:06 PM View: Cell 1 ApplIII Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

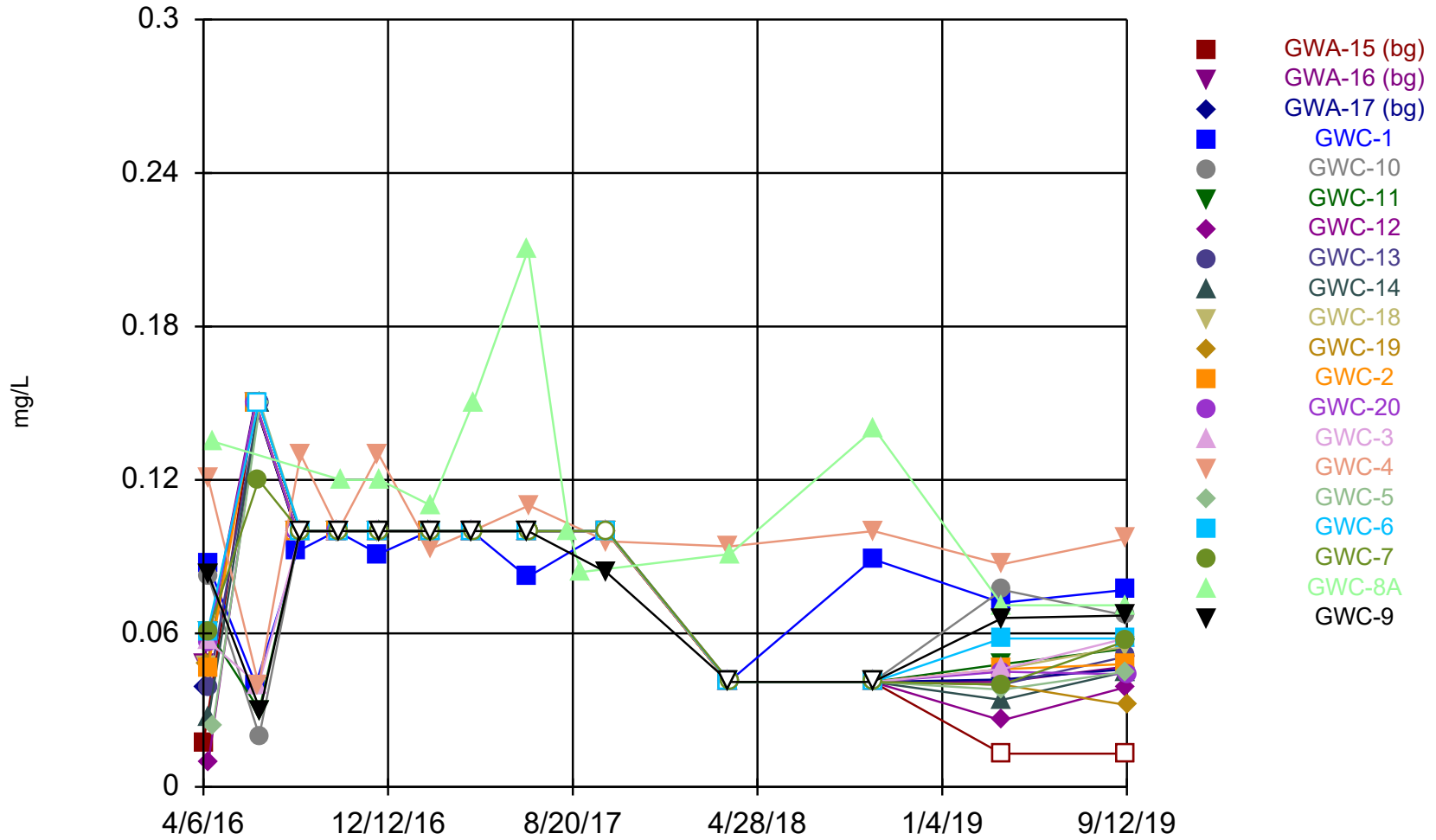
### Time Series



Constituent: Chloride Analysis Run 1/27/2020 9:06 PM View: Cell 1 AppIII Intra Well PLs

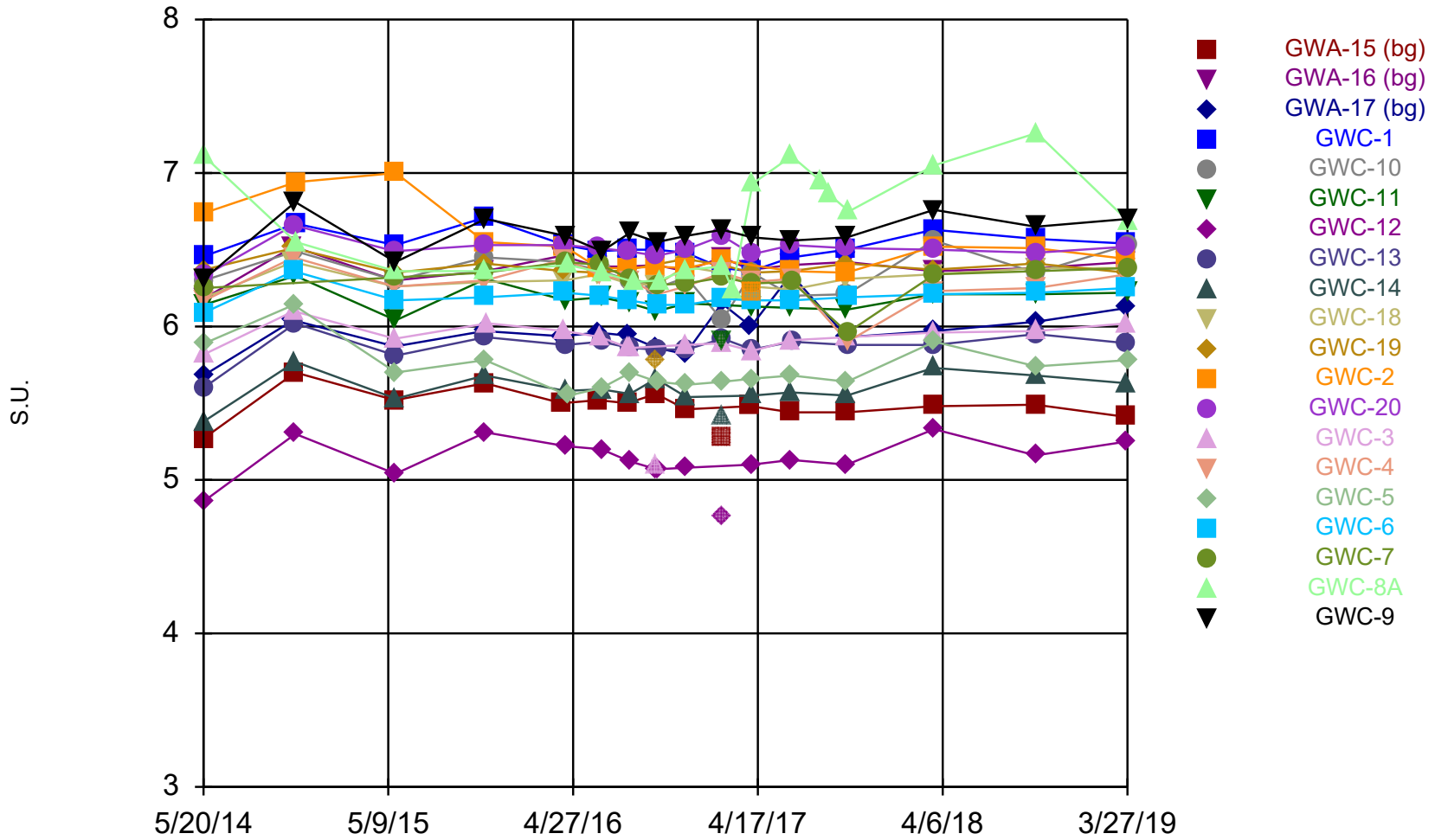
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



Constituent: Fluoride Analysis Run 1/27/2020 9:06 PM View: Cell 1 ApplIII Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

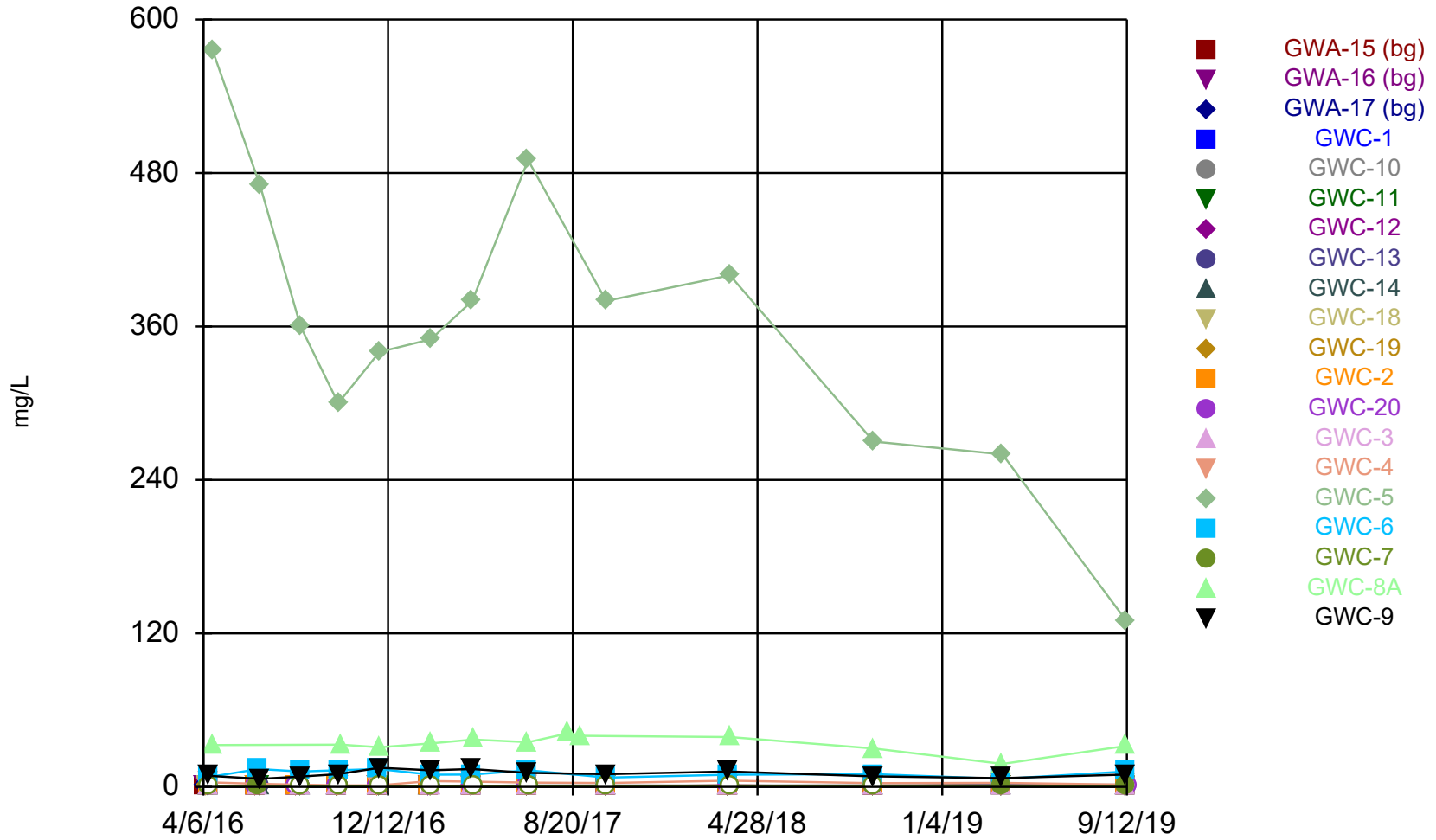
### Time Series



Constituent: pH Analysis Run 1/27/2020 9:06 PM View: Cell 1 ApplIII Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series

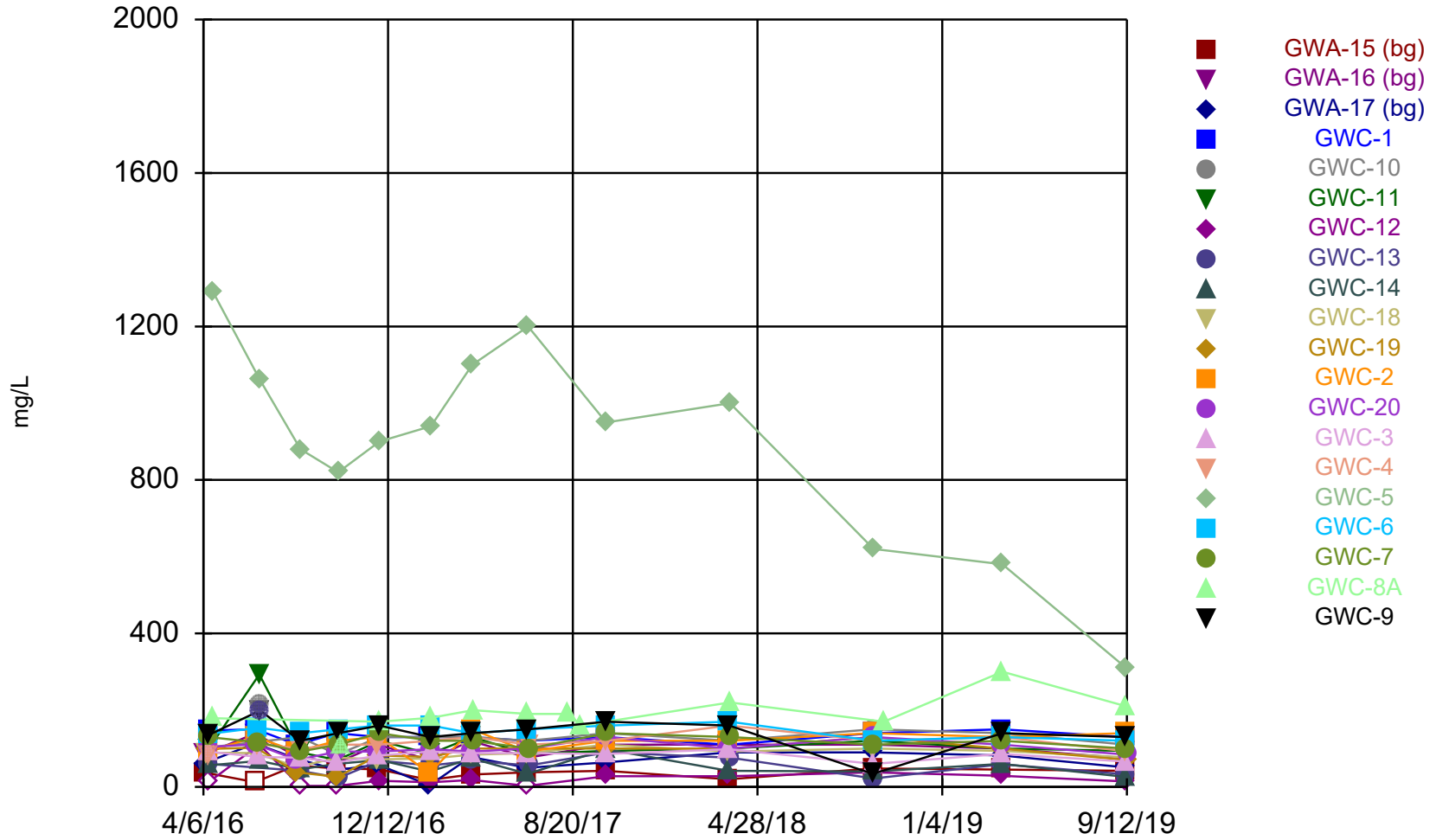


Constituent: Sulfate Analysis Run 1/27/2020 9:06 PM View: Cell 1 ApplIII Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF



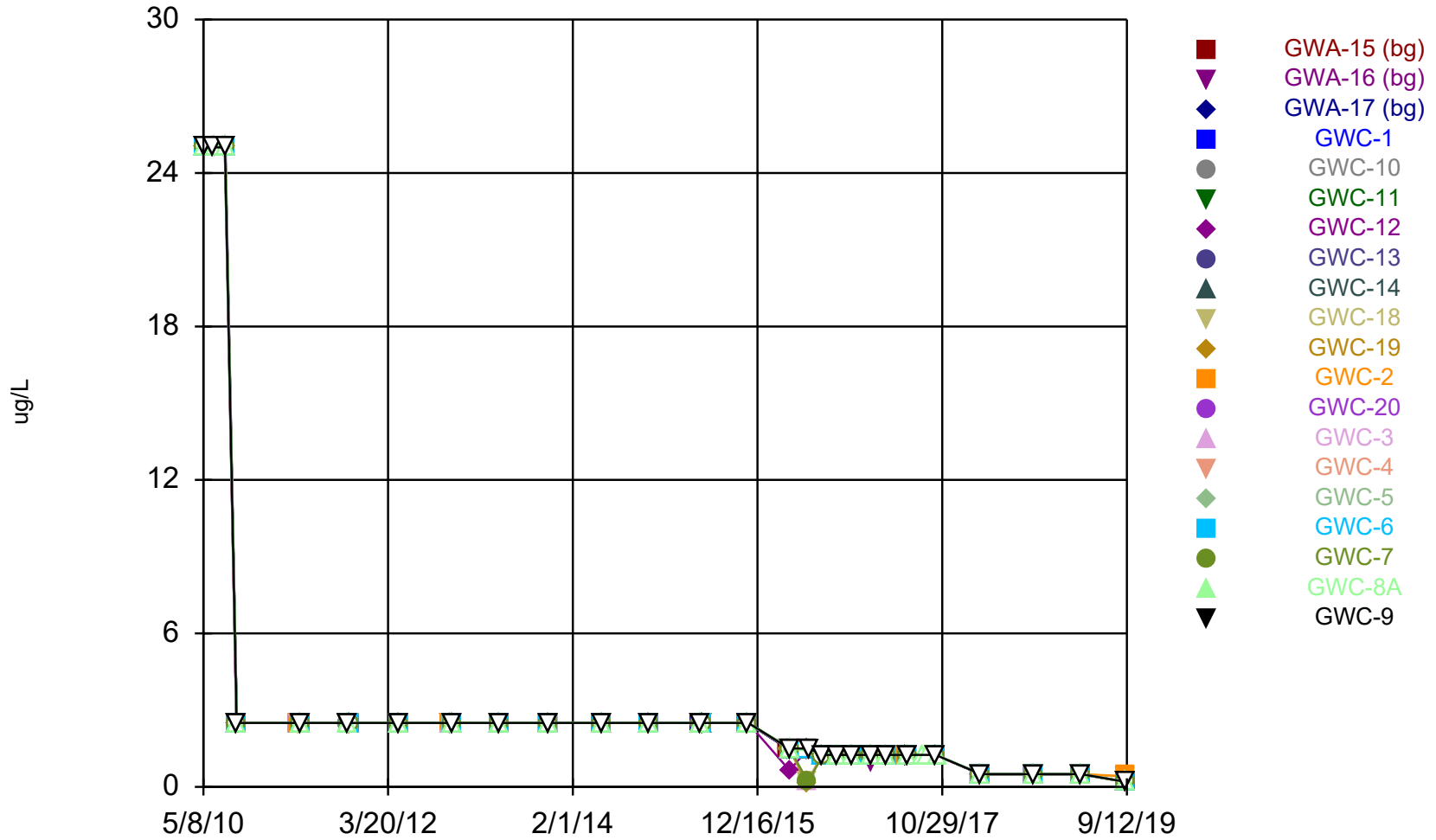
### Time Series



Constituent: Total Dissolved Solids Analysis Run 1/27/2020 9:06 PM View: Cell 1 AppIII Intra Well PLs

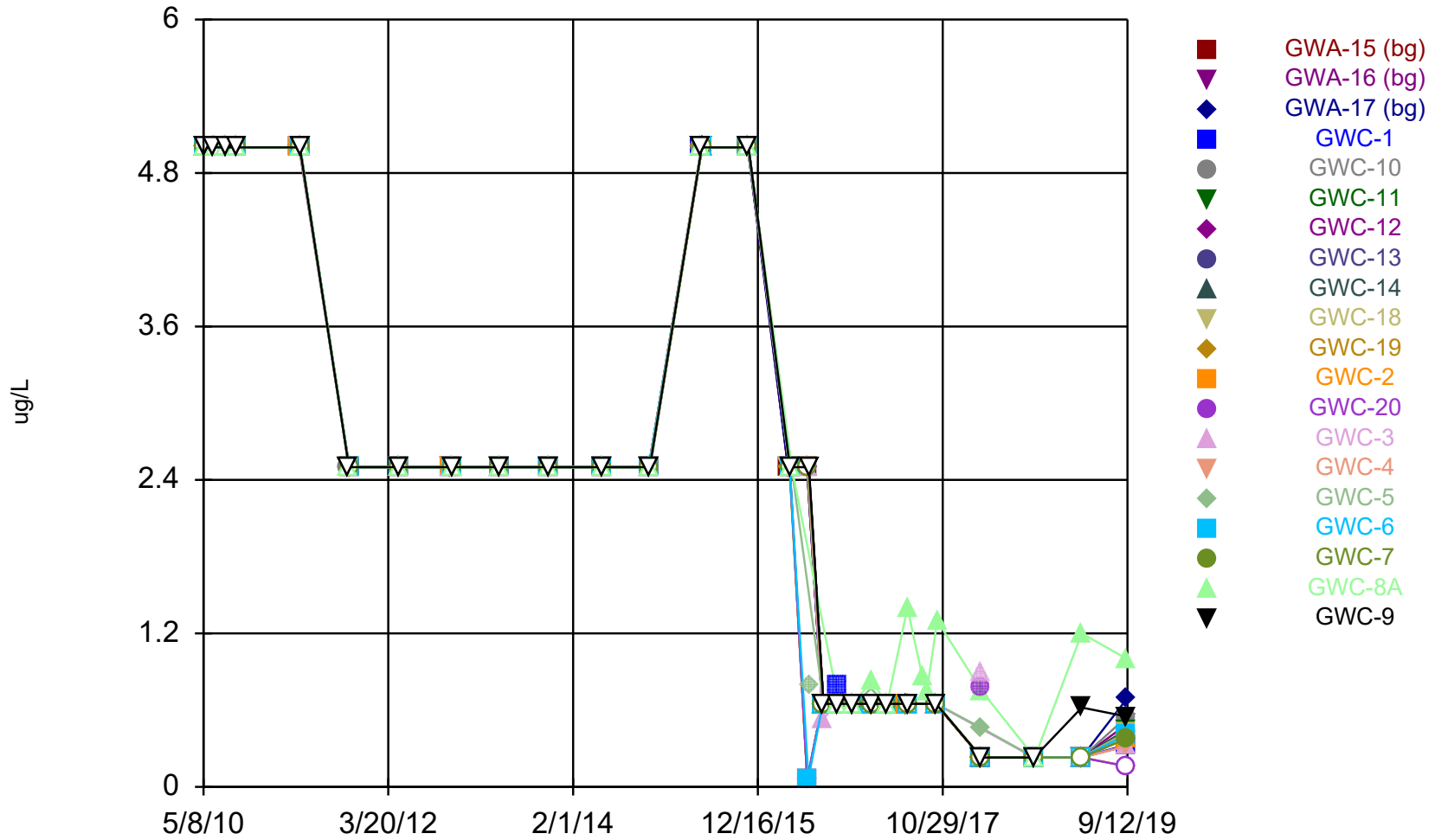
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



Constituent: Antimony, Total    Analysis Run 1/27/2020 9:10 PM    View: Cell 1 Intra Well PLs  
Scherer    Client: Golder Associates    Data: Scherer Cell 1 LF

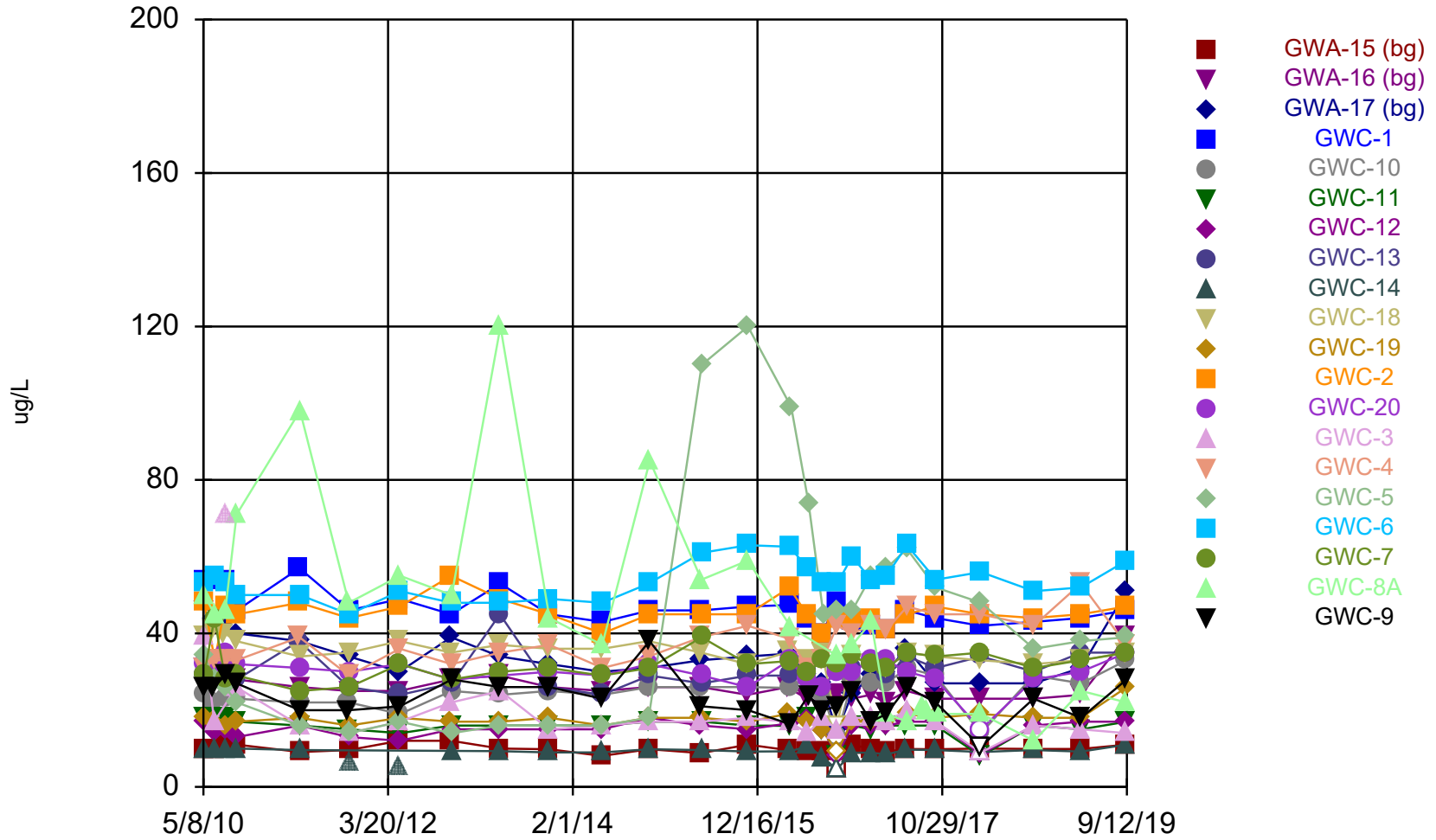
### Time Series



Constituent: Arsenic, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

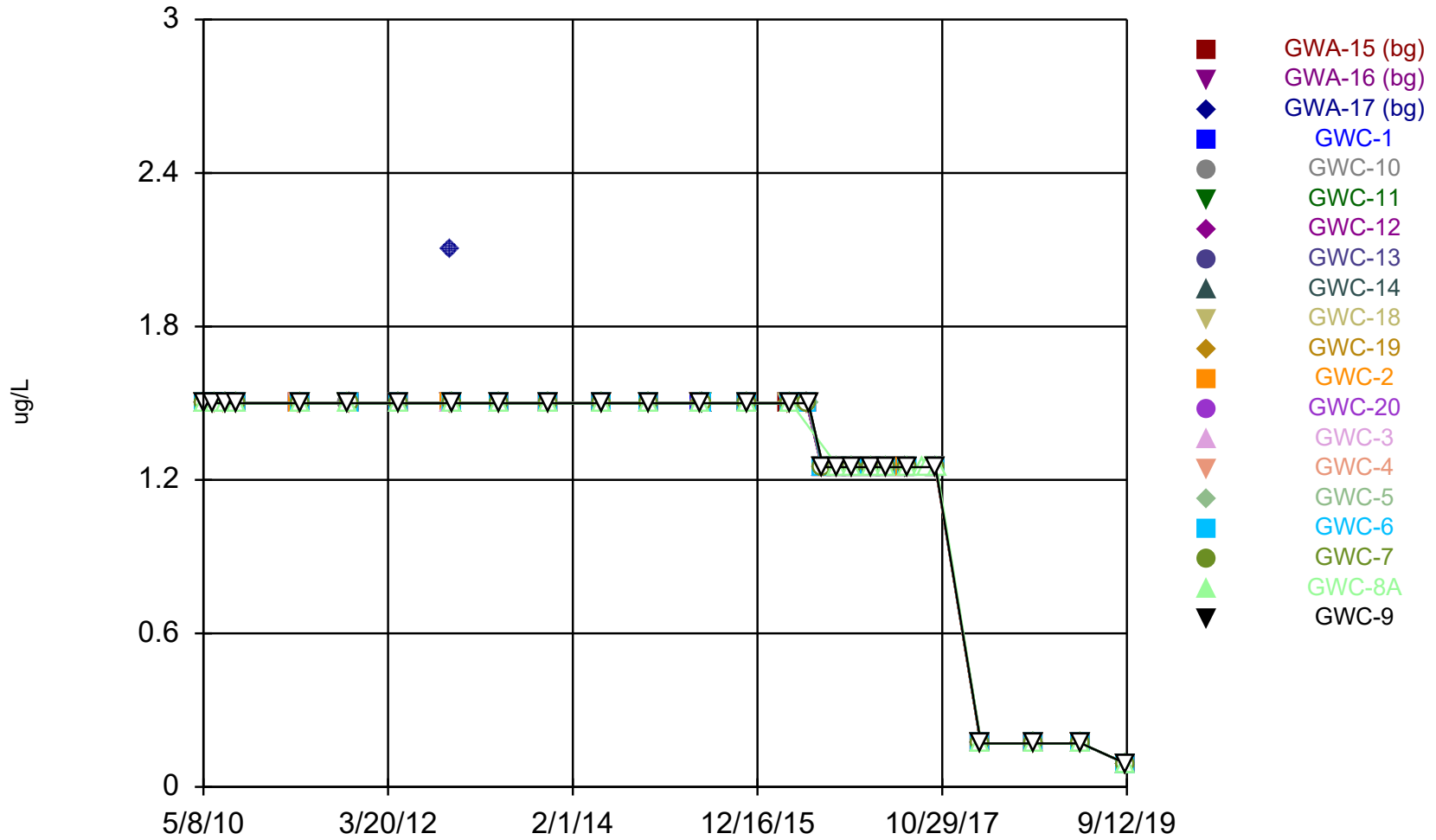
### Time Series



Constituent: Barium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

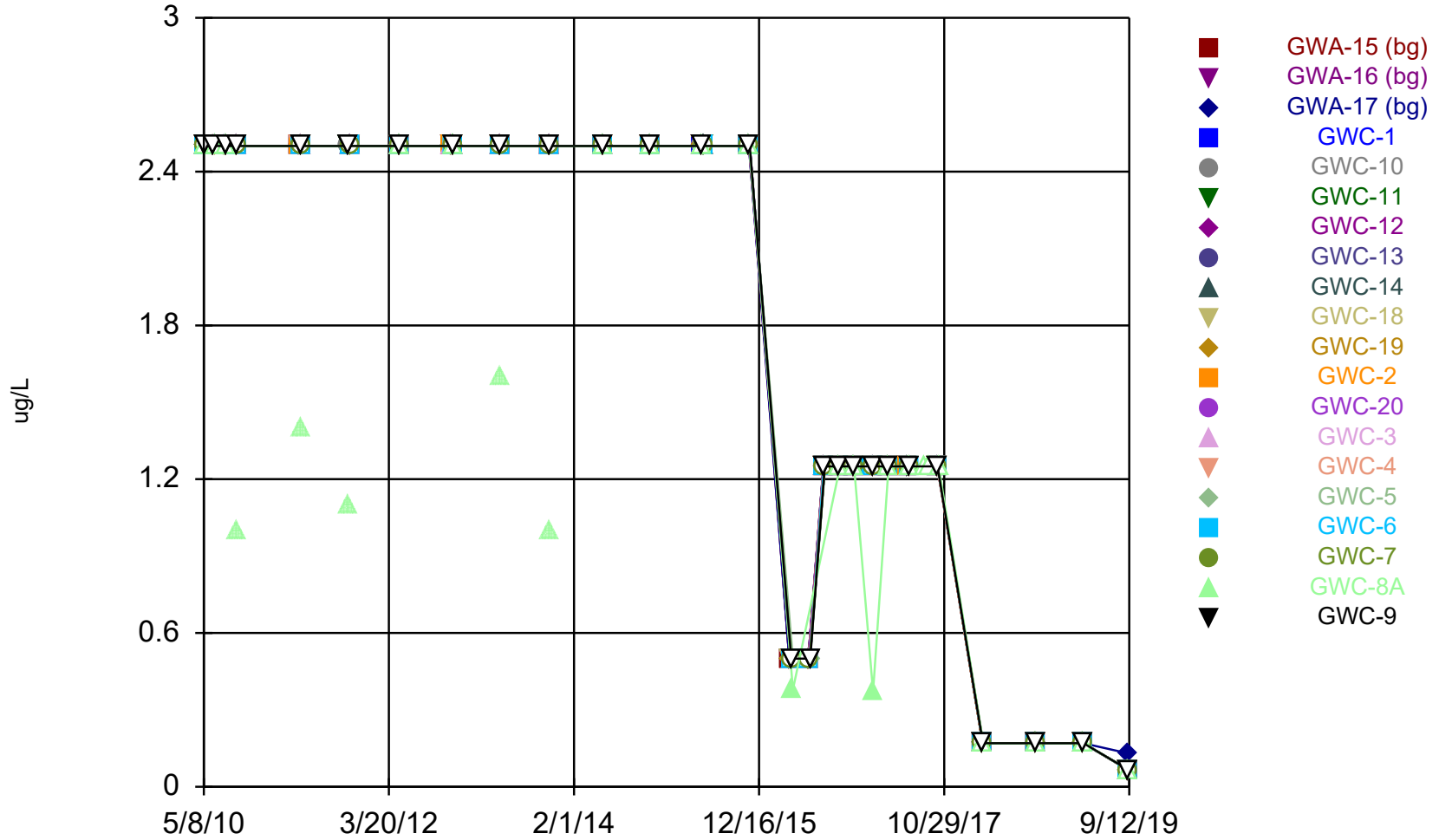
### Time Series



Constituent: Beryllium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

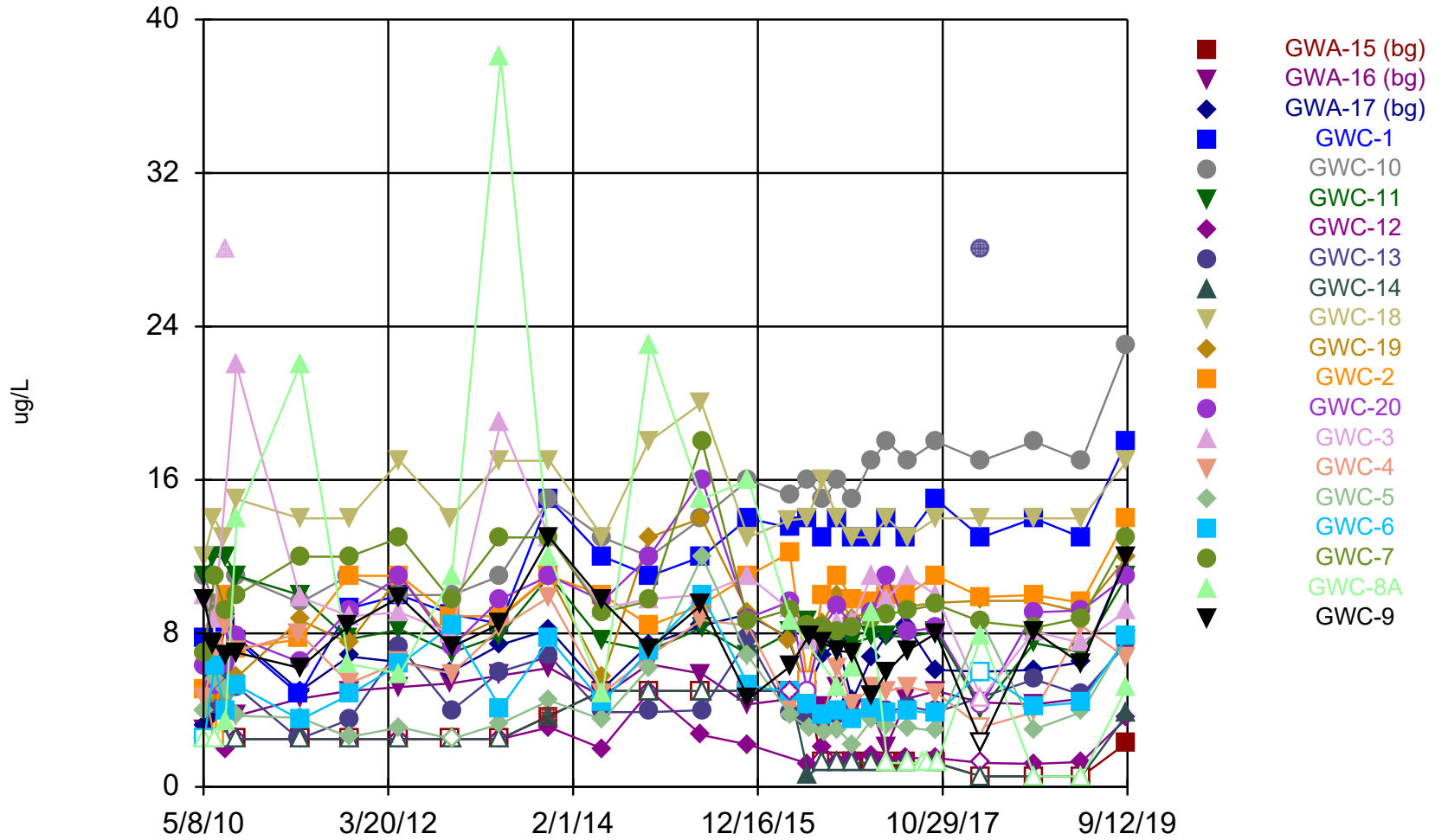
### Time Series



Constituent: Cadmium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

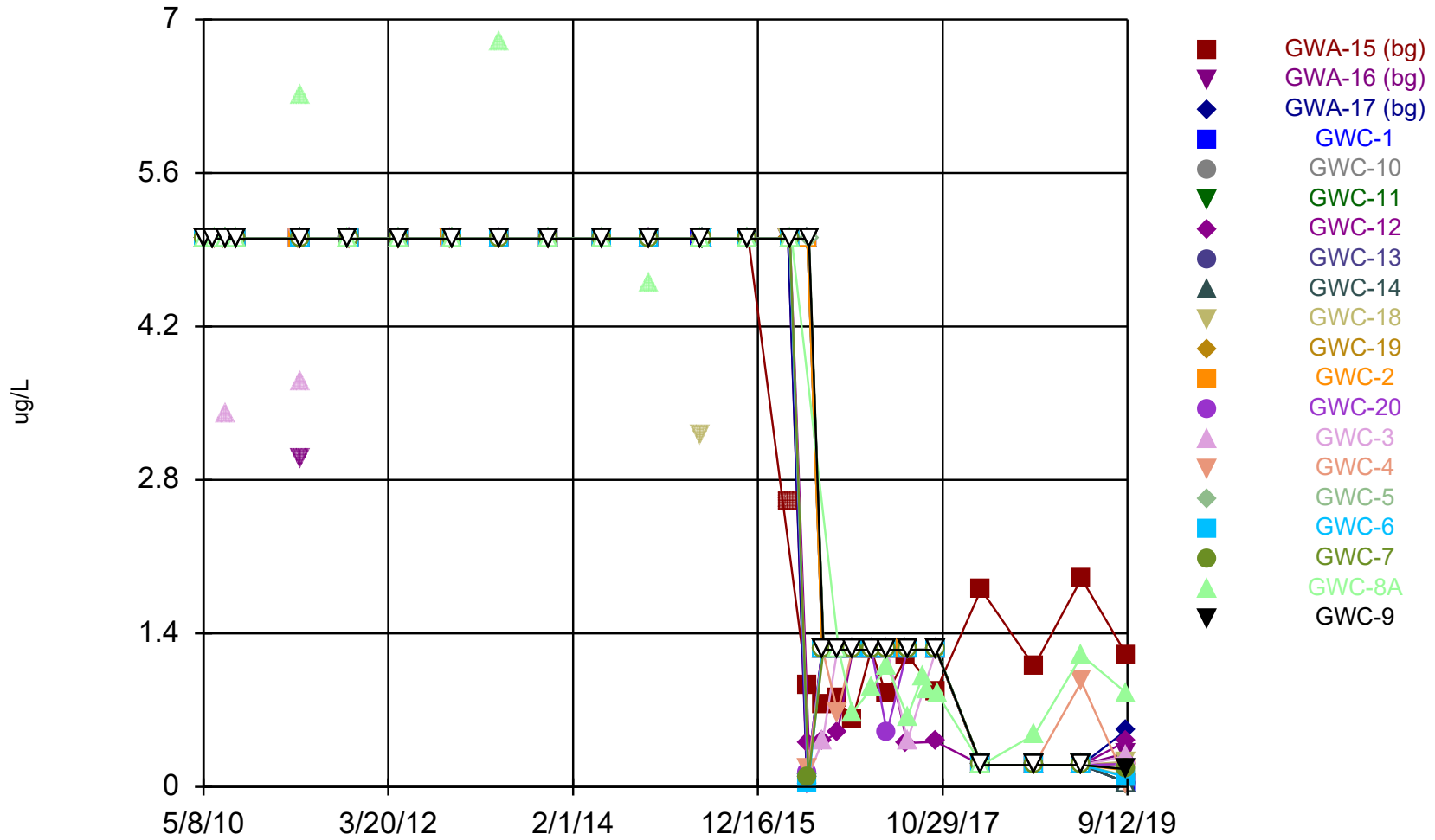
### Time Series



Constituent: Chromium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series

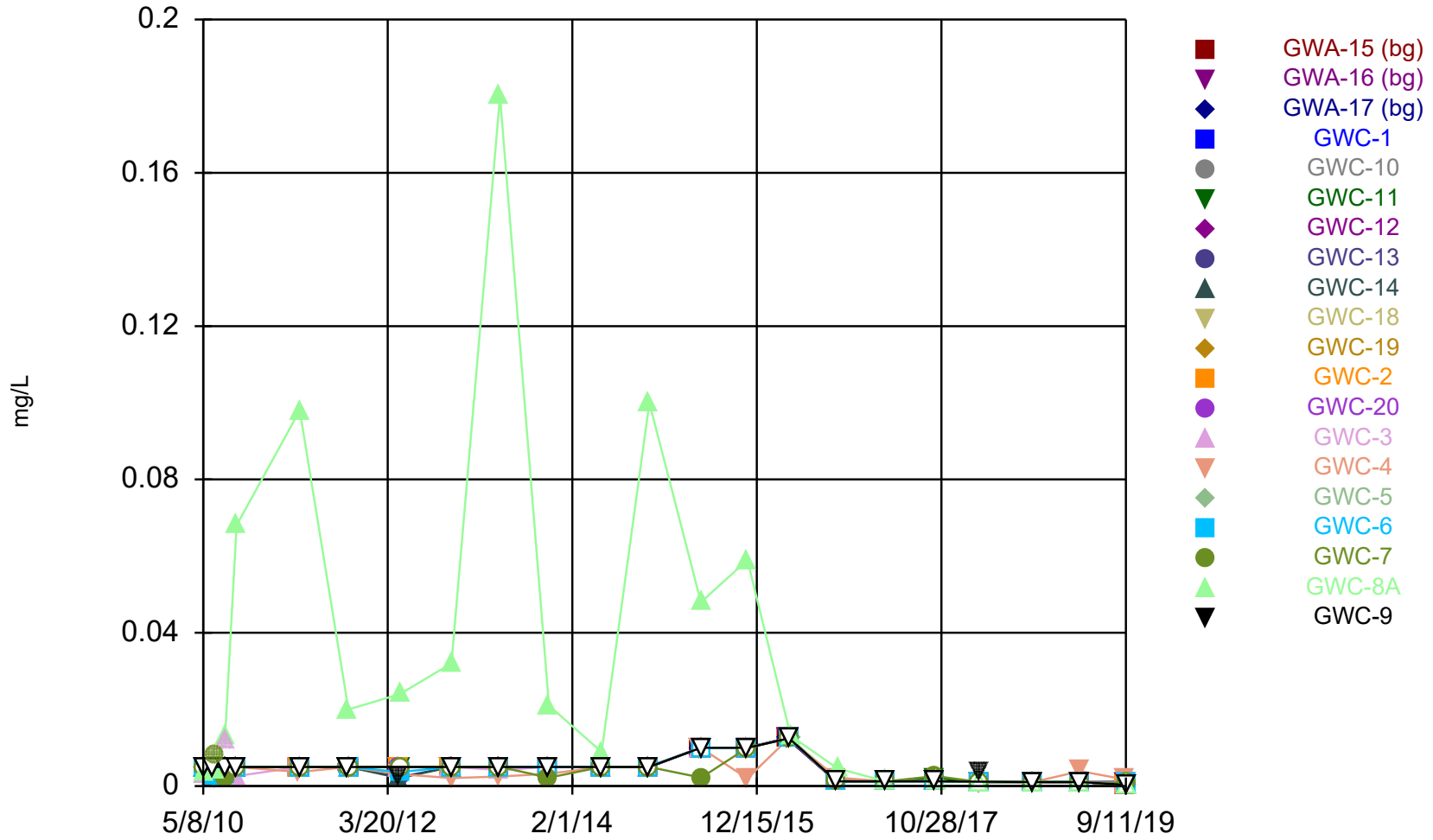


Constituent: Cobalt, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

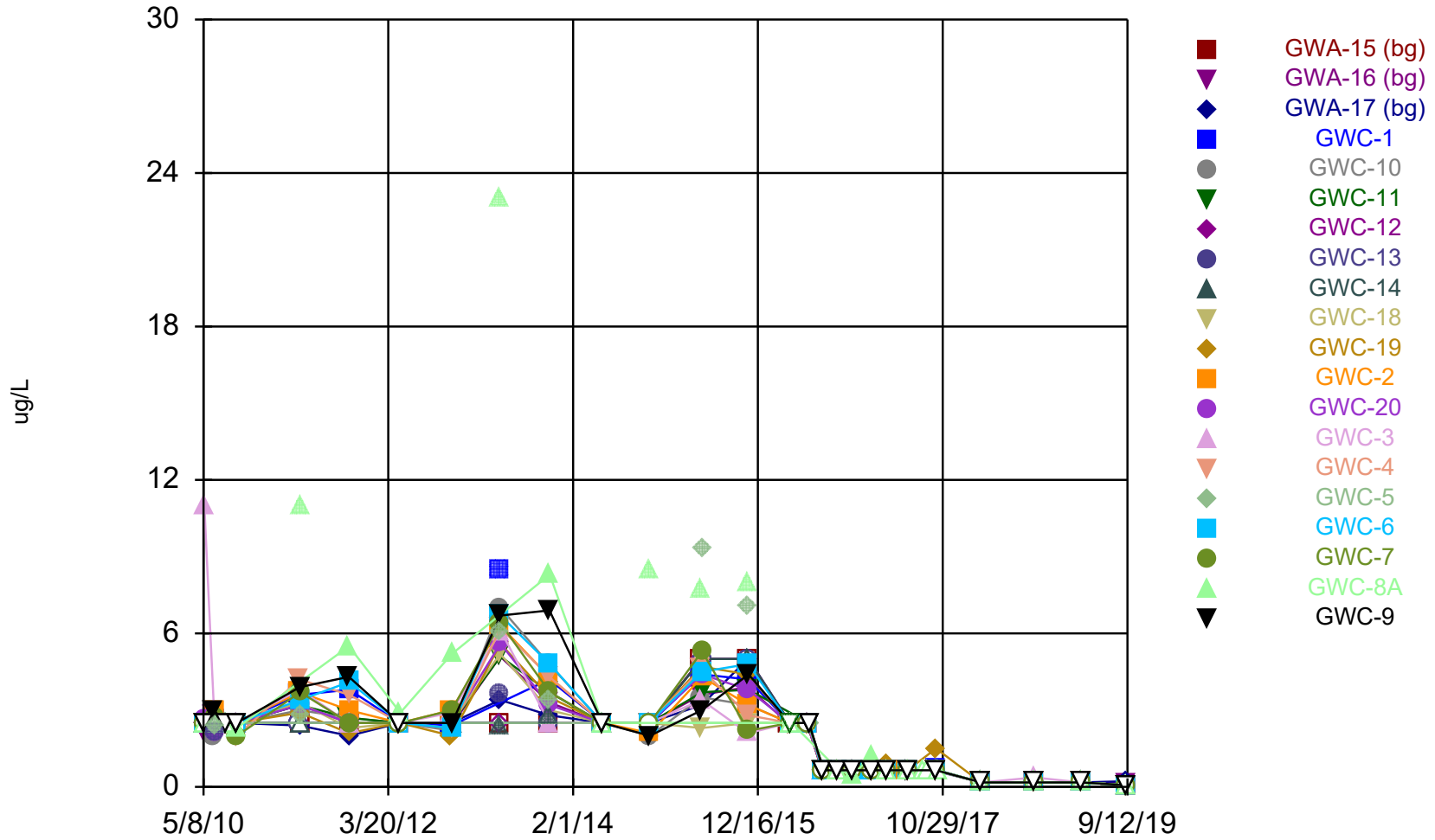


### Time Series



Constituent: Copper    Analysis Run 1/27/2020 9:10 PM    View: Cell 1 Intra Well PLs  
Scherer    Client: Golder Associates    Data: Scherer Cell 1 LF

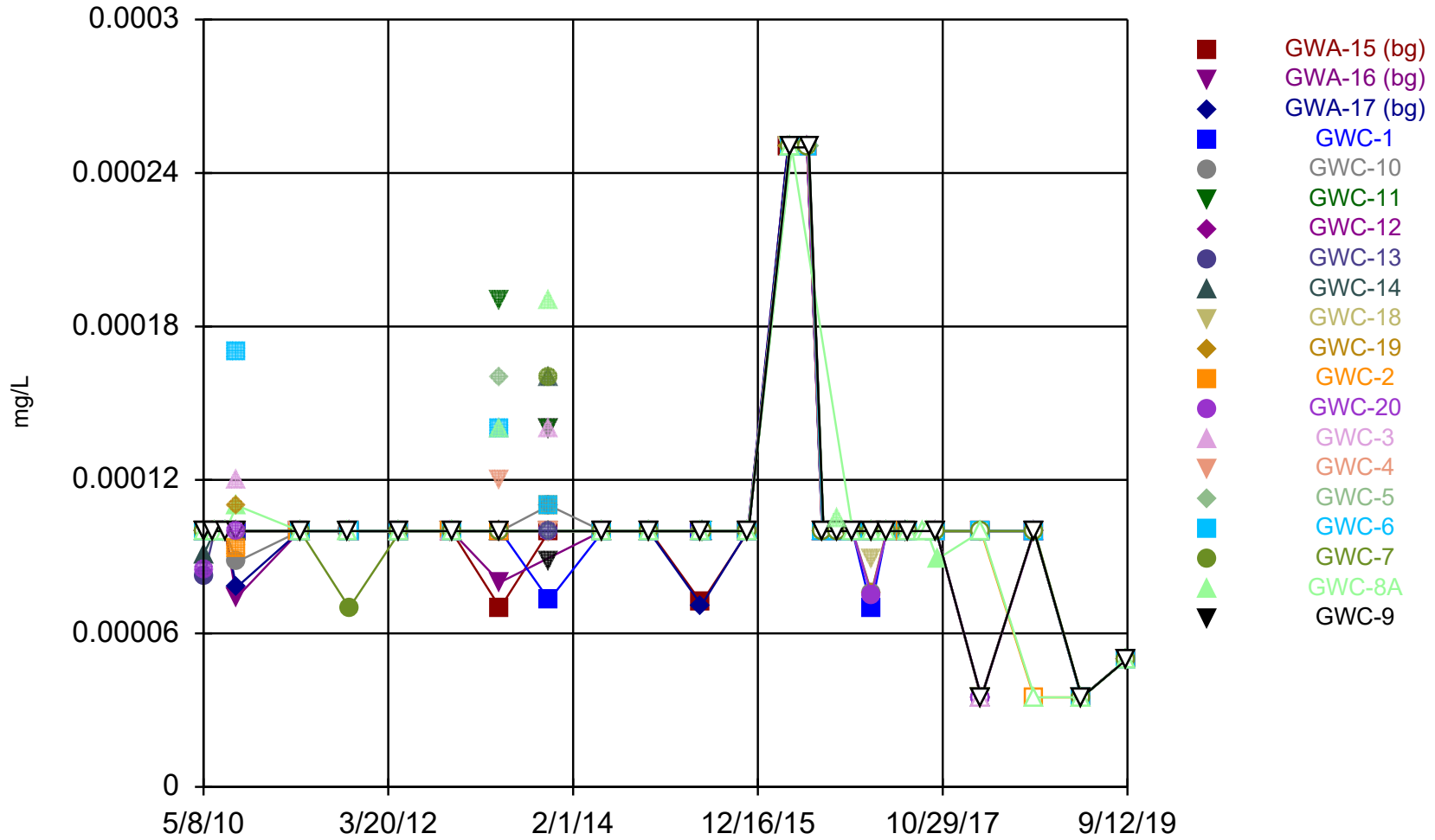
### Time Series



Constituent: Lead, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

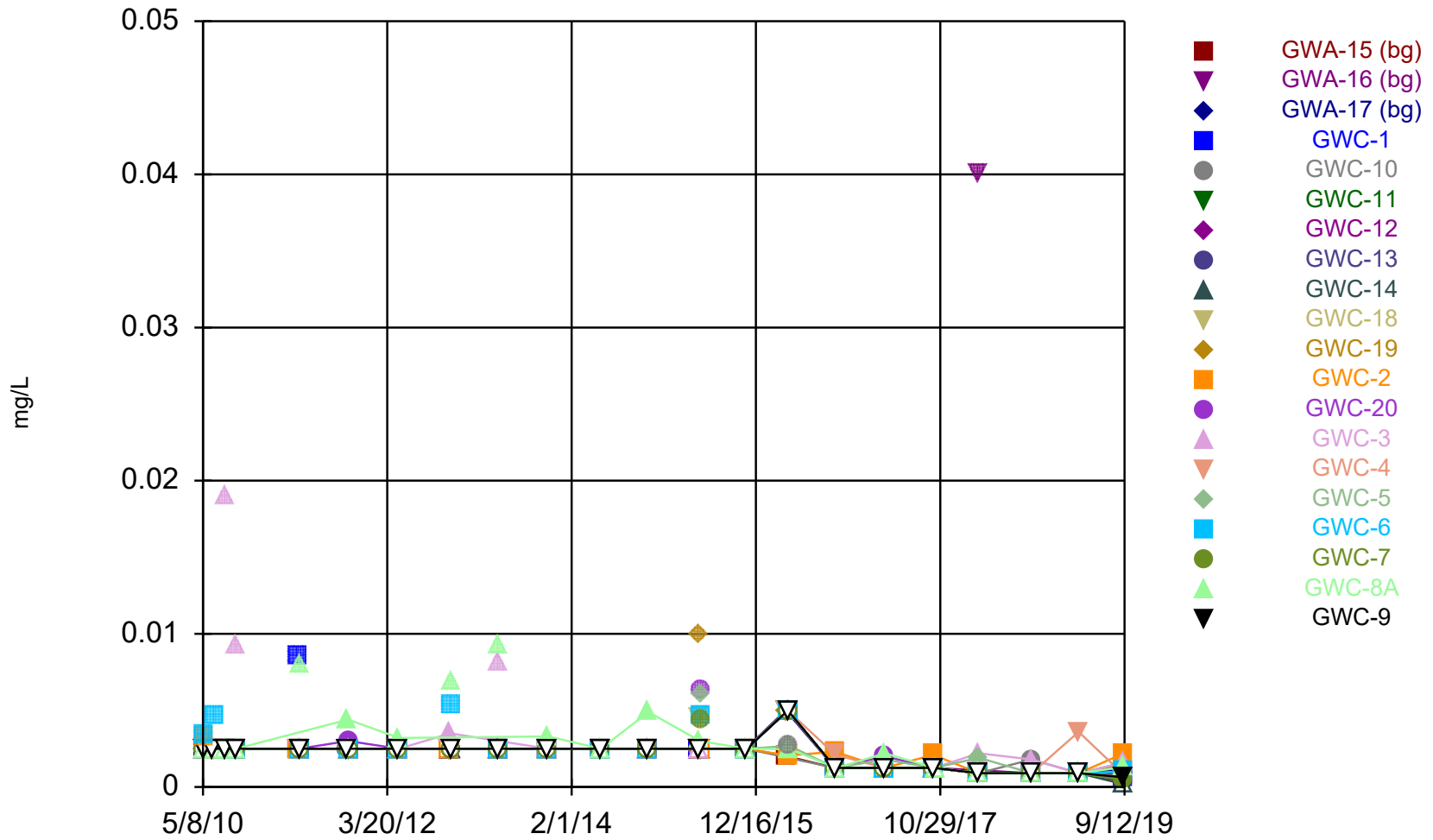
## Time Series



Constituent: Mercury Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

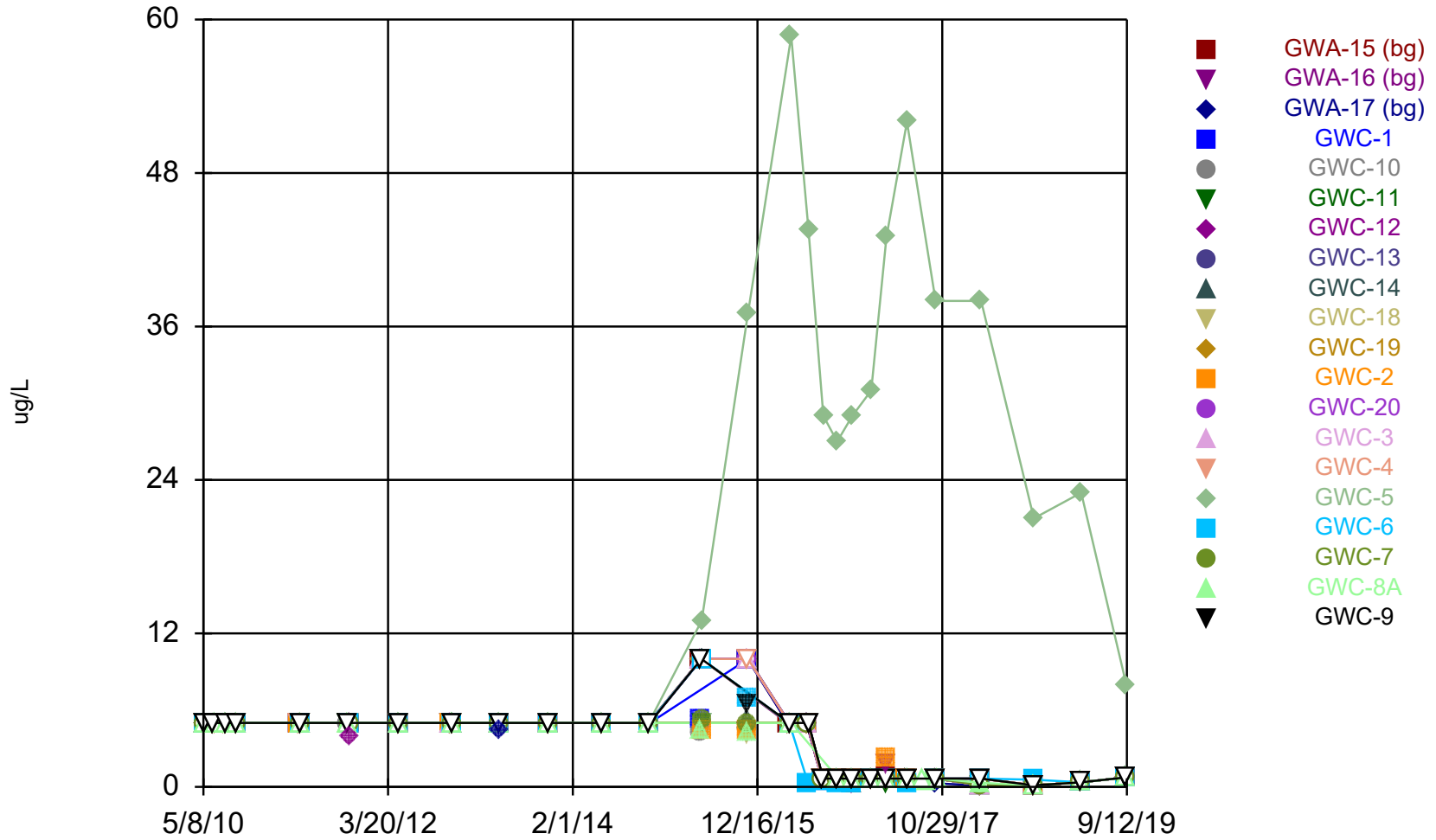
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series



Constituent: Nickel Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs  
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

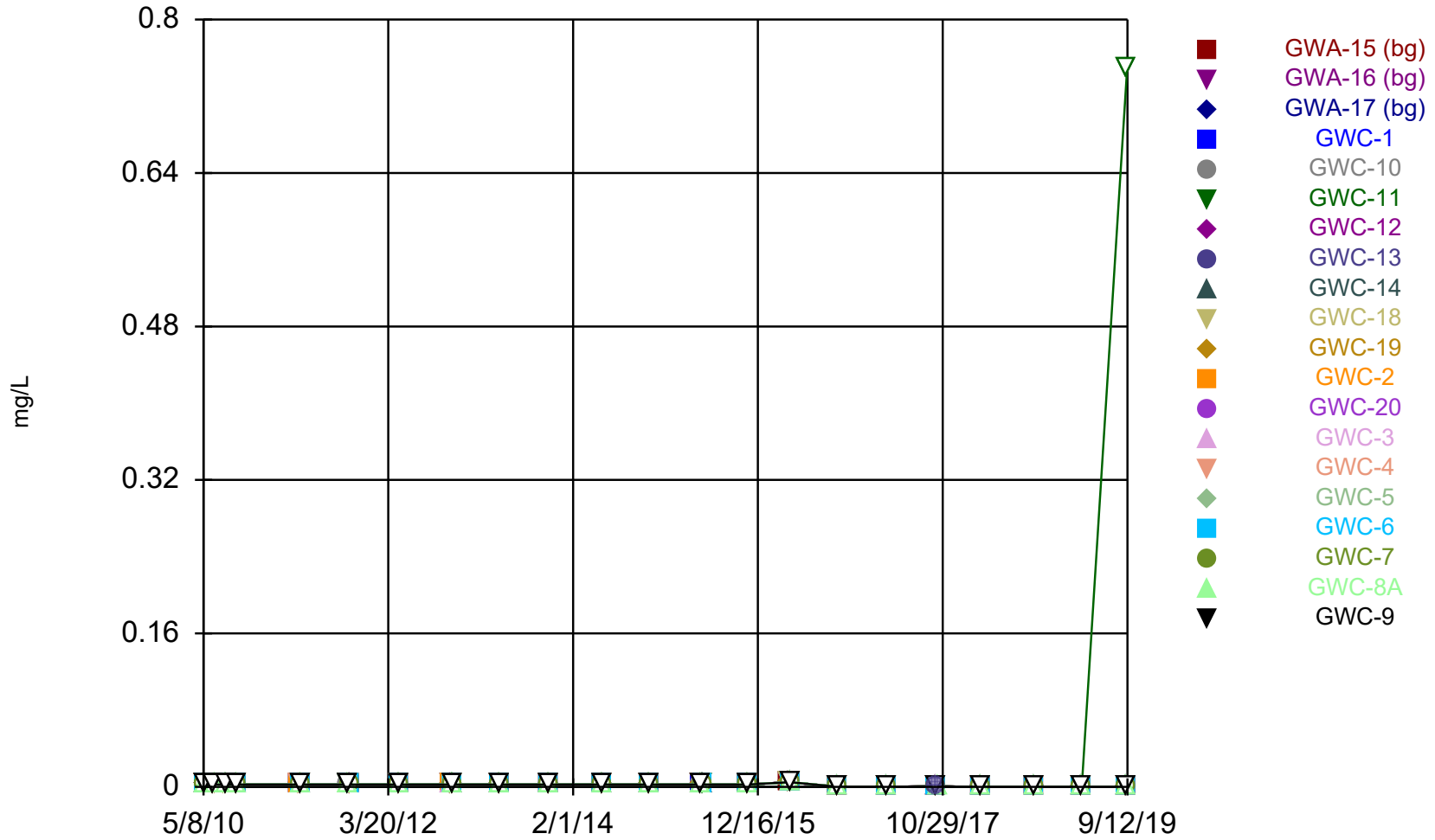
### Time Series



Constituent: Selenium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

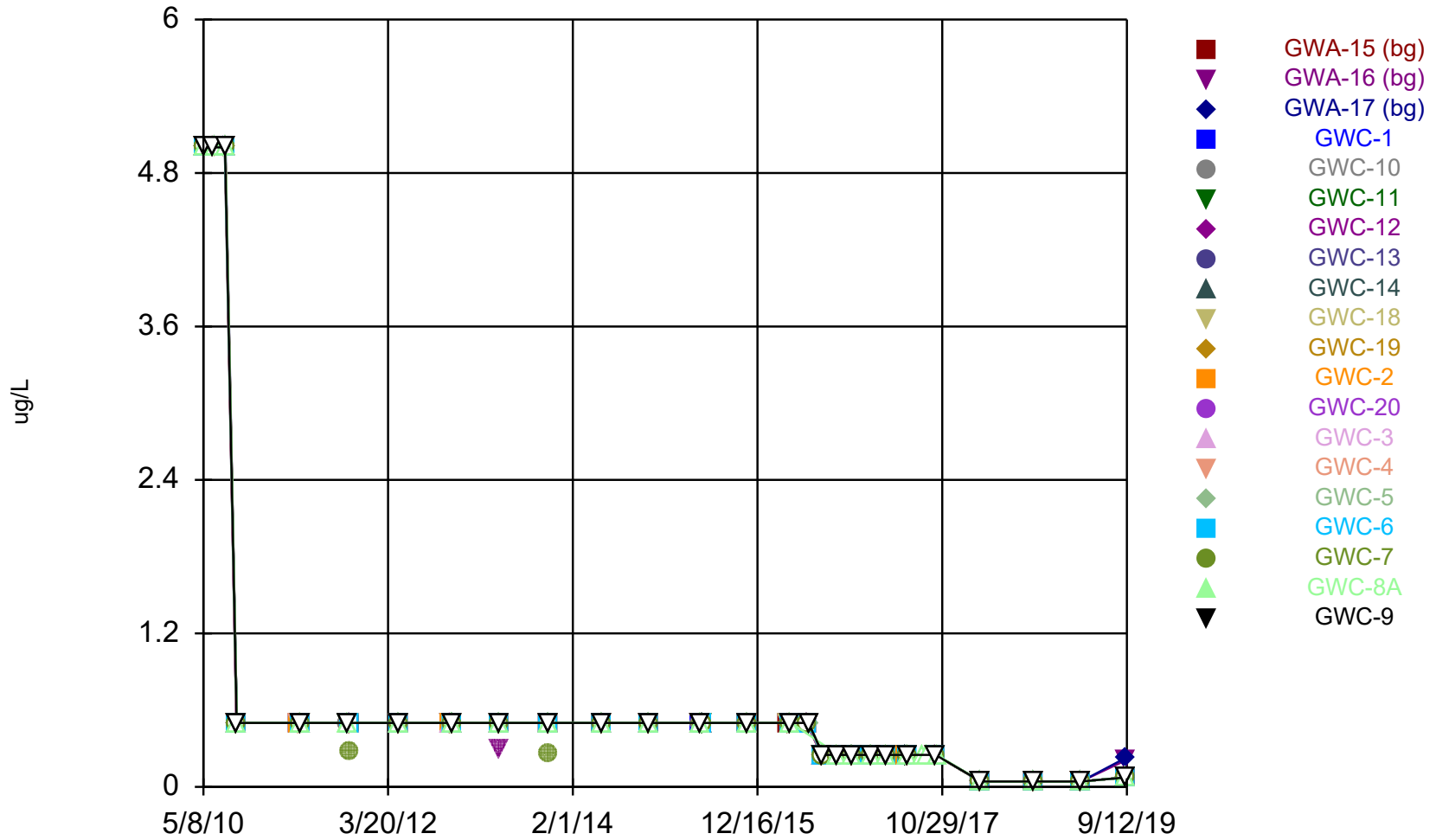
### Time Series



Constituent: Silver Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

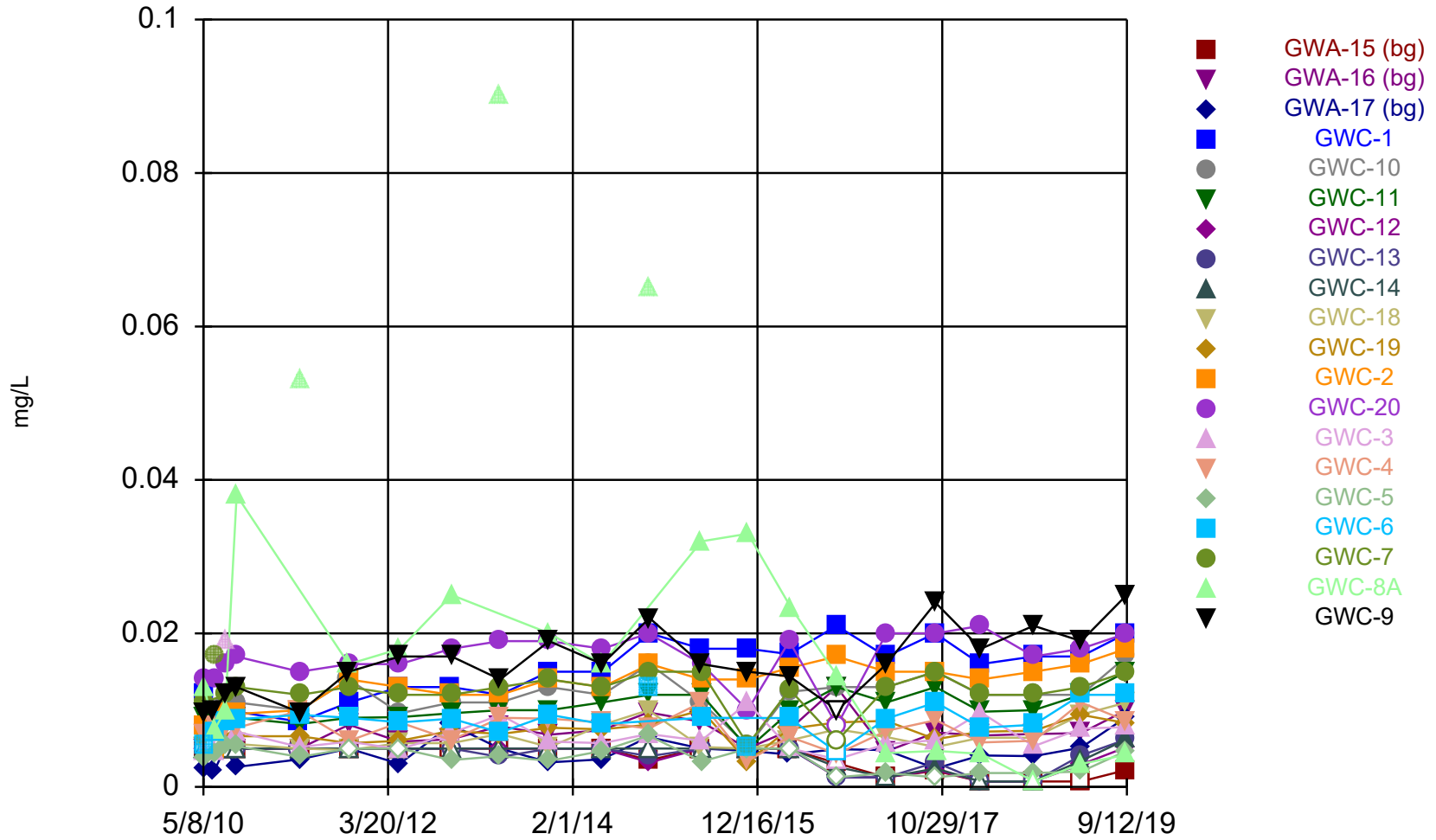
### Time Series



Constituent: Thallium, Total Analysis Run 1/27/2020 9:10 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

### Time Series

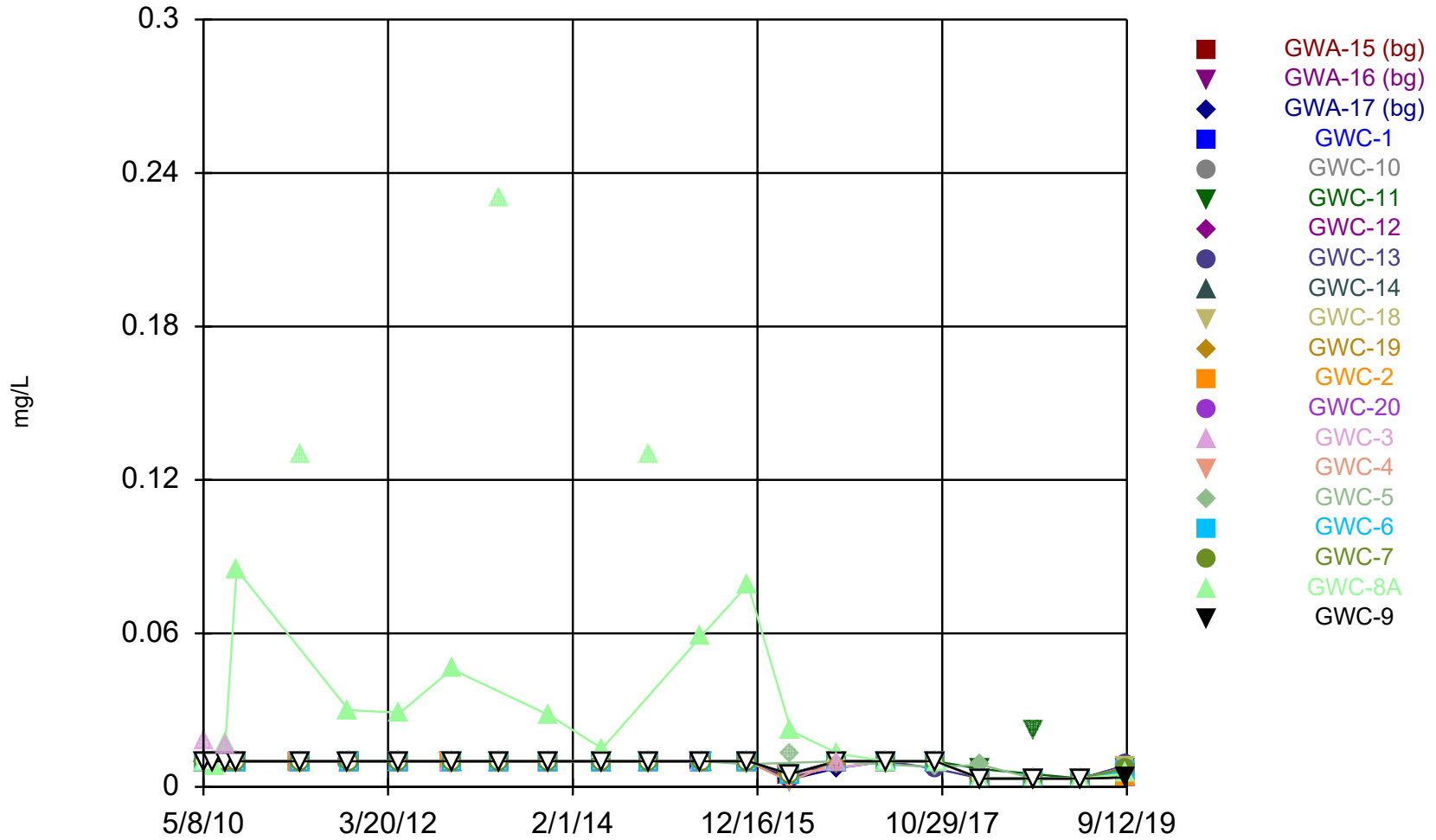


Constituent: Vanadium Analysis Run 1/27/2020 9:11 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF



## Time Series



Constituent: Zinc Analysis Run 1/27/2020 9:11 PM View: Cell 1 Intra Well PLs

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

**STATISTICAL ANALYSES REPORTS**

# PAC ASH CELL

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWA-21	0.05	n/a	9/12/2019	0.053	Yes	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Calcium (mg/L)	GWA-47	11.8	n/a	9/12/2019	12	Yes	11	0	None	x^4	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWC-29	11.14	n/a	9/12/2019	12	Yes	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWC-52	16.1	n/a	9/12/2019	17	Yes	9	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-46	4.044	n/a	9/12/2019	4.3	Yes	11	0	None	No	0.001504	Param Intra 1 of 2
pH (S.U.)	GWC-29	5.923	5.7	9/12/2019	5.98	Yes	13	0	None	No	0.000752	Param Intra 1 of 2
Sulfate (mg/L)	GWC-29	3.125	n/a	9/12/2019	3.2	Yes	11	9.091	None	x^2	0.001504	Param Intra 1 of 2
Sulfate (mg/L)	GWC-52	24.52	n/a	9/12/2019	34	Yes	10	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-21	109.9	n/a	9/12/2019	130	Yes	11	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-45	336.6	n/a	9/12/2019	340	Yes	11	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-46	86.78	n/a	9/12/2019	97	Yes	11	9.091	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-49	118.7	n/a	9/12/2019	120	Yes	10	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-51	102.5	n/a	9/12/2019	110	Yes	10	0	None	No	0.001504	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
<b>Boron (mg/L)</b>	<b>GWA-21</b>	<b>0.05</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.053</b>	<b>Yes</b>	<b>11</b>	<b>90.91</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01276</b>	<b>NP Intra (NDs) 1 of 2</b>
Boron (mg/L)	GWA-22	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-45	1.132	n/a	9/12/2019	0.91	No	11	0	None	No	0.001504	Param Intra 1 of 2
Boron (mg/L)	GWA-46	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-47	0.05	n/a	9/12/2019	0.0195ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-48	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-49	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-29	0.05	n/a	9/12/2019	0.0195ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-50	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-51	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-52	0.05	n/a	9/12/2019	0.0195ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-53	1.129	n/a	9/12/2019	0.94	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWA-21	11.64	n/a	9/12/2019	8.8	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWA-22	9.51	n/a	9/12/2019	6.1	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWA-45	46.4	n/a	9/12/2019	36	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWA-46	7.033	n/a	9/12/2019	5.7	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWA-47</b>	<b>11.8</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>12</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>x^4</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWA-48	14.23	n/a	9/12/2019	13	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWA-49	15.34	n/a	9/12/2019	14	No	10	0	None	No	0.001504	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWC-29</b>	<b>11.14</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>12</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWC-50	8.105	n/a	9/12/2019	7.5	No	11	0	None	No	0.001504	Param Intra 1 of 2
Calcium (mg/L)	GWC-51	7.814	n/a	9/12/2019	7.1	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Calcium (mg/L)</b>	<b>GWC-52</b>	<b>16.1</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>17</b>	<b>Yes</b>	<b>9</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Calcium (mg/L)	GWC-53	21.17	n/a	9/12/2019	18	No	11	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-21	4.383	n/a	9/12/2019	3.4	No	11	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-22	5.531	n/a	9/12/2019	2.5	No	11	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-45	10	n/a	9/12/2019	10	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
<b>Chloride (mg/L)</b>	<b>GWA-46</b>	<b>4.044</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>4.3</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Chloride (mg/L)	GWA-47	1.753	n/a	9/12/2019	1.4	No	11	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-48	1.991	n/a	9/12/2019	1.7	No	10	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWA-49	2.432	n/a	9/12/2019	1.9	No	11	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWC-29	4.257	n/a	9/12/2019	3	No	10	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWC-50	2.1	n/a	9/12/2019	1.8	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
Chloride (mg/L)	GWC-51	7.083	n/a	9/12/2019	6.8	No	10	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWC-52	8.651	n/a	9/12/2019	7.7	No	10	0	None	No	0.001504	Param Intra 1 of 2
Chloride (mg/L)	GWC-53	12	n/a	9/12/2019	11	No	10	0	n/a	n/a	0.01476	NP Intra (normality) ...
Fluoride (mg/L)	GWA-21	0.15	n/a	9/12/2019	0.04	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-22	0.15	n/a	9/12/2019	0.043	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-45	0.15	n/a	9/12/2019	0.026	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-46	0.15	n/a	9/12/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-47	0.15	n/a	9/12/2019	0.041	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-48	0.15	n/a	9/12/2019	0.044	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-49	0.15	n/a	9/12/2019	0.042	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-29	0.15	n/a	9/12/2019	0.042	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-50	0.15	n/a	9/12/2019	0.028	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-51	0.15	n/a	9/12/2019	0.028	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-52	0.15	n/a	9/12/2019	0.042	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-53	0.15	n/a	9/12/2019	0.013ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-21	5.962	5.587	9/12/2019	5.83	No	13	0	None	No	0.000752	Param Intra 1 of 2
pH (S.U.)	GWA-22	6.27	5.499	9/12/2019	5.87	No	14	0	None	No	0.000752	Param Intra 1 of 2

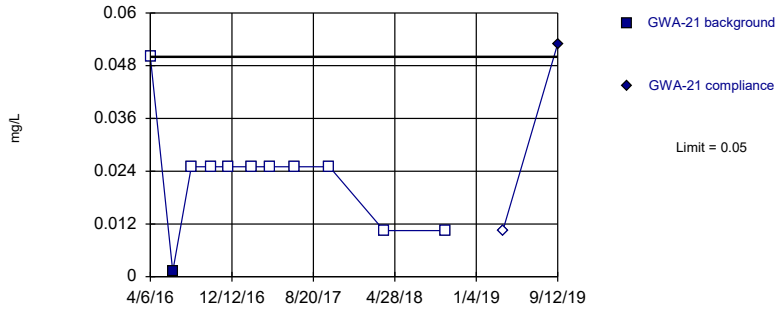
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWA-45	6.448	5.747	9/13/2019	5.96	No	13	0	None	No	0.000752	Param Intra 1 of 2
pH (S.U.)	GWA-46	6.83	5.71	9/12/2019	5.83	No	13	0	n/a	n/a	0.01938	NP Intra (normality) ...
pH (S.U.)	GWA-47	6.552	6.309	9/12/2019	6.49	No	14	0	None	No	0.000752	Param Intra 1 of 2
pH (S.U.)	GWA-48	6.981	6.519	9/12/2019	6.78	No	13	0	None	No	0.000752	Param Intra 1 of 2
pH (S.U.)	GWA-49	7.091	6.613	9/12/2019	6.82	No	13	0	None	No	0.000752	Param Intra 1 of 2
<b>pH (S.U.)</b>	<b>GWC-29</b>	<b>5.923</b>	<b>5.7</b>	<b>9/12/2019</b>	<b>5.98</b>	<b>Yes</b>	<b>13</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000752</b>	<b>Param Intra 1 of 2</b>
pH (S.U.)	GWC-50	5.994	5.672	9/13/2019	5.78	No	14	0	None	No	0.000752	Param Intra 1 of 2
pH (S.U.)	GWC-51	8.36	5.76	9/12/2019	5.86	No	15	0	n/a	n/a	0.01507	NP Intra (normality) ...
pH (S.U.)	GWC-52	7.63	6.53	9/12/2019	6.68	No	15	0	n/a	n/a	0.01507	NP Intra (normality) ...
pH (S.U.)	GWC-53	7.725	5.48	9/13/2019	5.55	No	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
Sulfate (mg/L)	GWA-21	2.97	n/a	9/12/2019	1.3	No	11	9.091	None	No	0.001504	Param Intra 1 of 2
Sulfate (mg/L)	GWA-22	0.5	n/a	9/12/2019	0.38	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-45	182.1	n/a	9/12/2019	170	No	11	0	None	No	0.001504	Param Intra 1 of 2
Sulfate (mg/L)	GWA-46	0.594	n/a	9/12/2019	0.61	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-47	0.5	n/a	9/12/2019	0.4	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-48	1.626	n/a	9/12/2019	1.2	No	11	0	None	No	0.001504	Param Intra 1 of 2
Sulfate (mg/L)	GWA-49	0.507	n/a	9/12/2019	0.77	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GWC-29</b>	<b>3.125</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>3.2</b>	<b>Yes</b>	<b>11</b>	<b>9.091</b>	<b>None</b>	<b>x^2</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GWC-50	0.5	n/a	9/12/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-51	0.5	n/a	9/12/2019	0.65	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GWC-52</b>	<b>24.52</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>34</b>	<b>Yes</b>	<b>10</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Sulfate (mg/L)	GWC-53	182.6	n/a	9/12/2019	170	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>GWA-21</b>	<b>109.9</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>130</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Total Dissolved Solids (mg/L)	GWA-22	115	n/a	9/12/2019	72	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>GWA-45</b>	<b>336.6</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>340</b>	<b>Yes</b>	<b>11</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>GWA-46</b>	<b>86.78</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>97</b>	<b>Yes</b>	<b>11</b>	<b>9.091</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Total Dissolved Solids (mg/L)	GWA-47	116	n/a	9/12/2019	88	No	11	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-48	120.7	n/a	9/12/2019	110	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>GWA-49</b>	<b>118.7</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>120</b>	<b>Yes</b>	<b>10</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Total Dissolved Solids (mg/L)	GWC-29	138.1	n/a	9/12/2019	110	No	11	0	None	No	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-50	129.2	n/a	9/12/2019	89	No	11	0	None	No	0.001504	Param Intra 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>GWC-51</b>	<b>102.5</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>110</b>	<b>Yes</b>	<b>10</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.001504</b>	<b>Param Intra 1 of 2</b>
Total Dissolved Solids (mg/L)	GWC-52	184	n/a	9/12/2019	160	No	11	0	None	sqrt(x)	0.001504	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-53	326.8	n/a	9/12/2019	300	No	11	0	None	No	0.001504	Param Intra 1 of 2

Exceeds Limit

Prediction Limit  
Intrawell Non-parametric

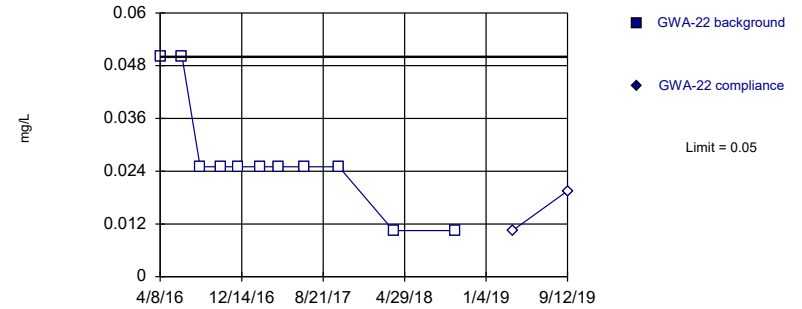


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

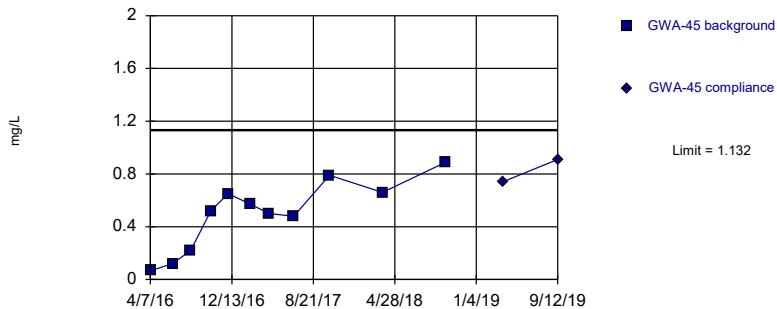


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

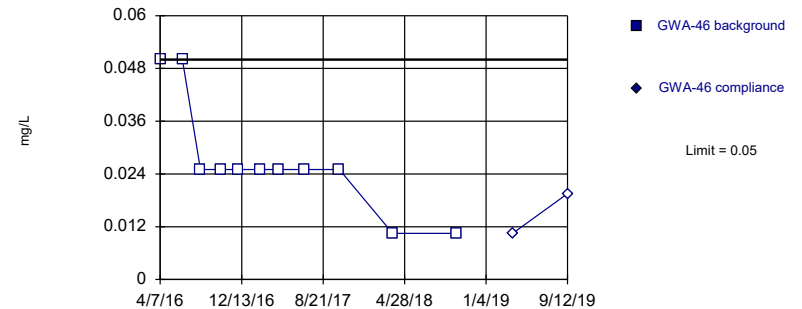


Background Data Summary: Mean=0.4969, Std. Dev.=0.2648, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

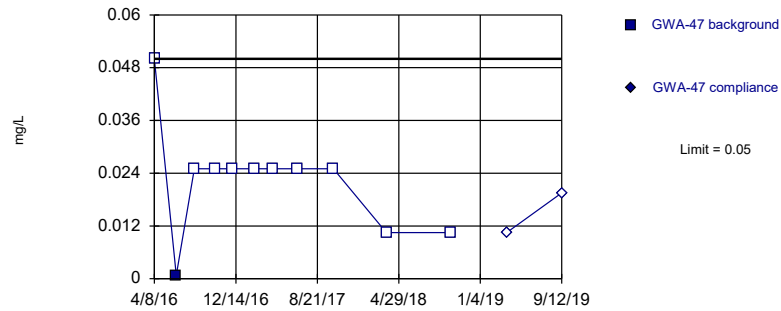


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

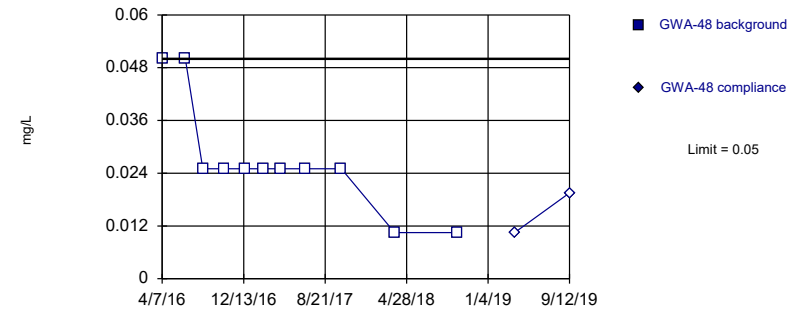


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

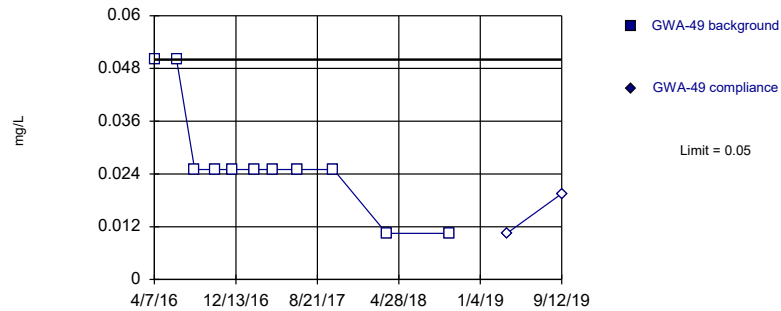


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

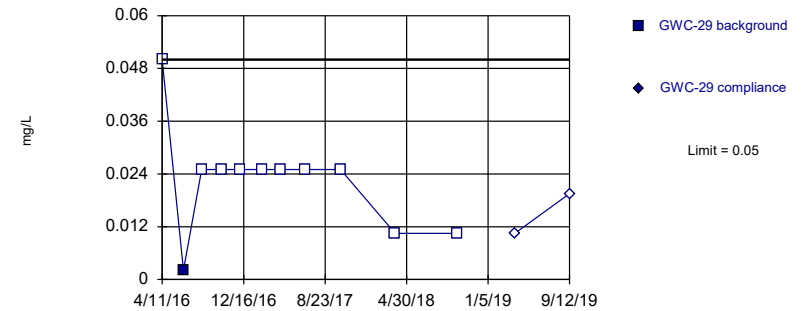


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

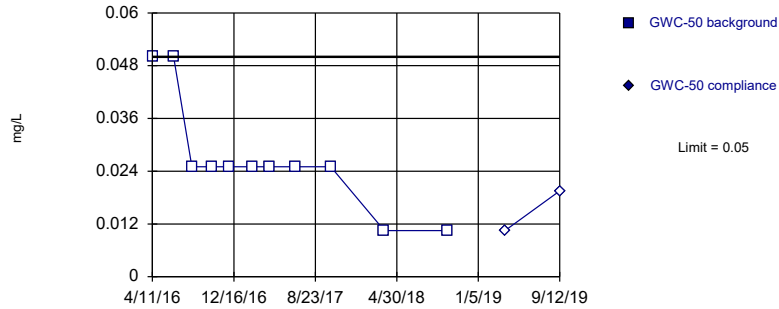


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

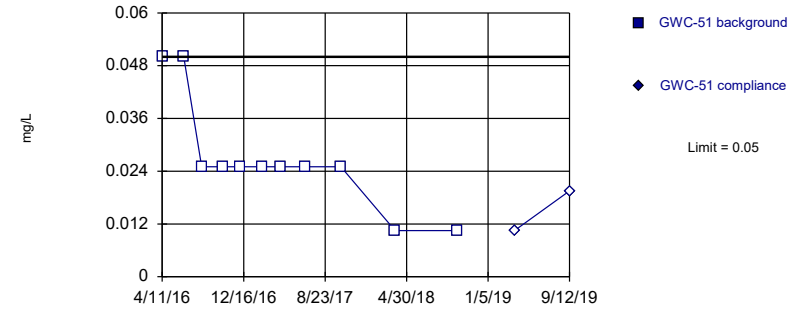


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

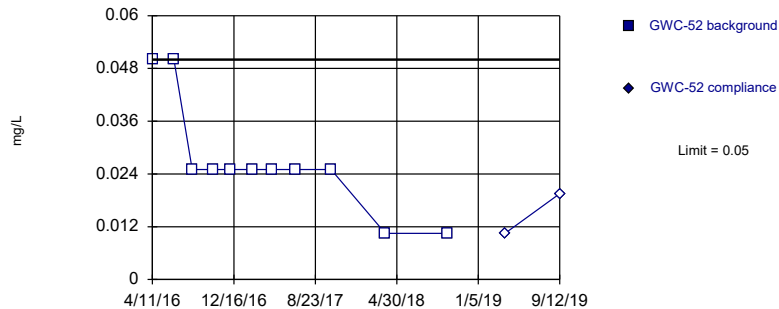


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

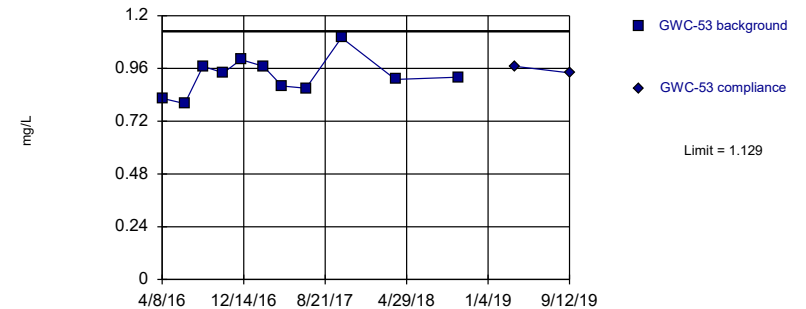


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric



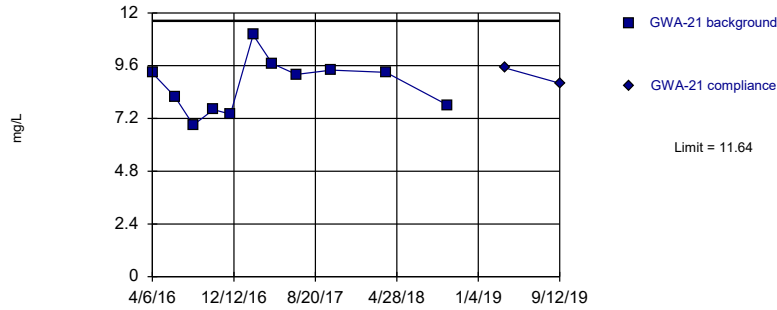
Background Data Summary: Mean=0.9258, Std. Dev.=0.08464, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Boron Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Parametric

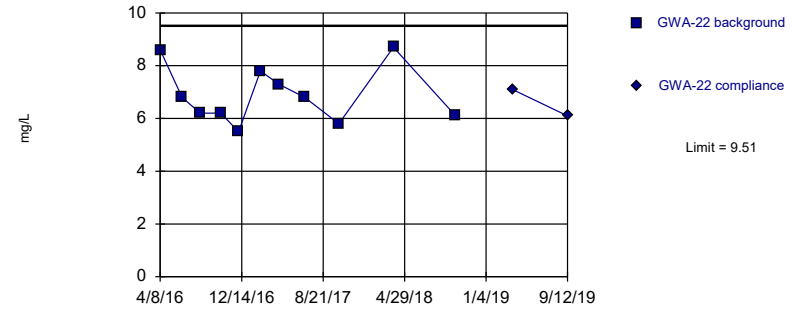


Background Data Summary: Mean=8.706, Std. Dev.=1.221, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

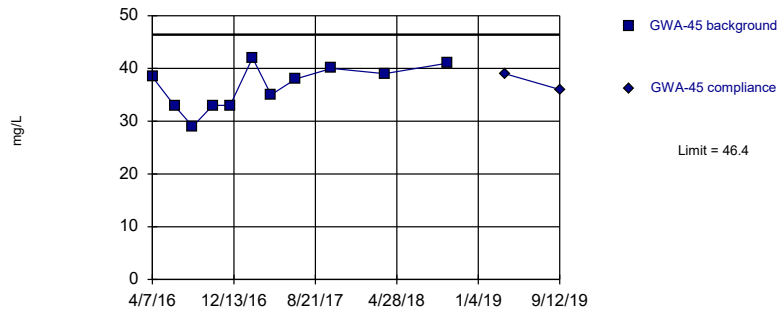


Background Data Summary: Mean=6.891, Std. Dev.=1.091, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

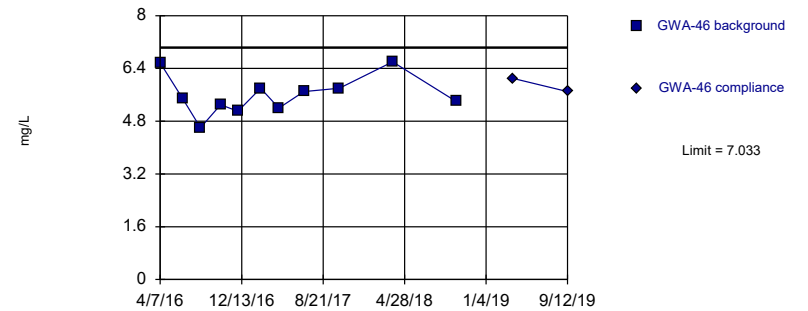


Background Data Summary: Mean=36.48, Std. Dev.=4.133, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

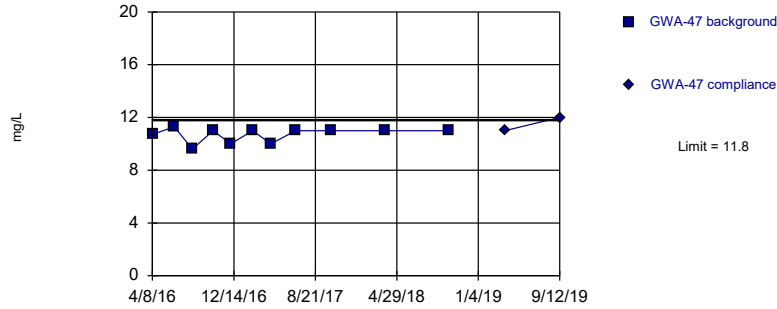


Background Data Summary: Mean=5.597, Std. Dev.=0.5984, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9408, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

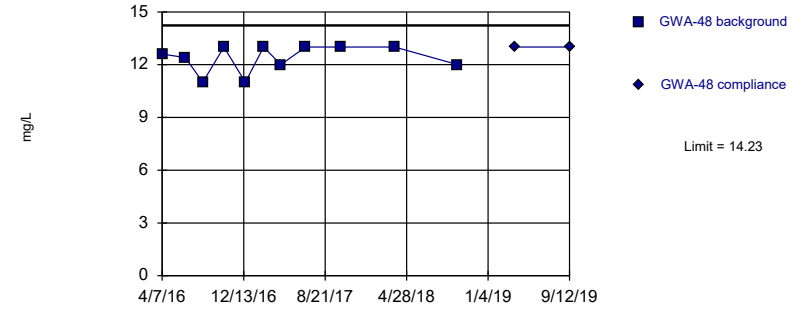


Background Data Summary (based on x<sup>4</sup> transformation): Mean=13250, Std. Dev.=2544, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.797, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

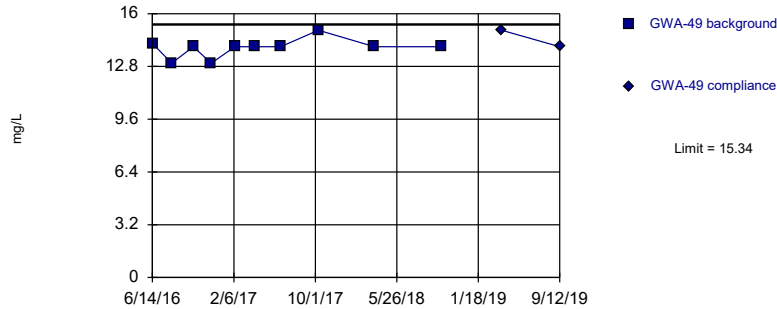


Background Data Summary: Mean=12.36, Std. Dev.=0.7788, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7935, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

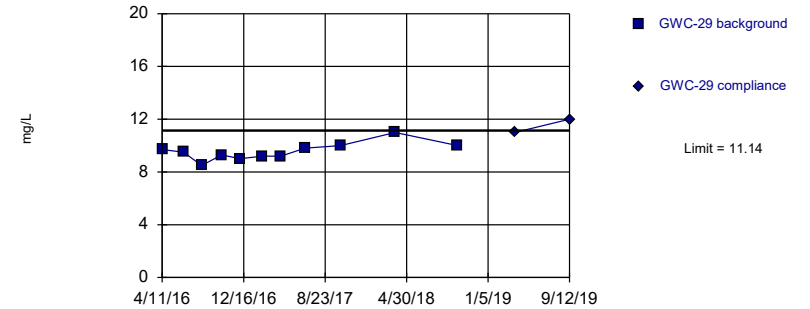


Background Data Summary: Mean=13.92, Std. Dev.=0.575, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

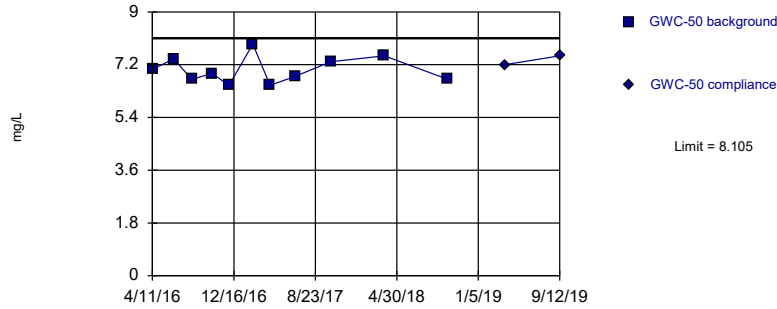


Background Data Summary: Mean=9.564, Std. Dev.=0.6562, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

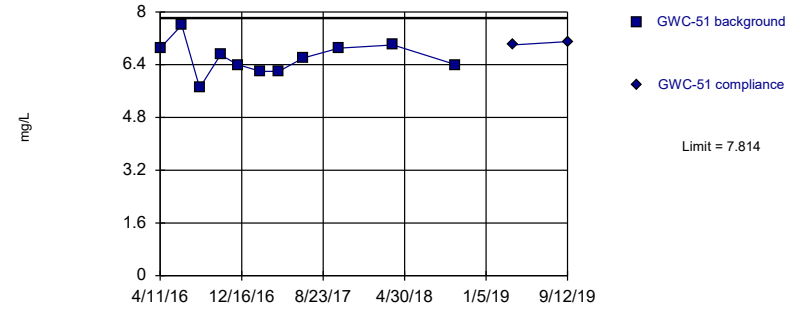


Background Data Summary: Mean=7.022, Std. Dev.=0.4513, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

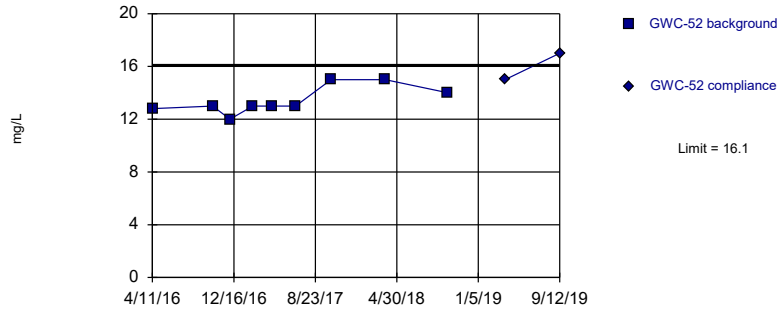


Background Data Summary: Mean=6.6, Std. Dev.=0.506, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

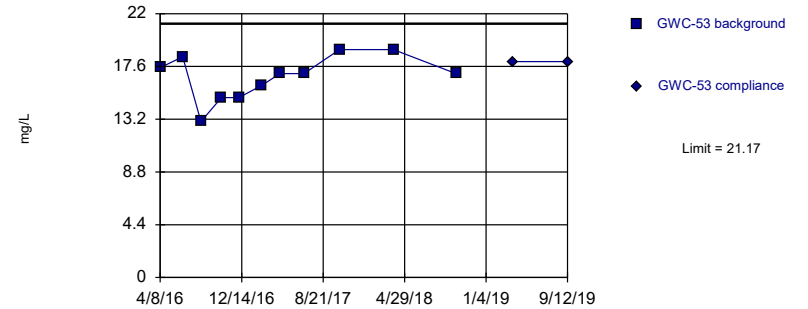


Background Data Summary: Mean=13.42, Std. Dev.=1.027, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.764. Kappa = 2.609 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric



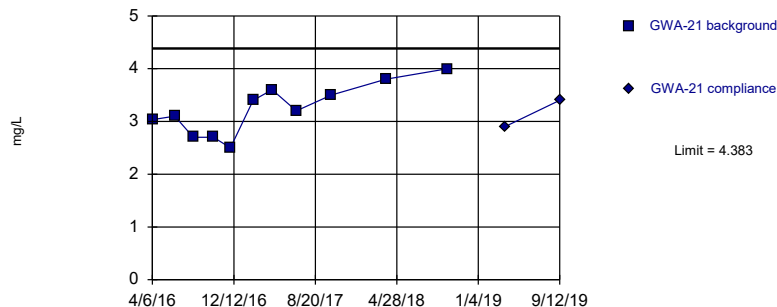
Background Data Summary: Mean=16.72, Std. Dev.=1.853, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Calcium Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

### Prediction Limit

Intrawell Parametric



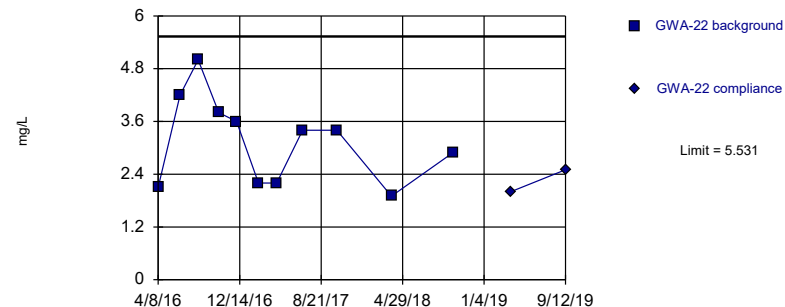
Background Data Summary: Mean=3.23, Std. Dev.=0.4804, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

### Prediction Limit

Intrawell Parametric



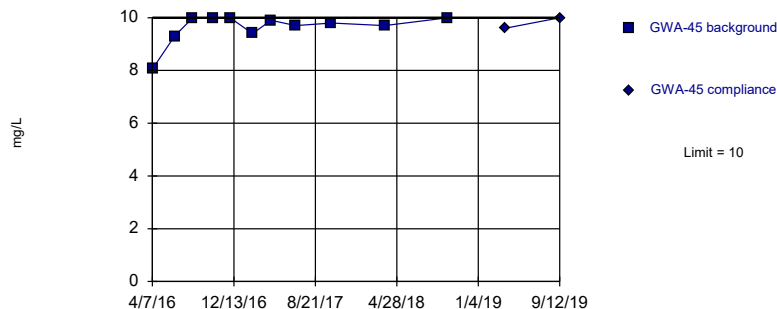
Background Data Summary: Mean=3.155, Std. Dev.=0.9903, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

### Prediction Limit

Intrawell Non-parametric



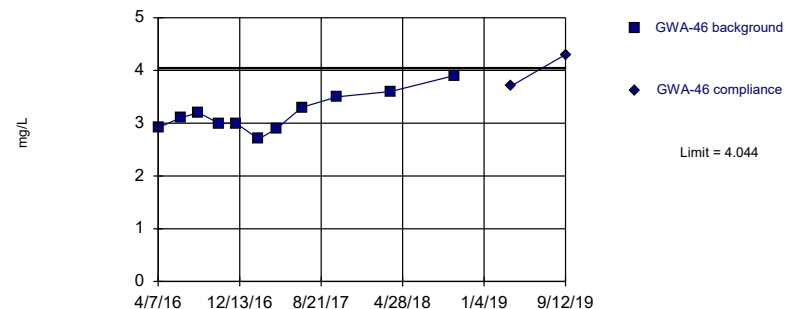
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 11 background values. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Chloride Analysis Run 1/27/2020 10:29 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

### Prediction Limit

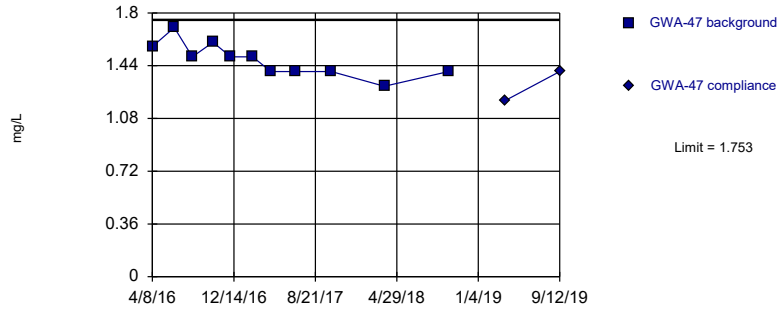
Intrawell Parametric



Background Data Summary: Mean=3.192, Std. Dev.=0.3551, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

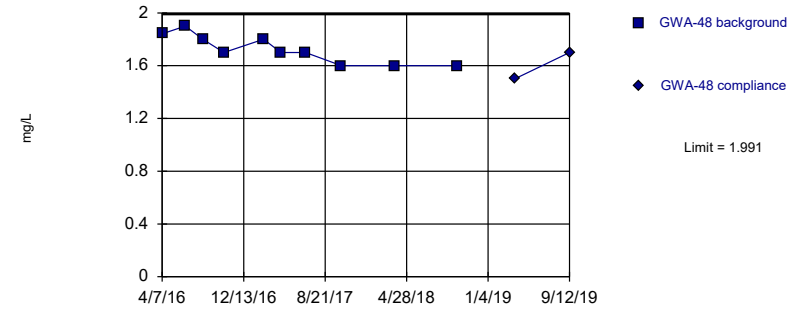
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.479, Std. Dev.=0.1141, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

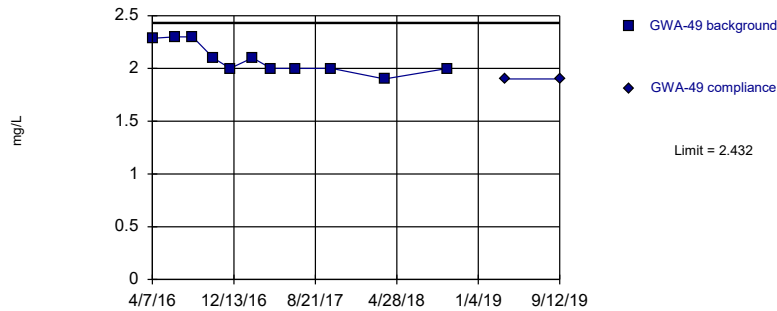
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.724, Std. Dev.=0.1077, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

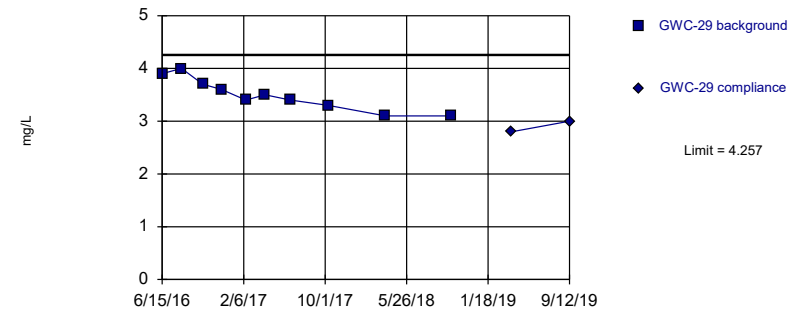
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=2.09, Std. Dev.=0.1425, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8245, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric

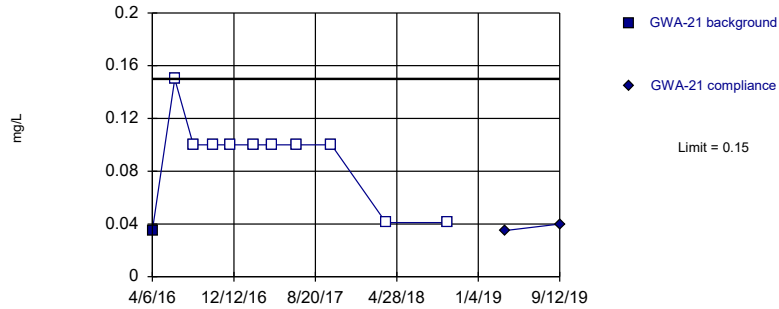


Background Data Summary: Mean=3.5, Std. Dev.=0.3055, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Chloride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR



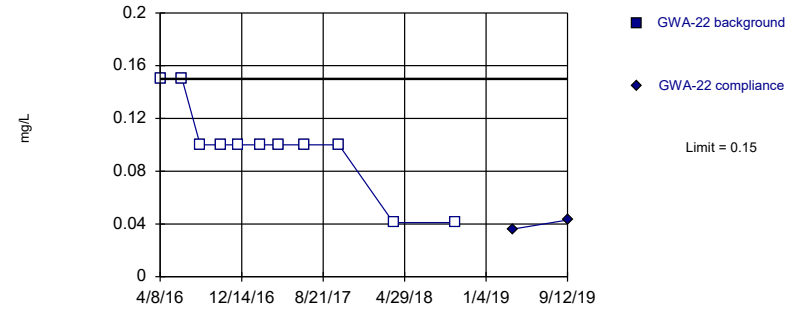
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

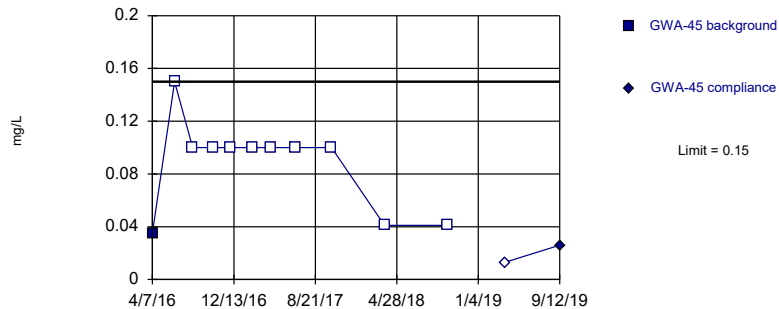
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

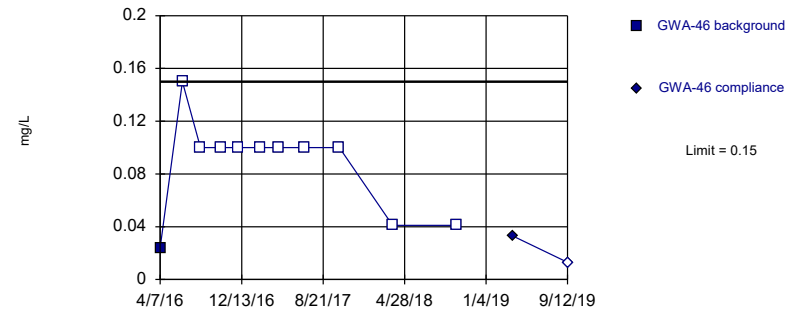
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric

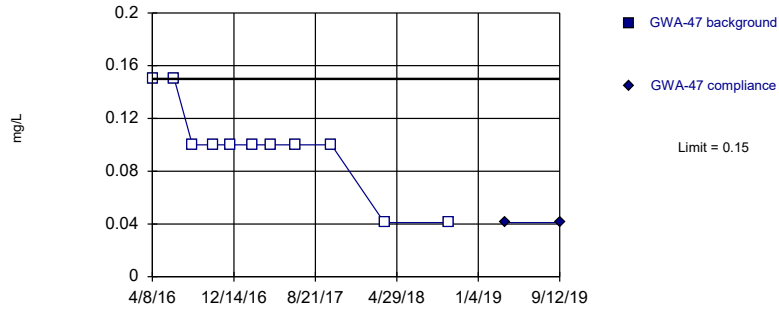


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

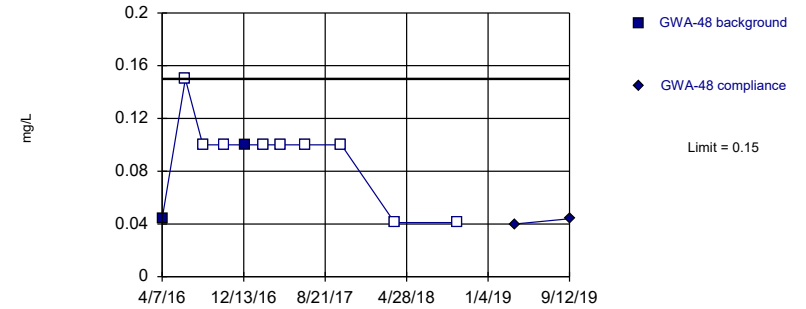


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

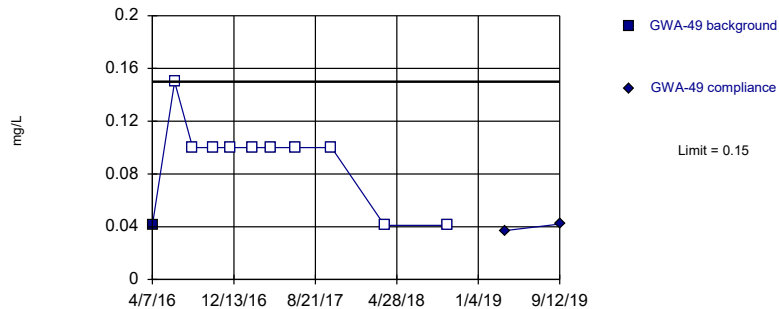


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

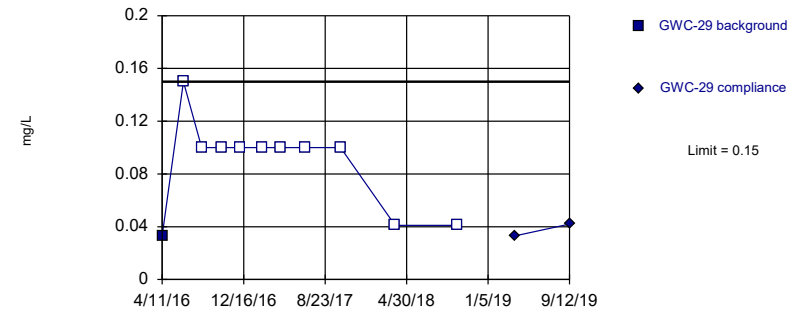


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



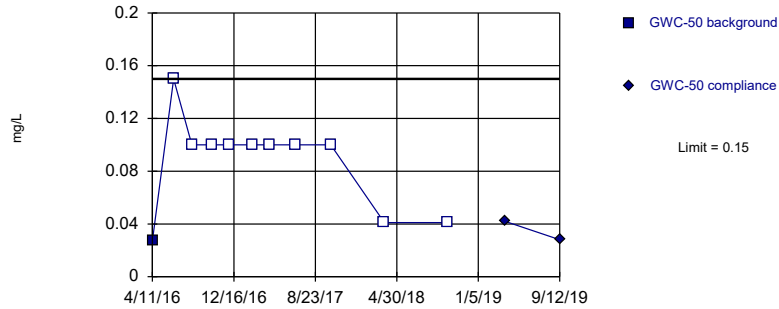
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Within Limit

Prediction Limit  
Intrawell Non-parametric

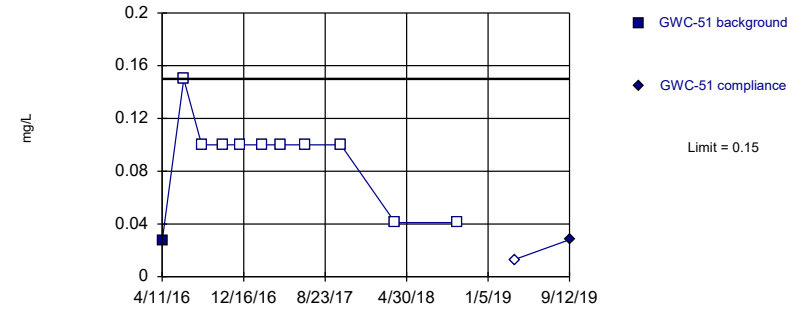


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

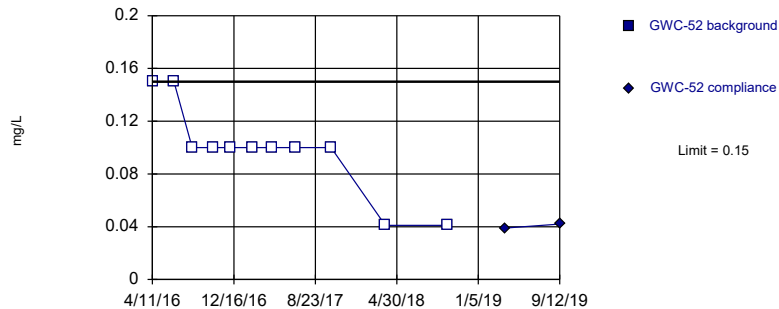


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

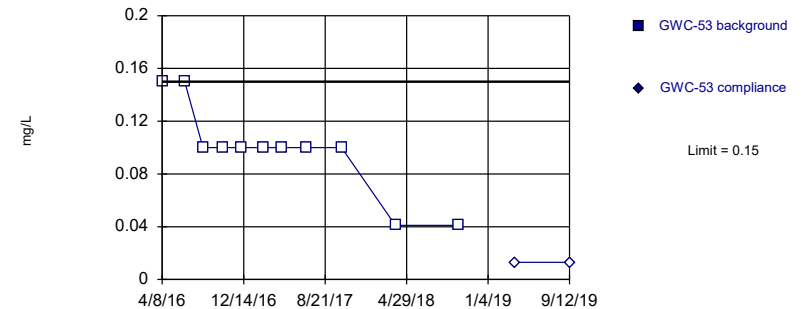


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

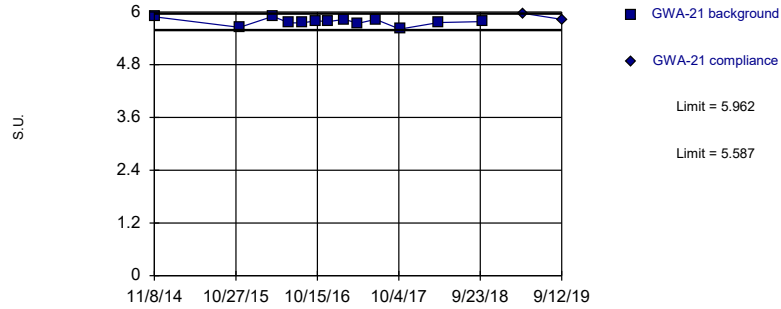


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

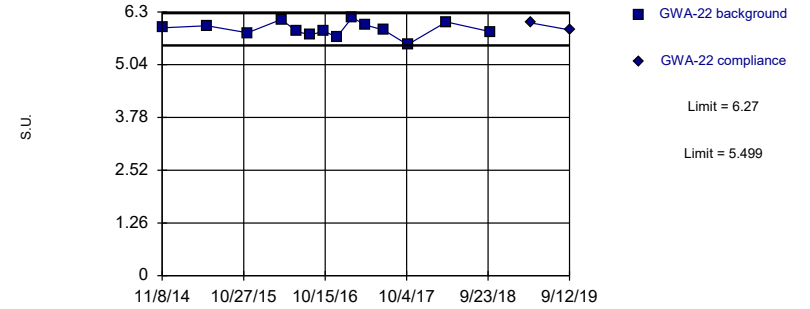


Background Data Summary: Mean=5.775, Std. Dev.=0.08222, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9468, critical = 0.814. Kappa = 2.279 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

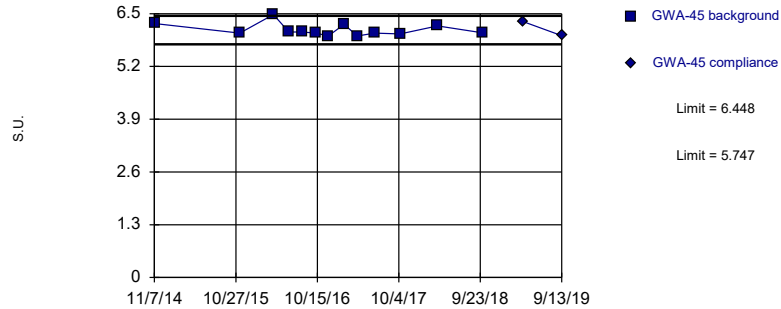


Background Data Summary: Mean=5.884, Std. Dev.=0.1725, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9782, critical = 0.825. Kappa = 2.236 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

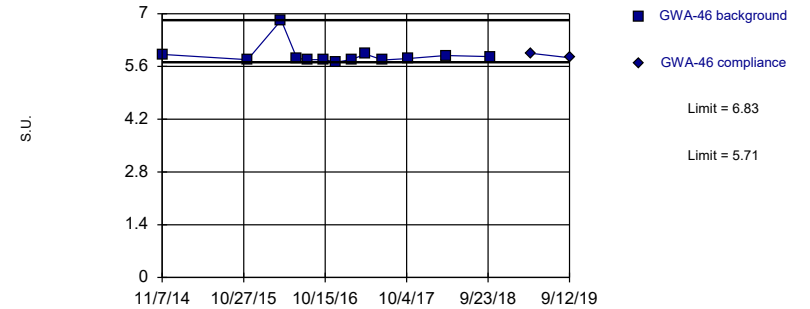


Background Data Summary: Mean=6.098, Std. Dev.=0.1537, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8145, critical = 0.814. Kappa = 2.279 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Non-parametric

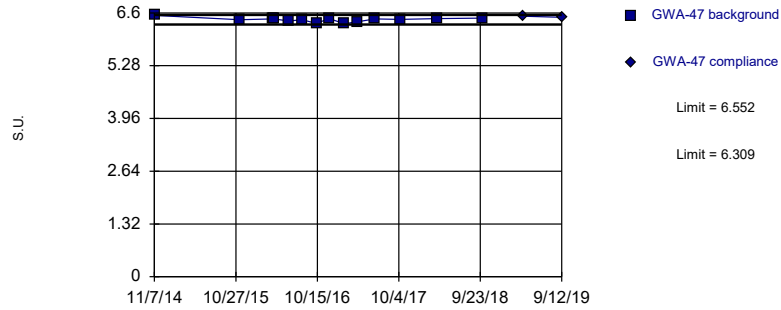


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.03858. Individual comparison alpha = 0.01938 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

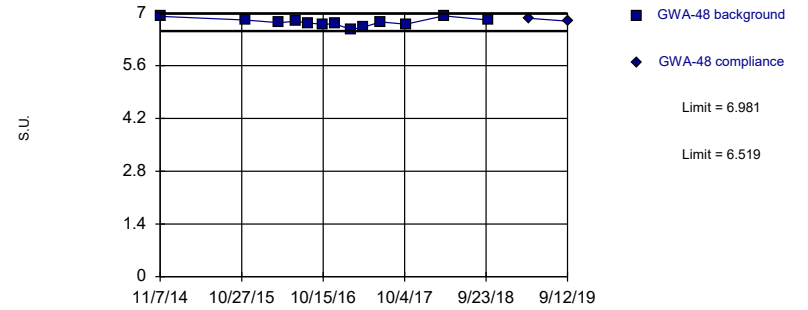


Background Data Summary: Mean=6.431, Std. Dev.=0.05427, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.825. Kappa = 2.236 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

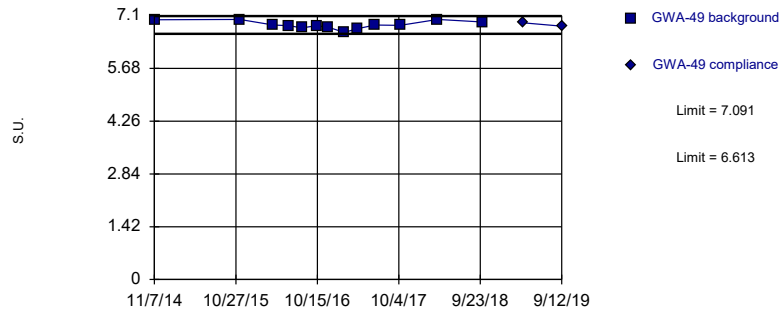


Background Data Summary: Mean=6.75, Std. Dev.=0.1012, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9635, critical = 0.814. Kappa = 2.279 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

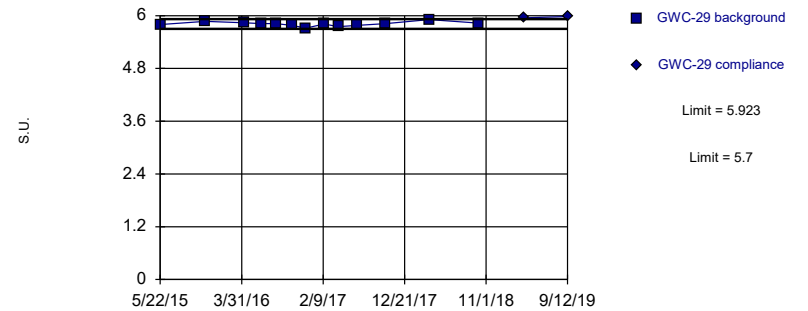


Background Data Summary: Mean=6.852, Std. Dev.=0.1048, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.814. Kappa = 2.279 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limits

Prediction Limit  
Intrawell Parametric

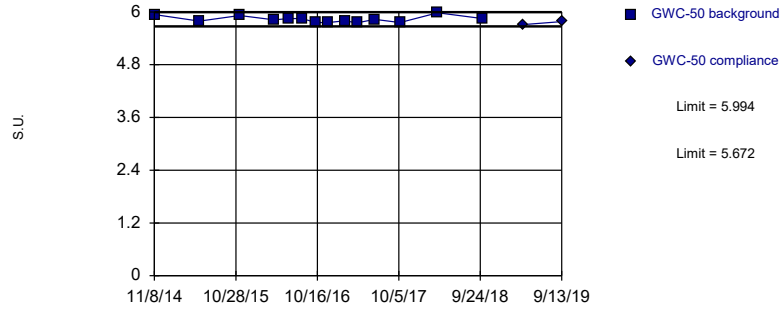


Background Data Summary: Mean=5.812, Std. Dev.=0.04896, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.814. Kappa = 2.279 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Parametric

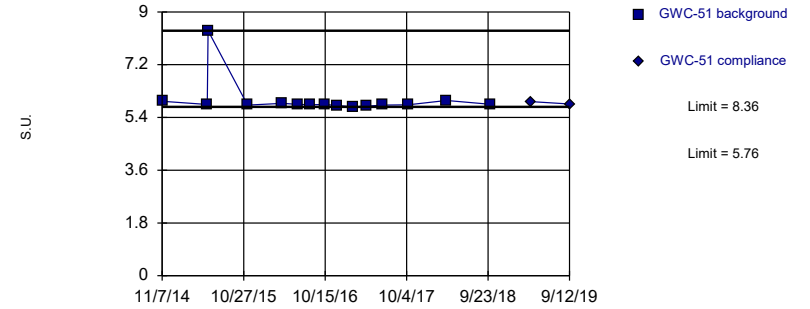


Background Data Summary: Mean=5.833, Std. Dev.=0.07205, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9069, critical = 0.825. Kappa = 2.236 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Non-parametric

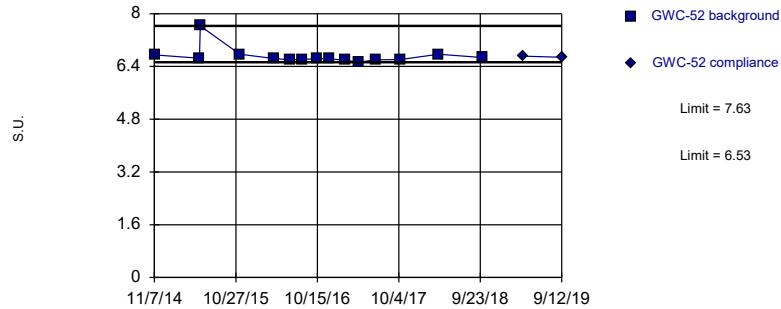


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

Prediction Limit  
Intrawell Non-parametric

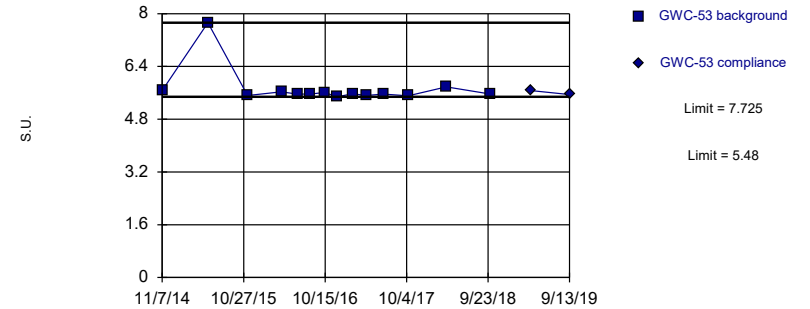


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limits

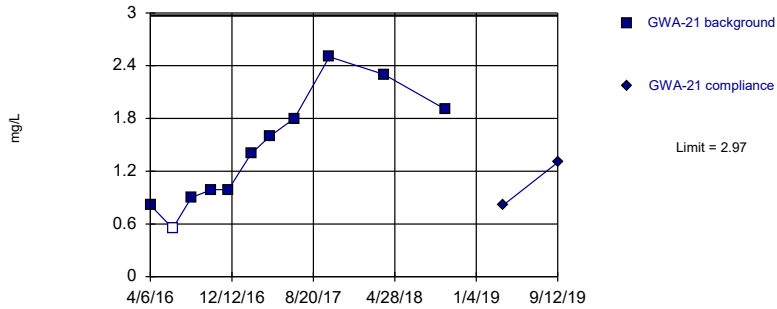
Prediction Limit  
Intrawell Non-parametric



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 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2).

Constituent: pH Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

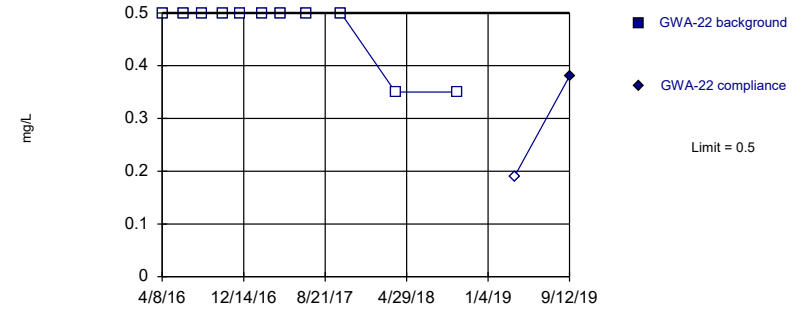
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=1.431, Std. Dev.=0.6413, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.943, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

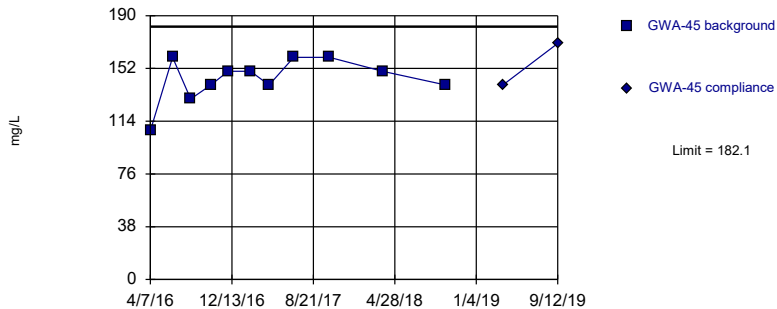
Within Limit Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

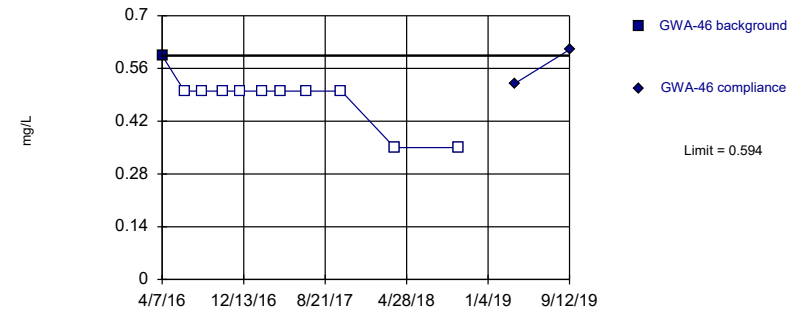
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=144.3, Std. Dev.=15.75, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8611, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Non-parametric

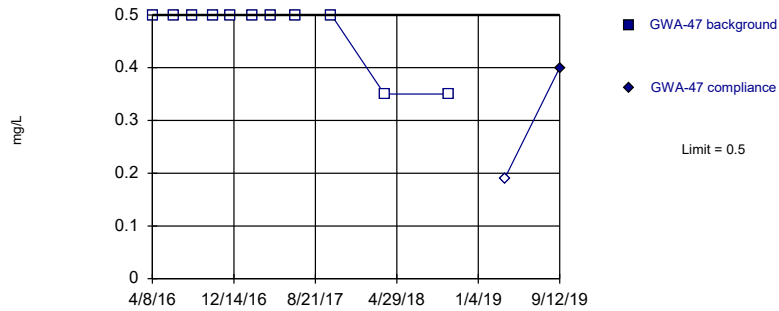


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

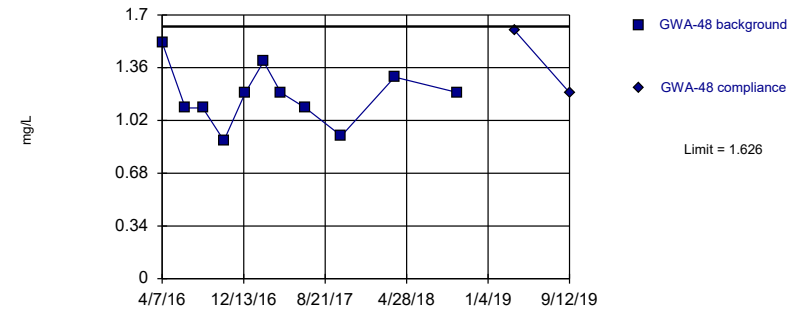


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

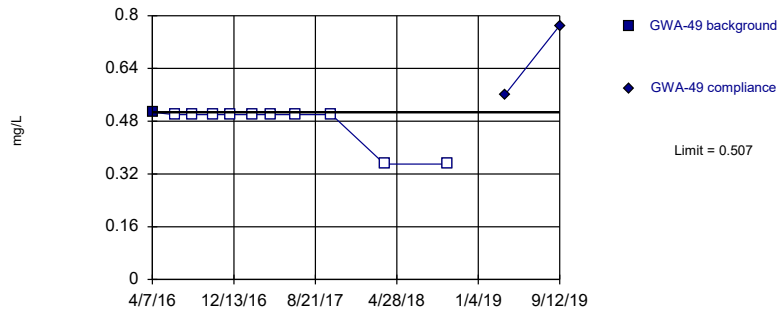


Background Data Summary: Mean=1.176, Std. Dev.=0.1875, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

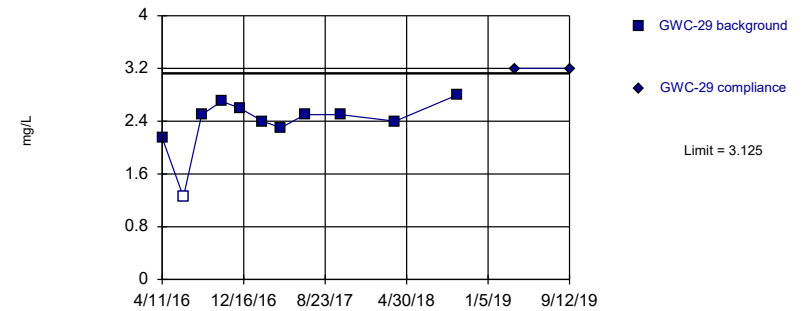


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

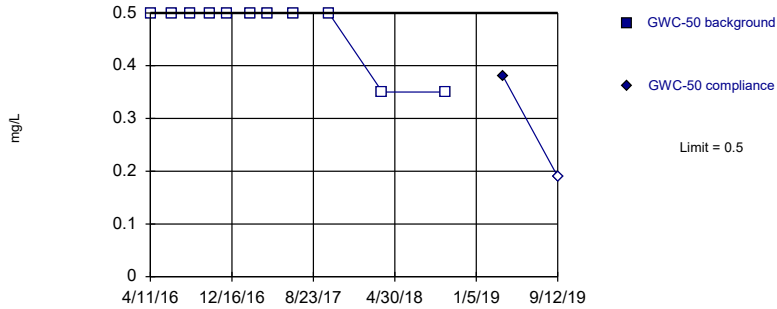
Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=5.785, Std. Dev.=1.659, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8502, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

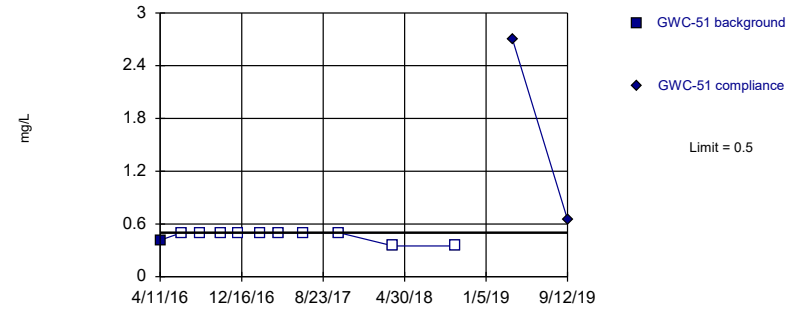
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 100% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

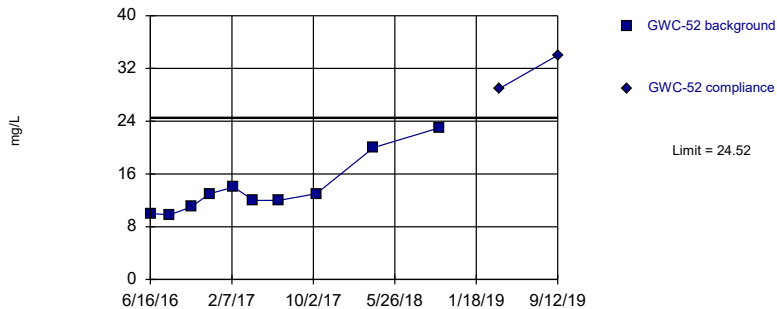
Within Limit Prediction Limit  
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

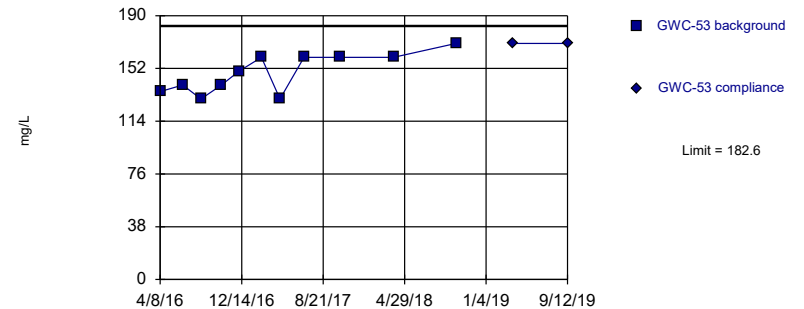
Exceeds Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary: Mean=13.78, Std. Dev.=4.335, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8053, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
 Intrawell Parametric

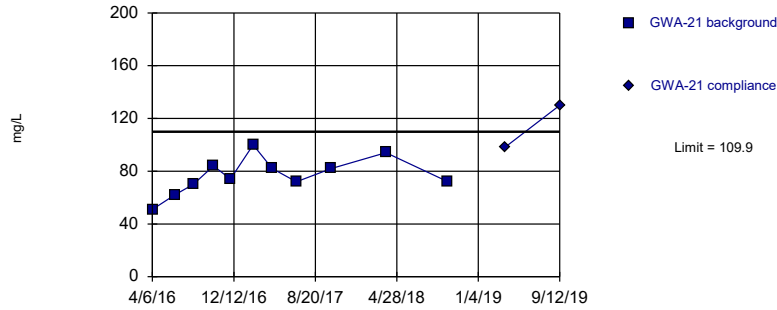


Background Data Summary: Mean=148.7, Std. Dev.=14.12, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Sulfate Analysis Run 1/27/2020 10:30 PM View: Appendix III  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

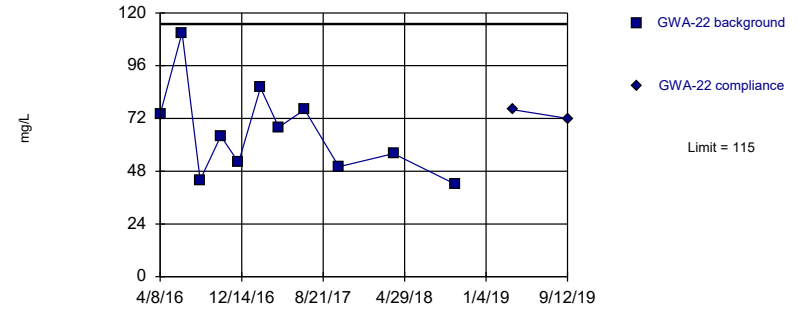


Background Data Summary: Mean=76.64, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

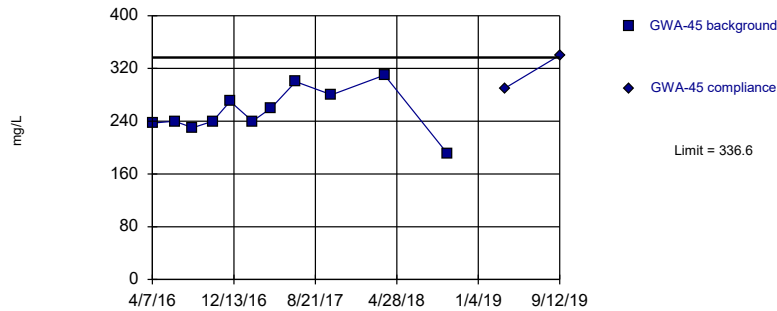


Background Data Summary: Mean=65.73, Std. Dev.=20.51, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric



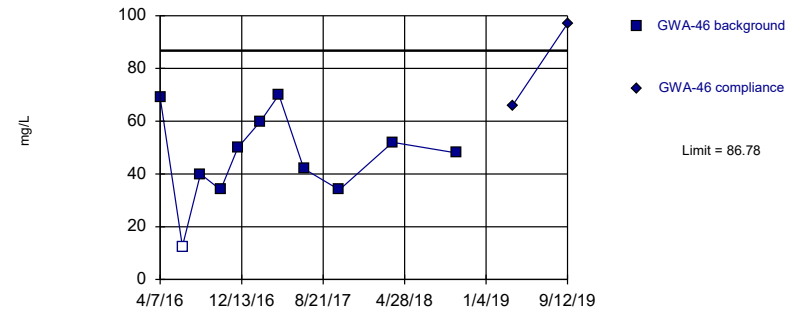
Background Data Summary: Mean=254.3, Std. Dev.=34.3, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric

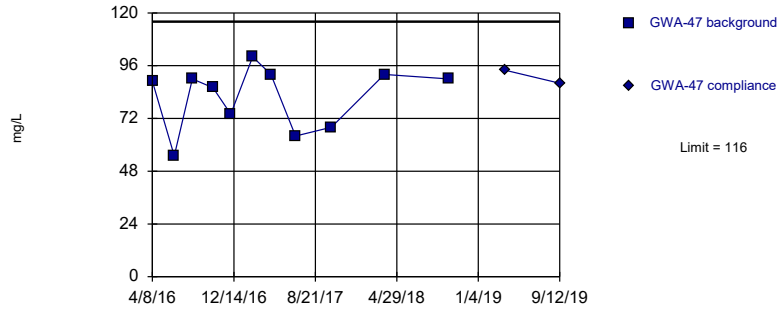


Background Data Summary: Mean=46.5, Std. Dev.=16.78, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR



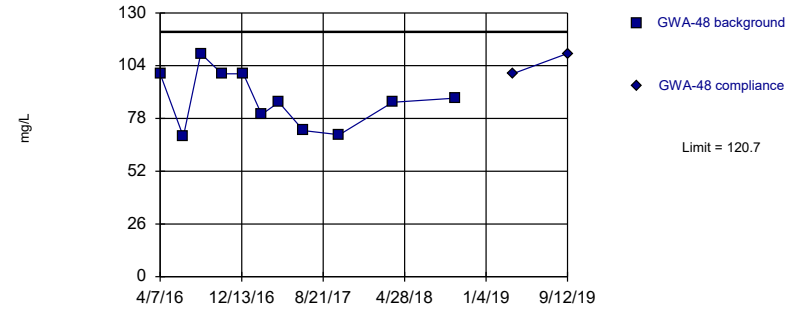
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=81.82, Std. Dev.=14.25, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8889, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
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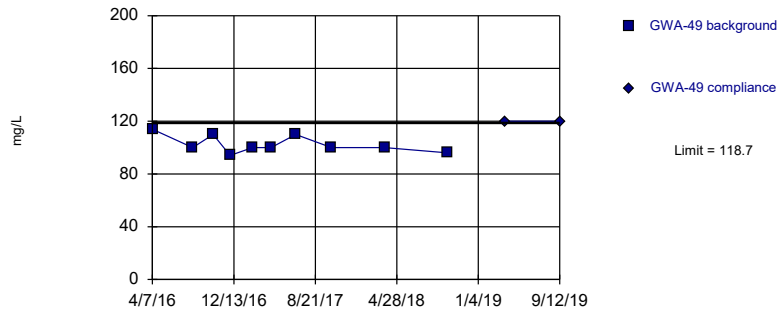
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=87.36, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:30 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

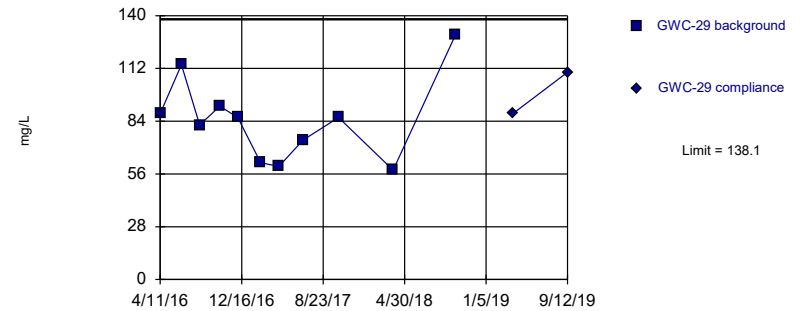
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=102.4, Std. Dev.=6.586, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8509, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

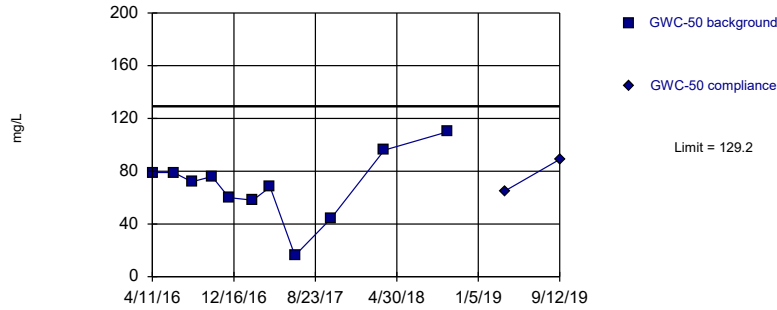
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=84.73, Std. Dev.=22.22, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

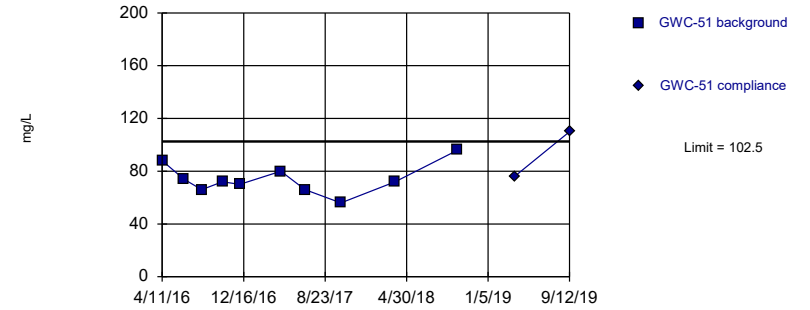
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=68.91, Std. Dev.=25.11, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

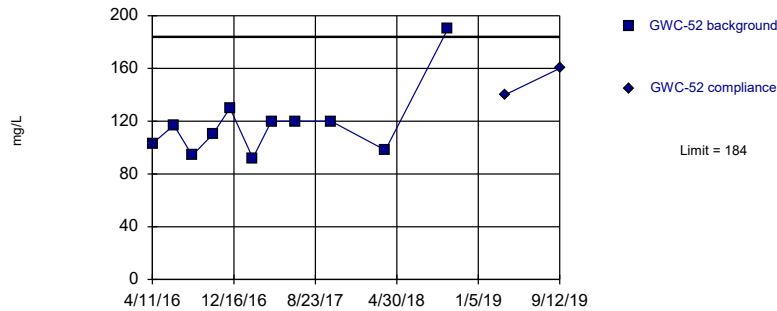
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=74, Std. Dev.=11.51, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9518, critical = 0.781. Kappa = 2.478 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

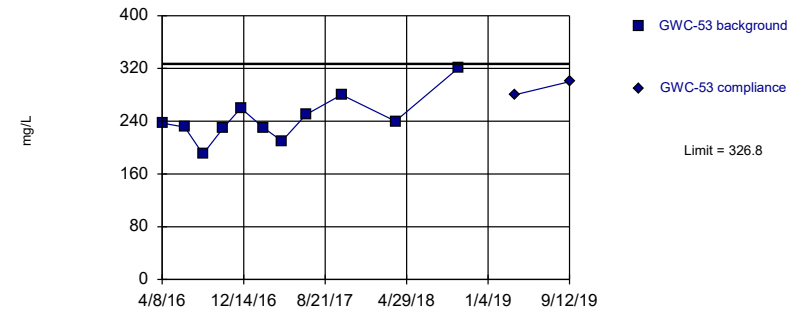
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=10.79, Std. Dev.=1.155, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8156, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=243.5, Std. Dev.=34.73, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.792. Kappa = 2.4 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.001504.

Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:31 PM View: Appendix III  
Scherer Client: Golder Associates Data: Scherer PAC CCR

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:53 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg.N</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium, Total (mg/L)	GWA-45	0.05749	n/a	12/2/2019	0.11	Yes	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-46	0.02168	n/a	9/12/2019	0.022	Yes	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-29	0.01835	n/a	9/12/2019	0.019	Yes	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-52	0.01444	n/a	9/12/2019	0.017	Yes	23	0	None	x^2	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-52	0.01544	n/a	9/12/2019	0.027	Yes	24	4.167	None	No	0.000...	Param Intra 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:53 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony, Total (mg/L)	GWA-21	0.0025	n/a	9/12/2019	0.00019ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-22	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-45	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-46	0.0025	n/a	9/12/2019	0.00019ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-47	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-48	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWA-49	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWC-29	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWC-50	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWC-51	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWC-52	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Antimony, Total (mg/L)	GWC-53	0.0025	n/a	9/12/2019	0.00019ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.00016ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-22	0.005	n/a	9/12/2019	0.00016ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.00016ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-46	0.005	n/a	9/12/2019	0.00016ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-47	0.005	n/a	9/12/2019	0.00016ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-48	0.005	n/a	9/12/2019	0.00016ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWA-49	0.005	n/a	9/12/2019	0.00016ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWC-29	0.005	n/a	9/12/2019	0.00016ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWC-50	0.005	n/a	9/12/2019	0.00016ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWC-51	0.005	n/a	9/12/2019	0.00016ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWC-52	0.005	n/a	9/12/2019	0.00016ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Arsenic, Total (mg/L)	GWC-53	0.005	n/a	9/12/2019	0.00016ND	No	21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Barium, Total (mg/L)	GWA-21	0.02944	n/a	9/12/2019	0.025	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-22	0.03065	n/a	9/12/2019	0.023	No	24	0	None	No	0.000...	Param Intra 1 of 2
<b>Barium, Total (mg/L)</b>	<b>GWA-45</b>	<b>0.05749</b>	<b>n/a</b>	<b>12/2/2019</b>	<b>0.11</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
<b>Barium, Total (mg/L)</b>	<b>GWA-46</b>	<b>0.02168</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.022</b>	<b>Yes</b>	<b>23</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Barium, Total (mg/L)	GWA-47	0.0497	n/a	9/12/2019	0.028	No	23	0	None	x^(1/3)	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-48	0.031	n/a	9/12/2019	0.016	No	22	0	n/a	n/a	0.003707	NP Intra (normality) ...
Barium, Total (mg/L)	GWA-49	0.02227	n/a	9/12/2019	0.022	No	24	0	None	No	0.000...	Param Intra 1 of 2
<b>Barium, Total (mg/L)</b>	<b>GWC-29</b>	<b>0.01835</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.019</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Barium, Total (mg/L)	GWC-50	0.01422	n/a	9/12/2019	0.013	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-51	0.013	n/a	9/12/2019	0.011	No	24	4.167	n/a	n/a	0.003124	NP Intra (normality) ...
<b>Barium, Total (mg/L)</b>	<b>GWC-52</b>	<b>0.01444</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.017</b>	<b>Yes</b>	<b>23</b>	<b>0</b>	<b>None</b>	<b>x^2</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Barium, Total (mg/L)	GWC-53	0.1189	n/a	9/12/2019	0.043	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Beryllium, Total (mg/L)	GWA-21	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-22	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-45	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-46	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-47	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-48	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-49	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-29	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-50	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-51	0.0015	n/a	9/12/2019	0.00009ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-52	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-53	0.0015	n/a	9/12/2019	0.00009ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-21	0.0025	n/a	9/12/2019	0.000065ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-22	0.0025	n/a	9/12/2019	0.000065ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:53 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium, Total (mg/L)	GWA-45	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-46	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-47	0.0025	n/a	9/12/2019	0.000065NDNo		23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-48	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-49	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-29	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-50	0.0025	n/a	9/12/2019	0.000065NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-51	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-52	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-53	0.0025	n/a	9/12/2019	0.000065NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Chromium, Total (mg/L)	GWA-21	0.009146	n/a	9/12/2019	0.0047	No	24	16.67	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-22	0.01145	n/a	9/12/2019	0.0092	No	23	4.348	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.00075ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium, Total (mg/L)	GWA-46	0.008184	n/a	9/12/2019	0.0051	No	24	4.167	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-47	0.045	n/a	9/12/2019	0.0088	No	24	8.333	n/a	n/a	0.003124	NP Intra (normality) ...
Chromium, Total (mg/L)	GWA-48	0.0245	n/a	9/12/2019	0.0085	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-49	0.009517	n/a	9/12/2019	0.0075	No	24	4.167	None	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-29	0.004513	n/a	9/12/2019	0.0021	No	23	39.13	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-50	0.006384	n/a	9/12/2019	0.006	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-51	0.005787	n/a	9/12/2019	0.0043	No	24	12.5	None	No	0.000...	Param Intra 1 of 2
<b>Chromium, Total (mg/L)</b>	<b>GWC-52</b>	<b>0.01544</b>	<b>n/a</b>	<b>9/12/2019</b>	<b>0.027</b>	<b>Yes</b>	<b>24</b>	<b>4.167</b>	<b>None</b>	<b>No</b>	<b>0.000...</b>	<b>Param Intra 1 of 2</b>
Chromium, Total (mg/L)	GWC-53	0.004171	n/a	9/12/2019	0.002	No	23	39.13	Kapla...	No	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.0004	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-22	0.005	n/a	9/12/2019	0.00003...	No	23	78.26	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-45	0.01057	n/a	9/12/2019	0.0018	No	24	29.17	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-46	0.005	n/a	9/12/2019	0.000095	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-47	0.005	n/a	9/12/2019	0.00011	No	22	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-48	0.005	n/a	9/12/2019	0.00003...	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-49	0.005	n/a	9/12/2019	0.00017	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-29	0.005	n/a	9/12/2019	0.00003...	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-50	0.005	n/a	9/12/2019	0.00003...	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-51	0.005	n/a	9/12/2019	0.00012	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-52	0.005	n/a	9/12/2019	0.00003...	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-53	0.01692	n/a	9/12/2019	0.011	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Copper, Total (mg/L)	GWA-21	0.0125	n/a	9/12/2019	0.000315NDNo		18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWA-22	0.0125	n/a	9/12/2019	0.000315NDNo		18	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWA-45	0.0125	n/a	9/12/2019	0.000315NDNo		19	78.95	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWA-46	0.0125	n/a	9/12/2019	0.000315NDNo		18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWA-47	0.02593	n/a	9/12/2019	0.000315NDNo		18	27.78	Kapla...	No	0.000...	Param Intra 1 of 2
Copper, Total (mg/L)	GWA-48	0.0125	n/a	9/12/2019	0.00083	No	18	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWA-49	0.0125	n/a	9/12/2019	0.000315NDNo		19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWC-29	0.0125	n/a	9/12/2019	0.000315NDNo		18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWC-50	0.0125	n/a	9/12/2019	0.000315NDNo		18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWC-51	0.0125	n/a	9/12/2019	0.000315NDNo		19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWC-52	0.0125	n/a	9/12/2019	0.000315NDNo		19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Copper, Total (mg/L)	GWC-53	0.0125	n/a	9/12/2019	0.000315NDNo		19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-21	0.0044	n/a	9/12/2019	0.000065NDNo		24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-22	0.0048	n/a	9/12/2019	0.000065NDNo		24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.000065NDNo		24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-46	0.0037	n/a	9/12/2019	0.000065NDNo		24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2

# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:53 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Lead, Total (mg/L)	GWA-47	0.0062	n/a	9/12/2019	0.000065ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-48	0.0064	n/a	9/12/2019	0.000065ND	No	24	66.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-49	0.0062	n/a	9/12/2019	0.000065ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-29	0.0038	n/a	9/12/2019	0.000065ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-50	0.0043	n/a	9/12/2019	0.000065ND	No	24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-51	0.0035	n/a	9/12/2019	0.000065ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-52	0.006	n/a	9/12/2019	0.000065ND	No	24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-53	0.0025	n/a	9/12/2019	0.000065ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-21	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-22	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-45	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-46	0.00025	n/a	9/12/2019	0.00005ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-47	0.00025	n/a	9/12/2019	0.00005ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-48	0.00025	n/a	9/12/2019	0.00005ND	No	24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-49	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-29	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-50	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-51	0.00025	n/a	9/12/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-52	0.00025	n/a	9/12/2019	0.00005ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-53	0.00025	n/a	9/12/2019	0.00005ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.00097	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-22	0.005	n/a	9/12/2019	0.00017ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.00061	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-46	0.005	n/a	9/12/2019	0.0004	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-47	0.022	n/a	9/12/2019	0.00017ND	No	19	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-48	0.016	n/a	9/12/2019	0.00017ND	No	19	52.63	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-49	0.005	n/a	9/12/2019	0.00043	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-29	0.0042	n/a	9/12/2019	0.0035	No	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-50	0.005	n/a	9/12/2019	0.0012	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-51	0.005	n/a	9/12/2019	0.0019	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-52	0.005	n/a	9/12/2019	0.00017ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-53	0.008888	n/a	9/12/2019	0.007	No	18	5.556	None	No	0.000...	Param Intra 1 of 2
Selenium, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.00075ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-22	0.005	n/a	9/12/2019	0.00075ND	No	21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.00075ND	No	20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-46	0.01	n/a	9/12/2019	0.00075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-47	0.01	n/a	9/12/2019	0.00075ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-48	0.005	n/a	9/12/2019	0.00075ND	No	21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-49	0.005	n/a	9/12/2019	0.00075ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-29	0.01	n/a	9/12/2019	0.00075ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-50	0.01	n/a	9/12/2019	0.00075ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-51	0.01	n/a	9/12/2019	0.00075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-52	0.005	n/a	9/12/2019	0.00075ND	No	21	85.71	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-53	0.01	n/a	9/12/2019	0.00075ND	No	23	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-22	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-46	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-47	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWA-48	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2

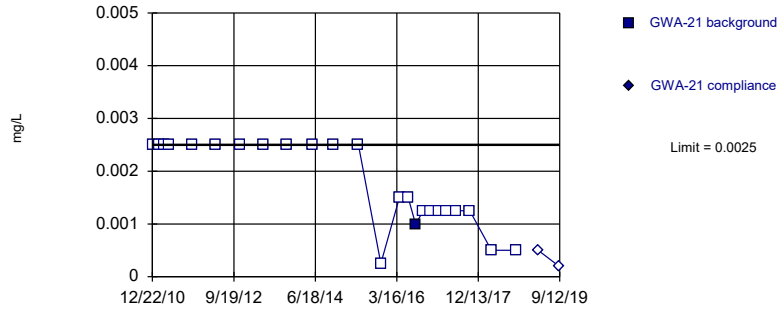
# Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 1/27/2020, 10:53 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Silver, Total (mg/L)	GWA-49	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWC-29	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWC-50	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWC-51	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWC-52	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Silver, Total (mg/L)	GWC-53	0.005	n/a	9/12/2019	0.00009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-21	0.0005	n/a	9/12/2019	0.000075ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-22	0.0005	n/a	9/12/2019	0.000075ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-45	0.0005	n/a	9/12/2019	0.000075ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-46	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-47	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-48	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWA-49	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWC-29	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWC-50	0.0005	n/a	9/12/2019	0.000075ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWC-51	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWC-52	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Thallium, Total (mg/L)	GWC-53	0.0005	n/a	9/12/2019	0.000075ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-21	0.005	n/a	9/12/2019	0.0031	No	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-22	0.0052	n/a	9/12/2019	0.0025	No	19	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-45	0.005	n/a	9/12/2019	0.0017	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-46	0.00611	n/a	9/12/2019	0.0033	No	18	22.22	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-47	0.03514	n/a	9/12/2019	0.0075	No	19	10.53	None	sqrt(x)	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-48	0.02128	n/a	9/12/2019	0.019	No	18	5.556	None	x^2	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-49	0.02269	n/a	9/12/2019	0.02	No	19	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-29	0.006814	n/a	9/12/2019	0.0054	No	19	10.53	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-50	0.00463	n/a	9/12/2019	0.0028	No	19	47.37	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-51	0.006564	n/a	9/12/2019	0.0047	No	19	26.32	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-52	0.01428	n/a	9/12/2019	0.011	No	17	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-53	0.0065	n/a	9/12/2019	0.000495ND	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-21	0.01	n/a	9/12/2019	0.0046	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-22	0.01	n/a	9/12/2019	0.0085	No	17	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-45	0.01	n/a	9/12/2019	0.0095	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-46	0.01	n/a	9/12/2019	0.0091	No	18	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-47	0.01	n/a	9/12/2019	0.0049	No	17	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-48	0.01	n/a	9/12/2019	0.0048	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-49	0.01	n/a	9/12/2019	0.0041	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-29	0.01	n/a	9/12/2019	0.0058	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-50	0.01	n/a	9/12/2019	0.0057	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-51	0.01	n/a	9/12/2019	0.0042	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-52	0.01	n/a	9/12/2019	0.0073	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-53	0.0202	n/a	9/12/2019	0.02	No	18	0	None	No	0.000...	Param Intra 1 of 2

Within Limit

Prediction Limit  
Intrawell Non-parametric

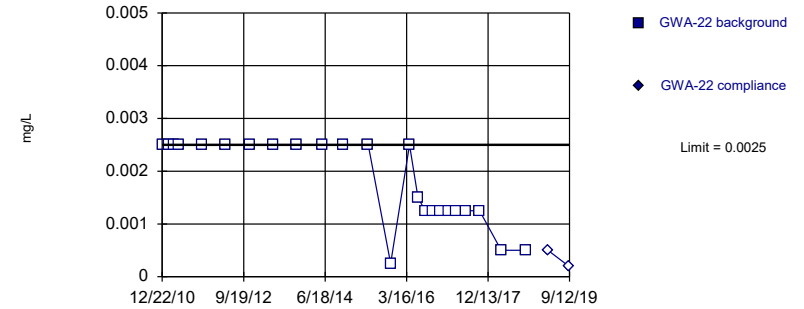


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

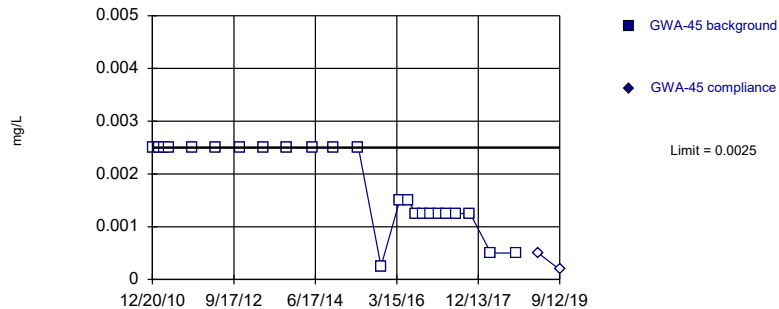


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

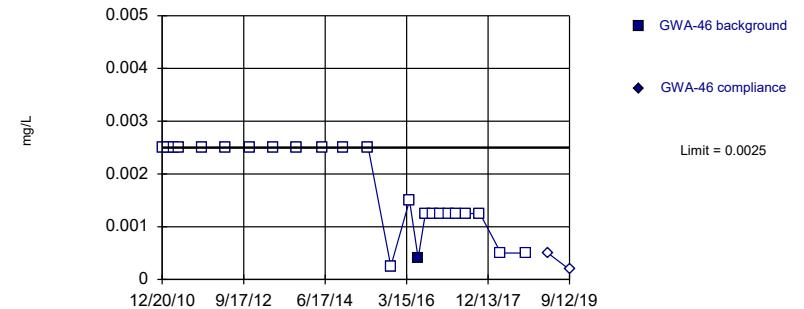


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

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).

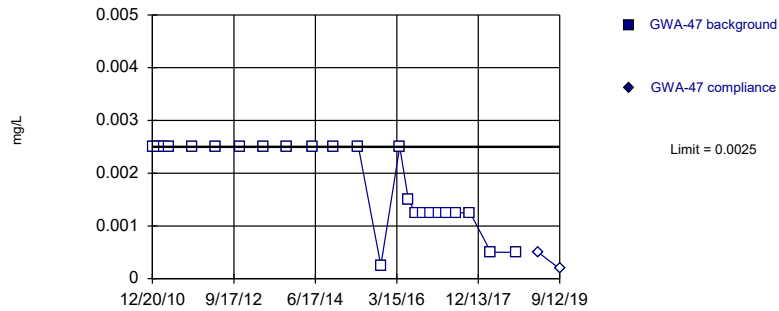
Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



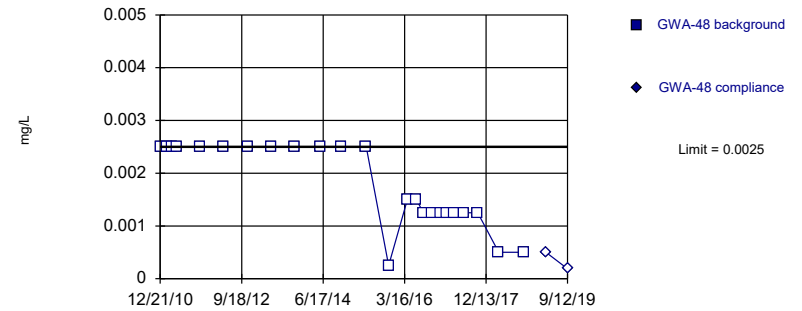
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



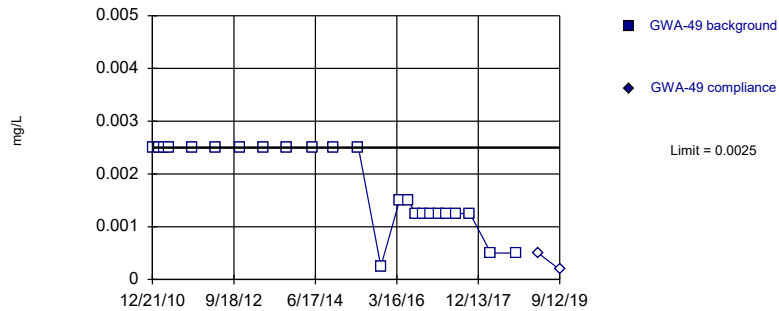
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



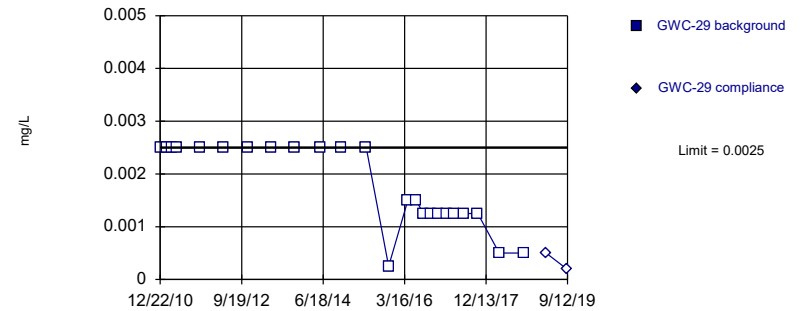
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



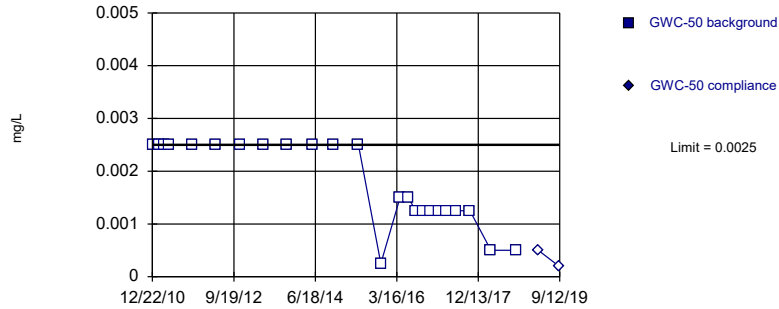
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



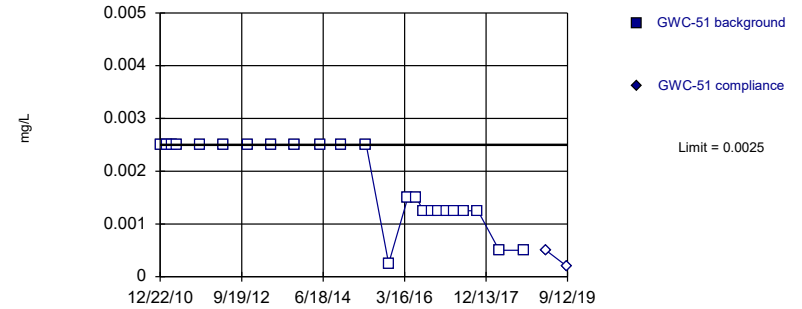
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



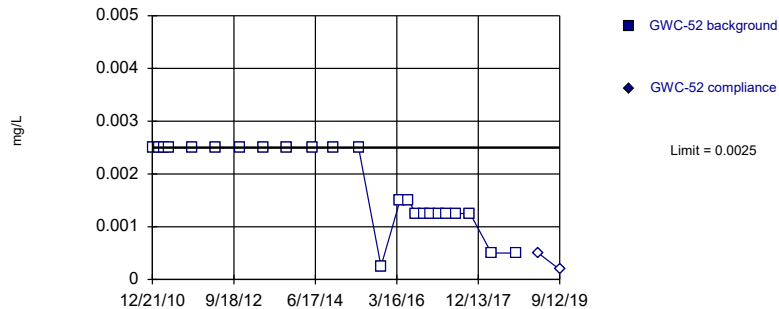
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



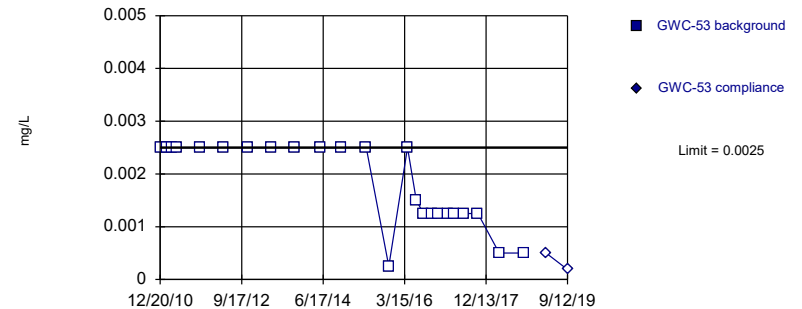
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:47 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



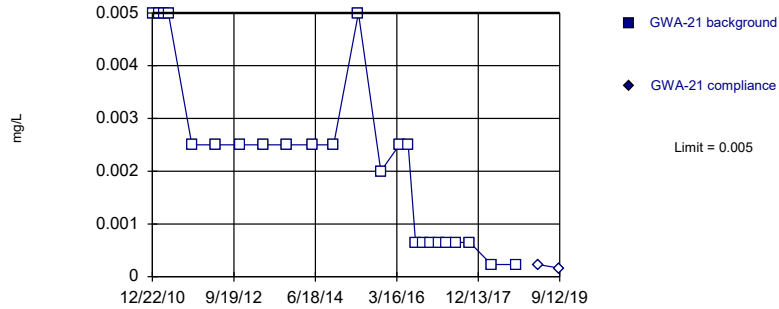
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



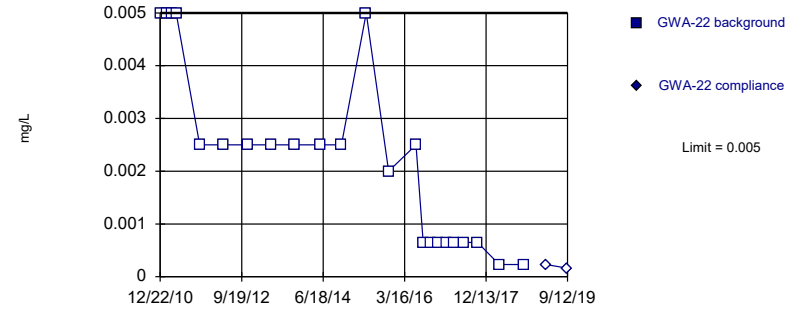
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



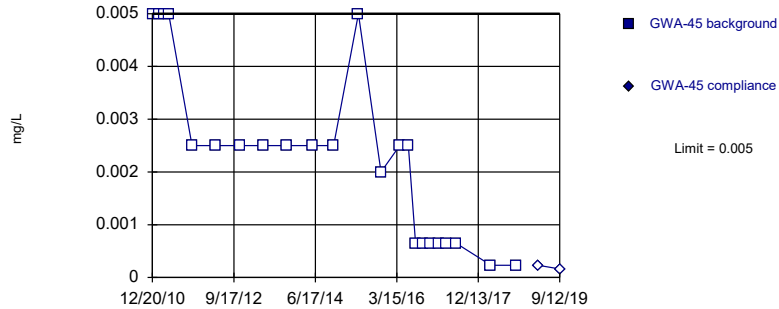
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



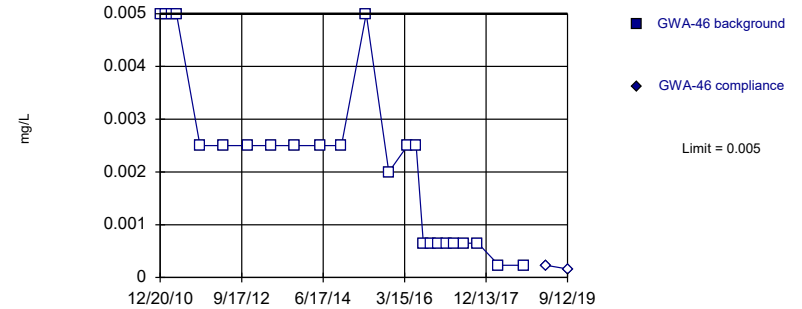
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

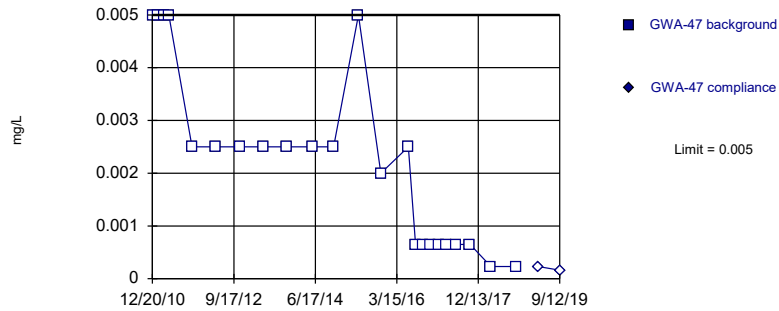


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

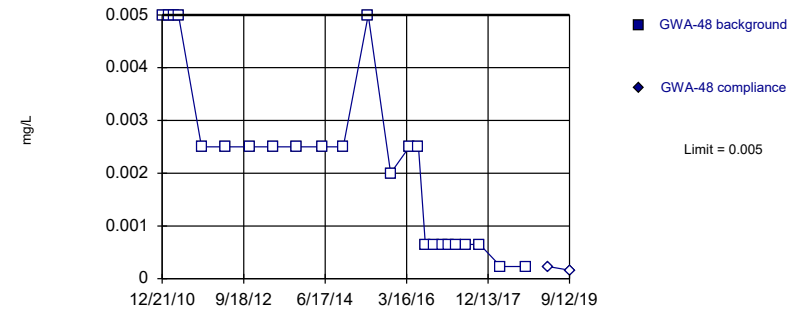


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

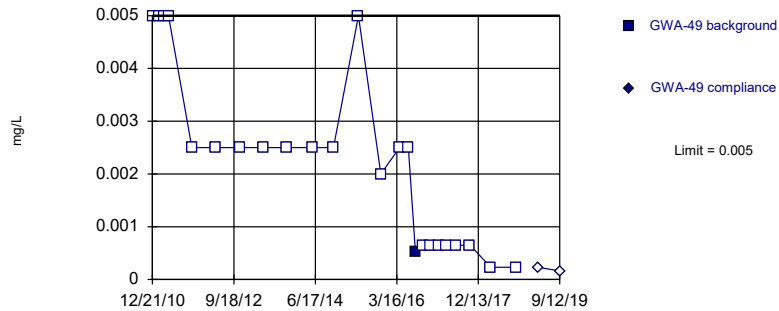


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

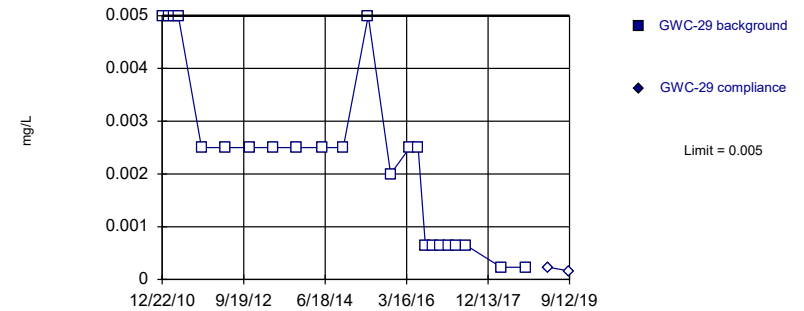


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

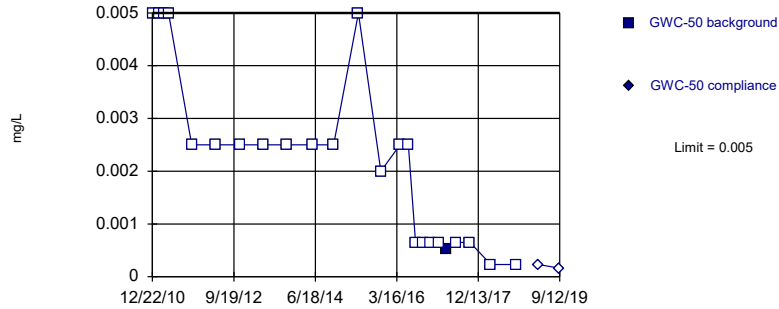


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

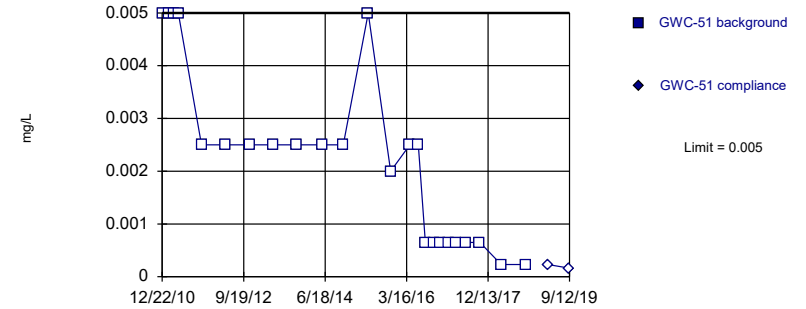


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

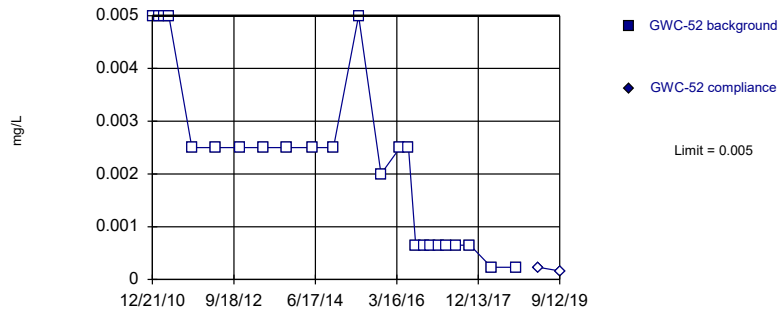


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

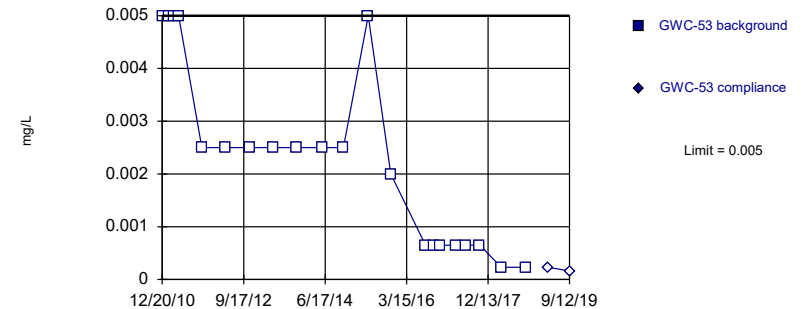


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

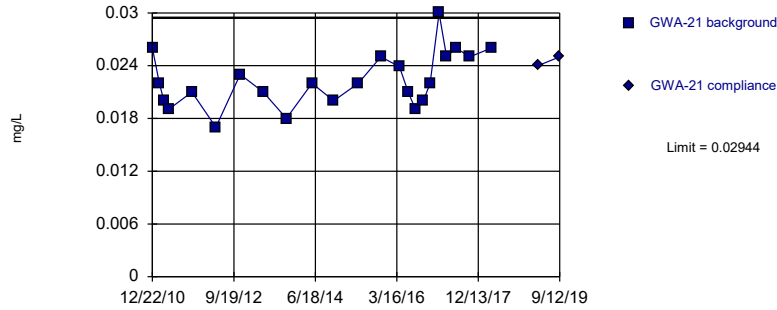
Prediction Limit  
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 100% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Arsenic, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

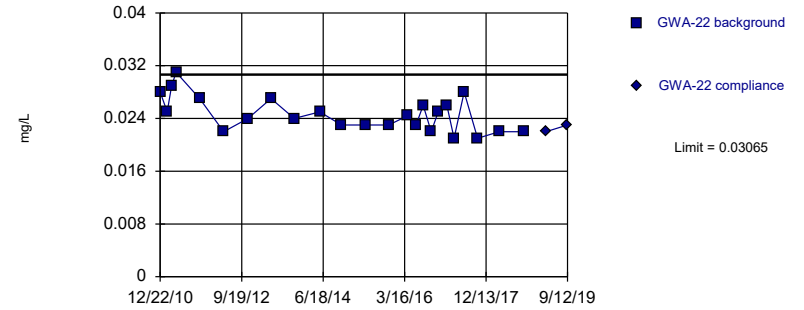
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.02234, Std. Dev.=0.003125, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9634, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

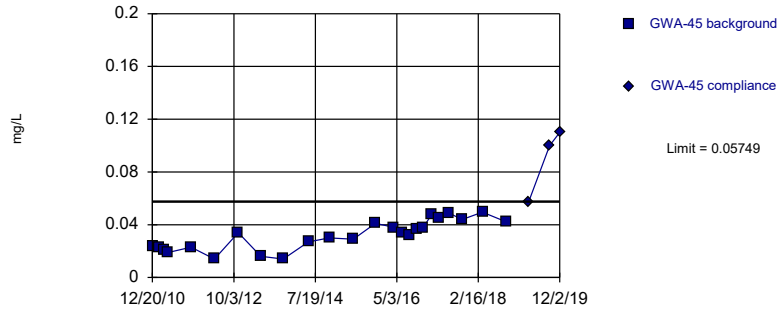
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.02464, Std. Dev.=0.002664, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

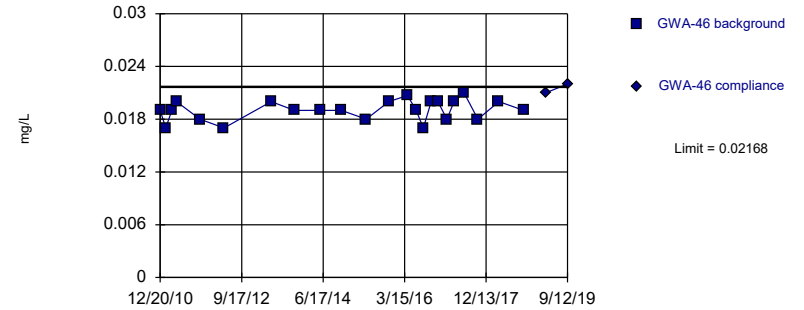
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.03215, Std. Dev.=0.01125, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

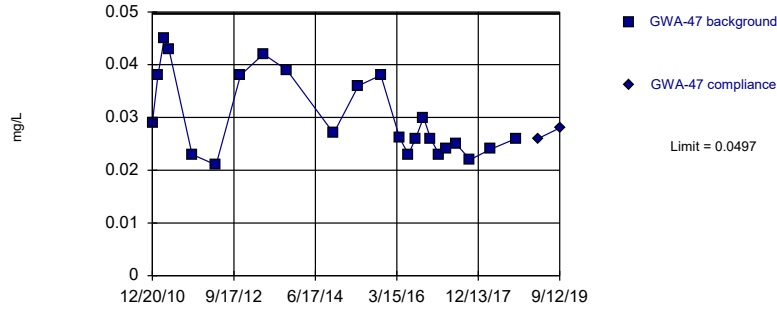
Exceeds Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01903, Std. Dev.=0.001165, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9149, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

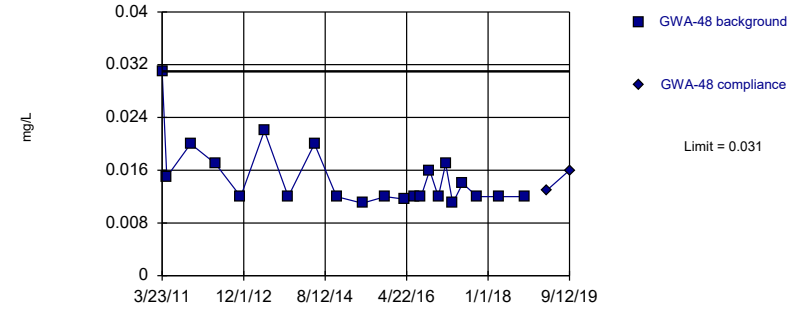
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.03093, Std. Dev.=0.02571, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8825, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

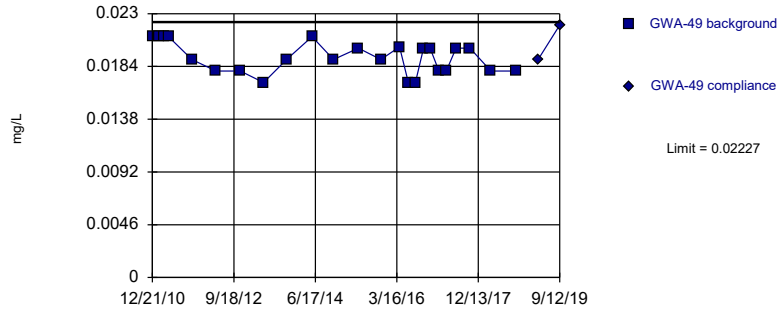
Within Limit Prediction Limit  
Intrawell Non-parametric



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. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

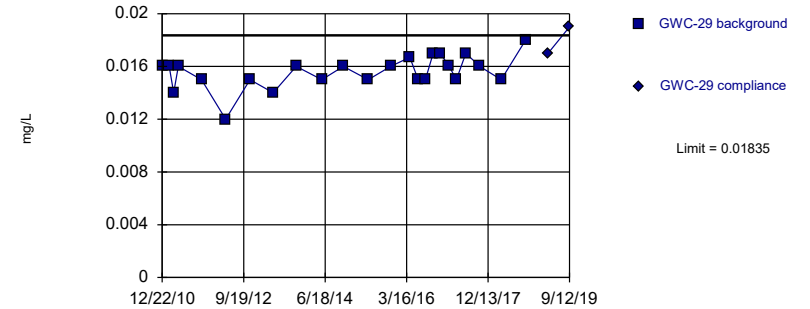
Within Limit Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01917, Std. Dev.=0.001375, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8973, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit Prediction Limit  
Intrawell Parametric

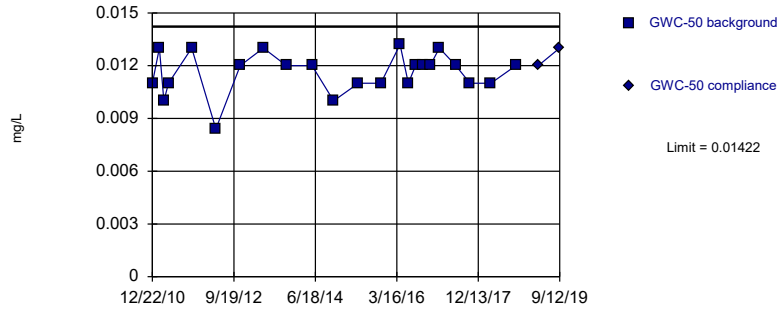


Background Data Summary: Mean=0.01557, Std. Dev.=0.001235, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9152, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

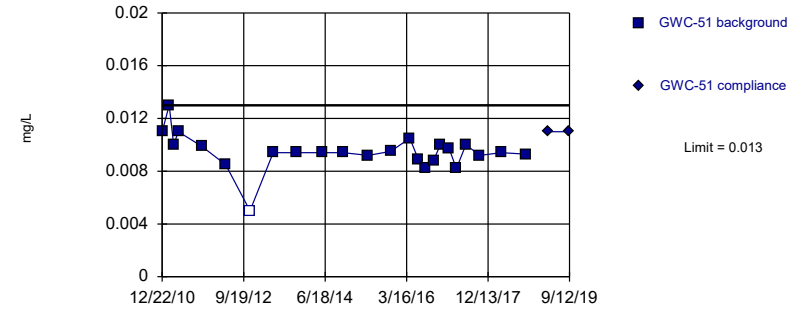


Background Data Summary: Mean=0.01159, Std. Dev.=0.001159, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLS  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

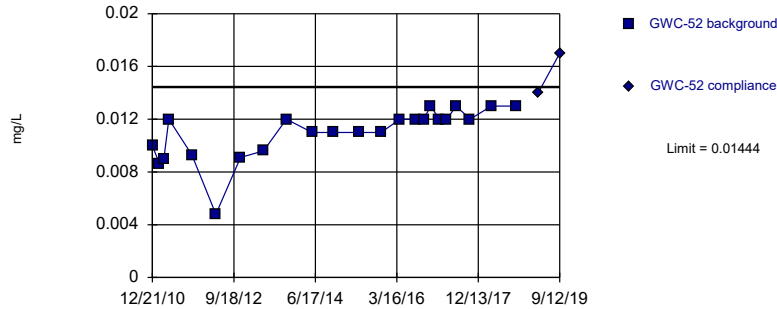


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 4.167% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLS  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit  
Intrawell Parametric

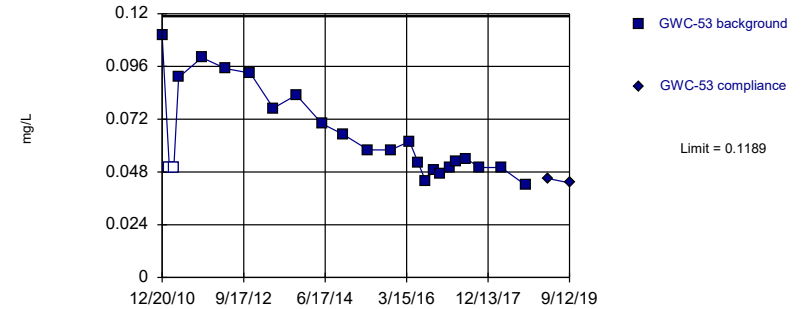


Background Data Summary (based on square transformation): Mean=0.000124, Std. Dev.=0.00003728, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8966, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLS  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-2.78, Std. Dev.=0.2886, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8947, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

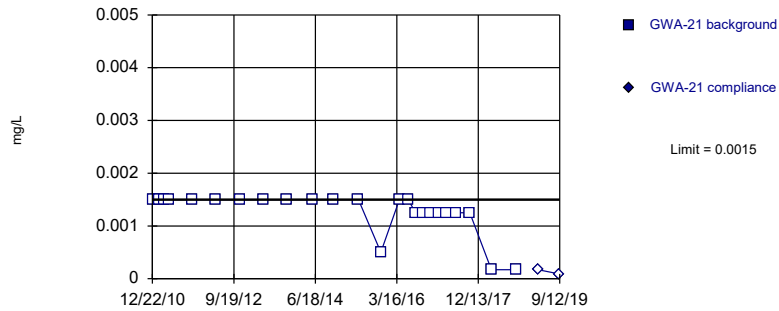
Constituent: Barium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLS  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



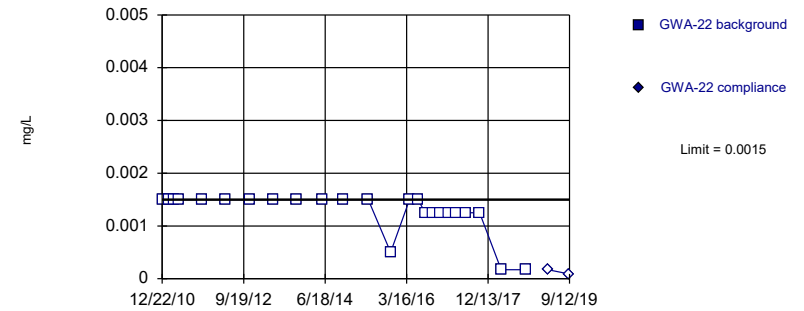
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



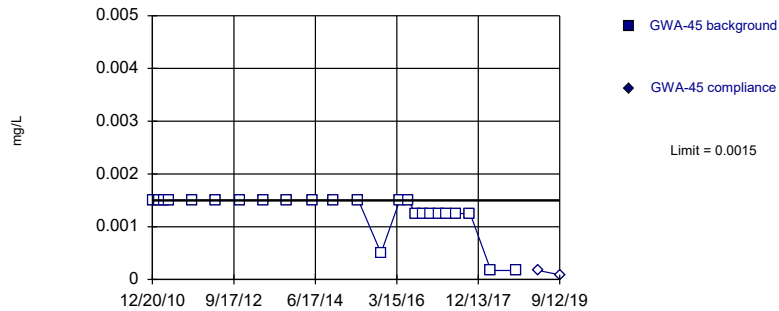
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



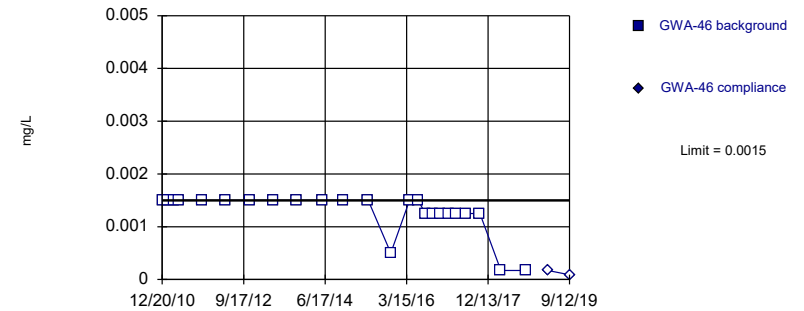
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



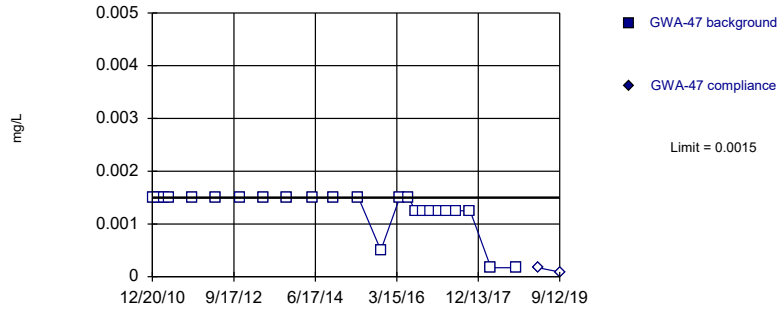
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



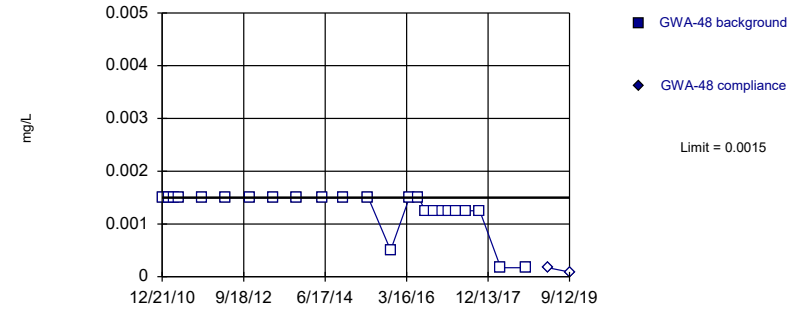
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



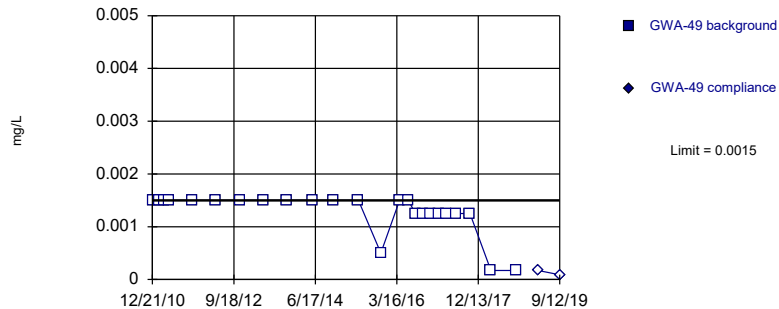
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



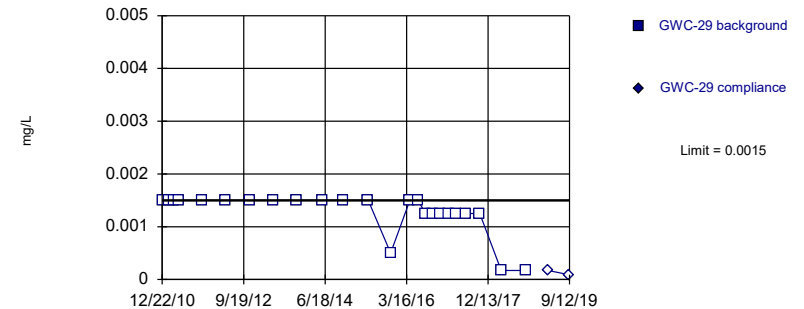
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



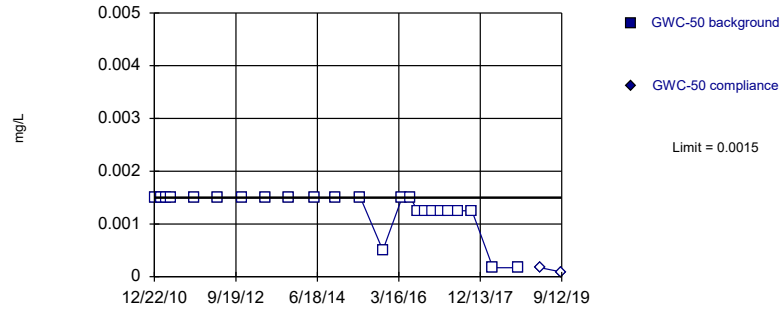
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



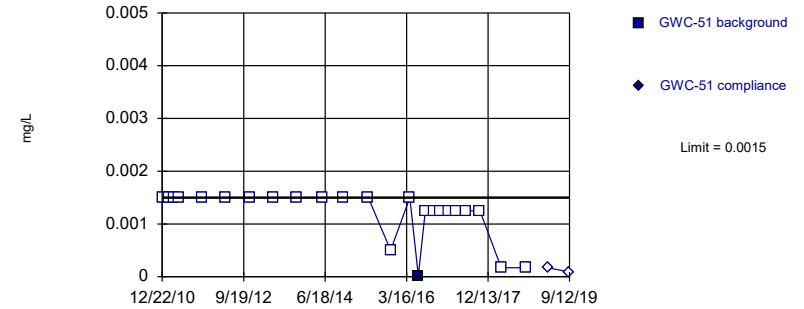
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



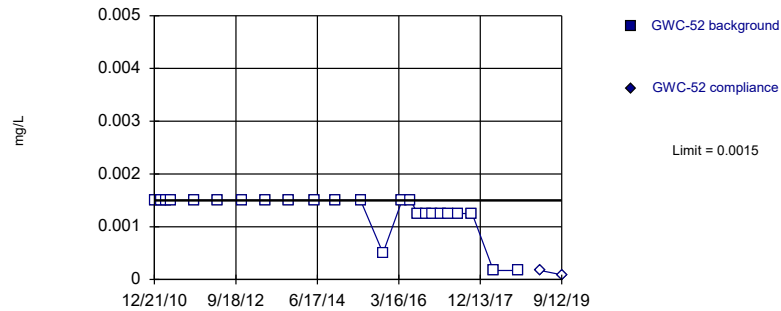
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



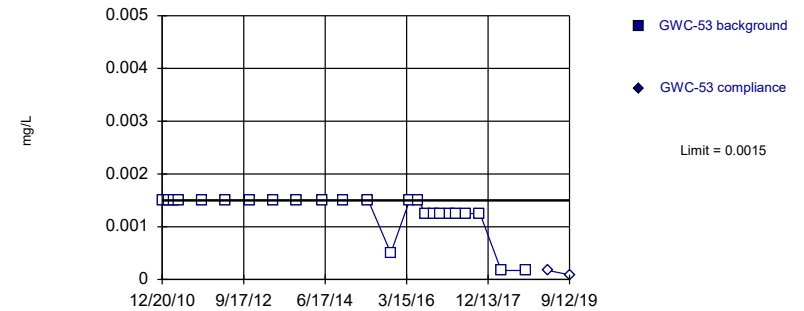
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

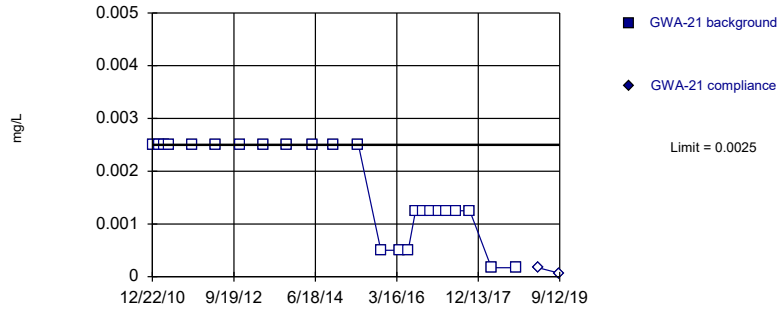


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

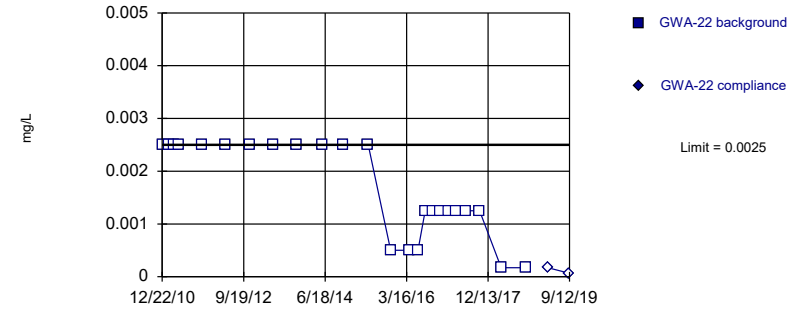


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

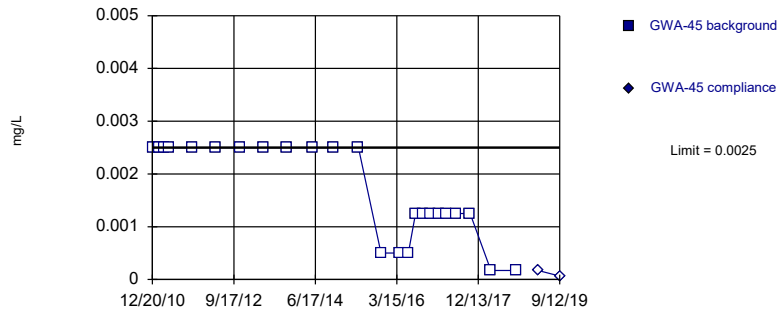


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

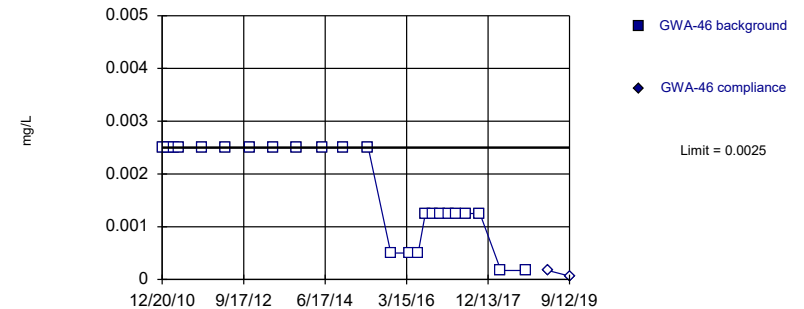


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

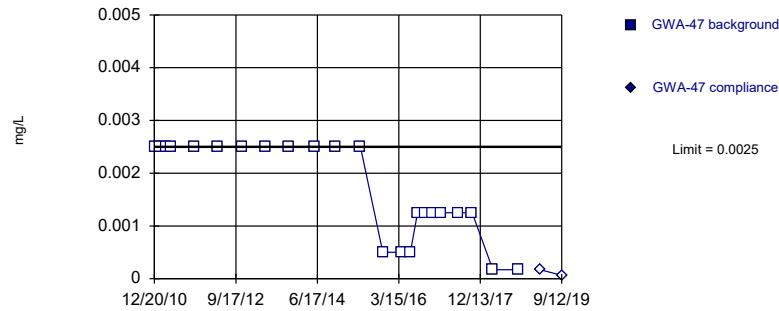


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

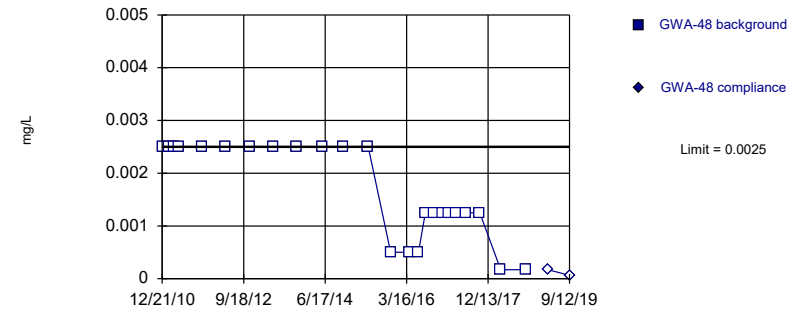


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

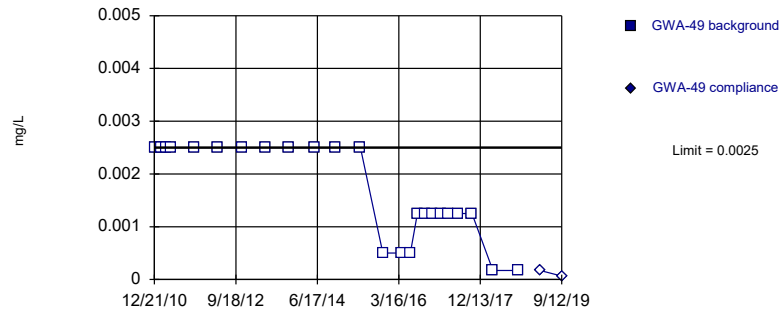


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

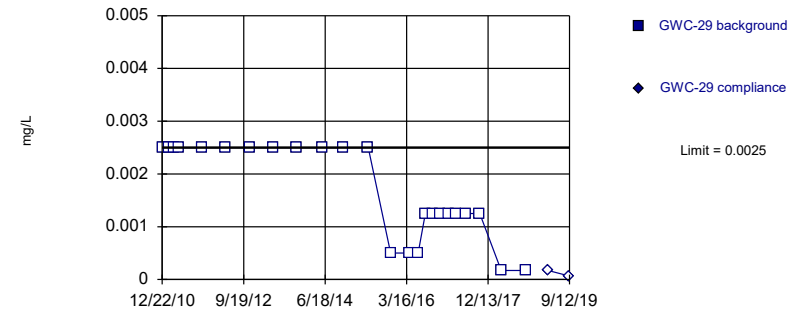


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

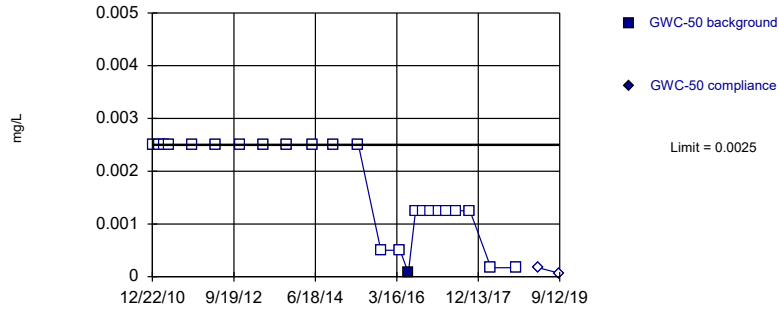


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

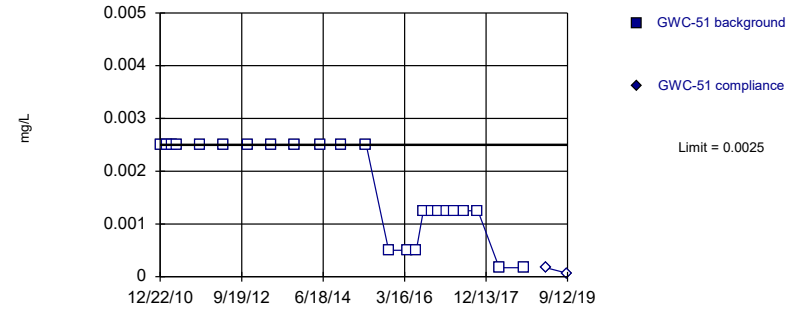


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

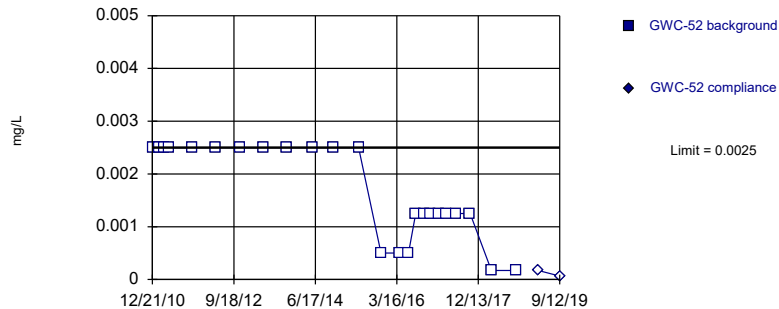


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

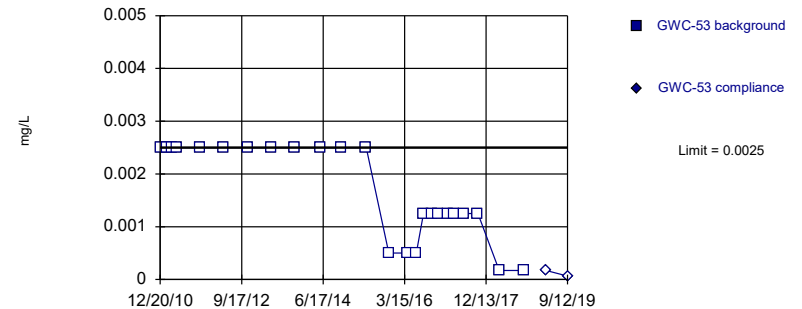


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:48 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

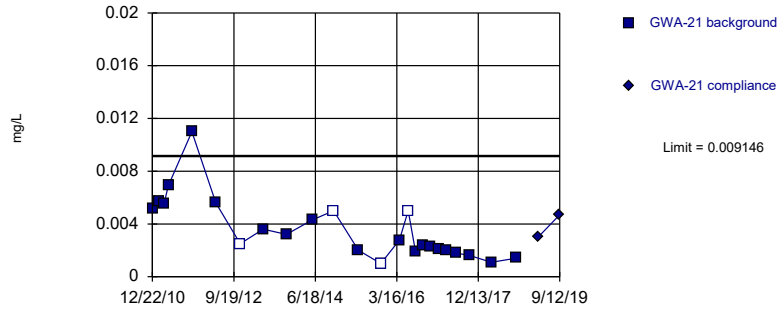


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

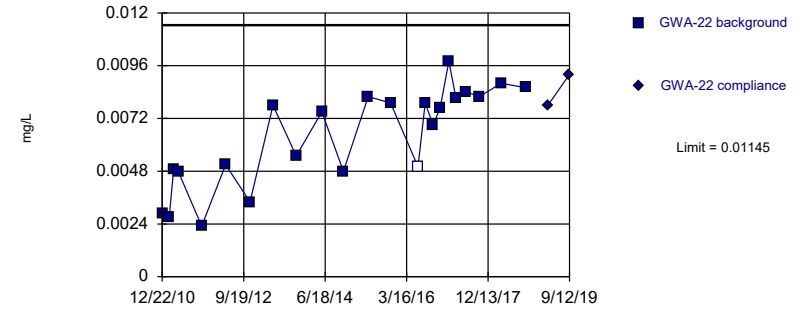


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05569, Std. Dev.=0.01773, n=24, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9343, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

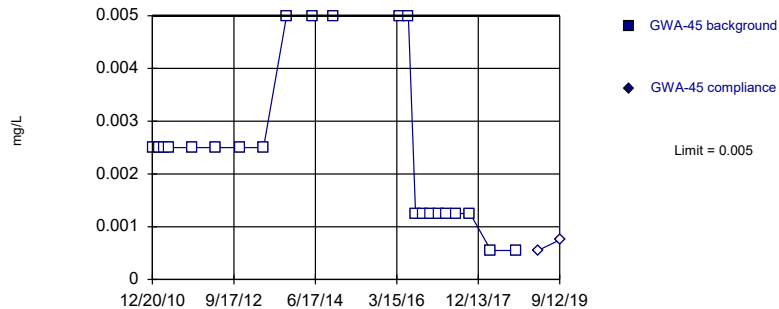


Background Data Summary: Mean=0.0064, Std. Dev.=0.002223, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

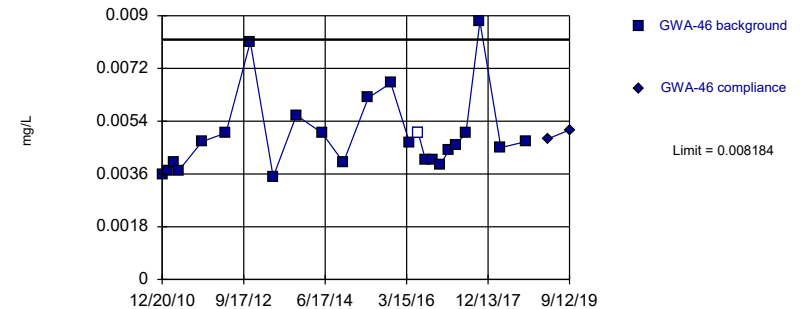


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

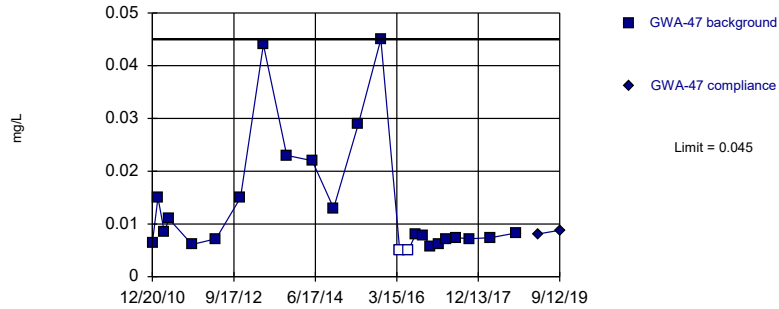
Prediction Limit  
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-5.349, Std. Dev.=0.2412, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8955, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

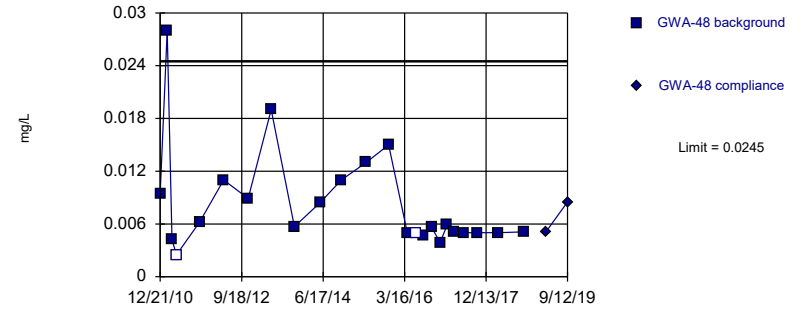
Within Limit Prediction Limit  
 Intrawell Non-parametric



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. 8.333% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

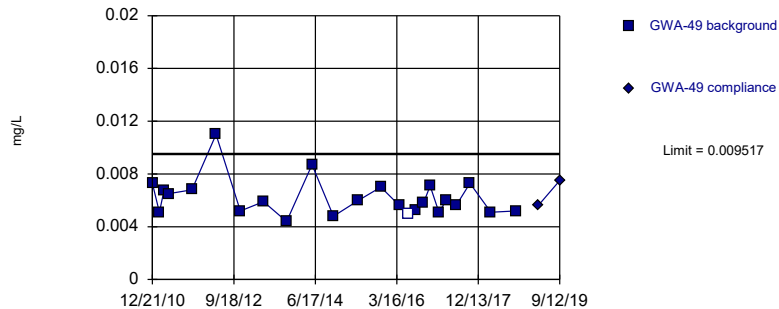
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-4.969, Std. Dev.=0.5593, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

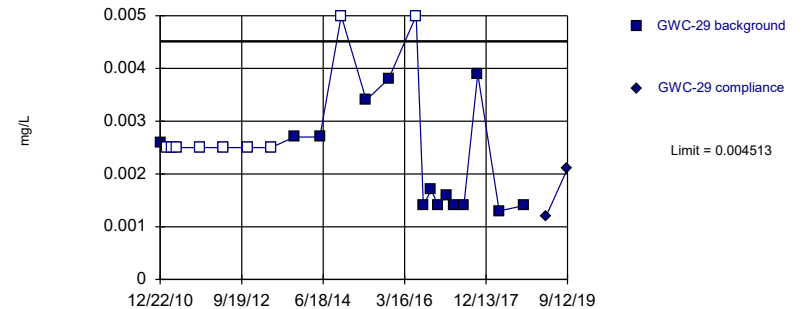
Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.07821, Std. Dev.=0.008586, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8872, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit  
 Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04451, Std. Dev.=0.009984, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8898, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

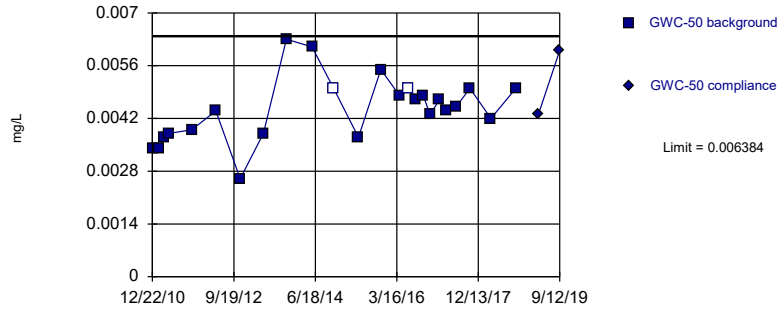
Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR



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Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



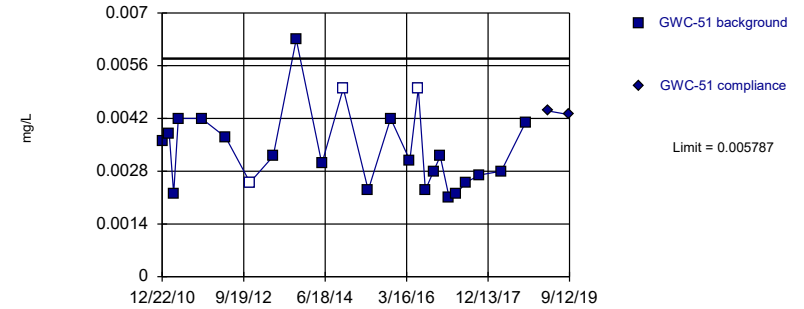
Background Data Summary: Mean=0.004458, Std. Dev.=0.0008549, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



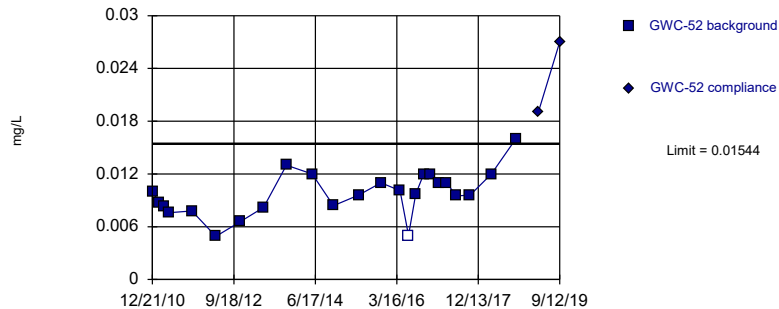
Background Data Summary: Mean=0.003375, Std. Dev.=0.001071, n=24, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit  
Intrawell Parametric



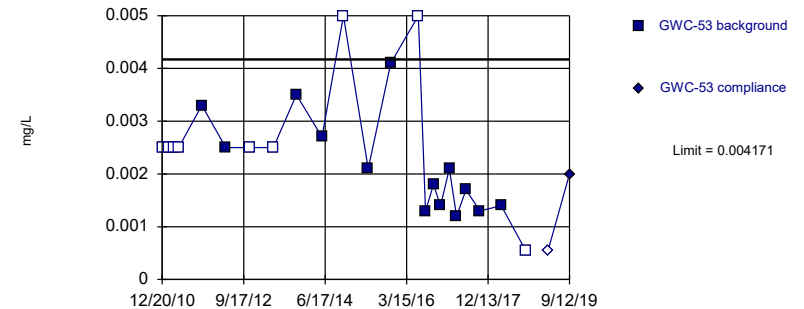
Background Data Summary: Mean=0.00975, Std. Dev.=0.002526, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric

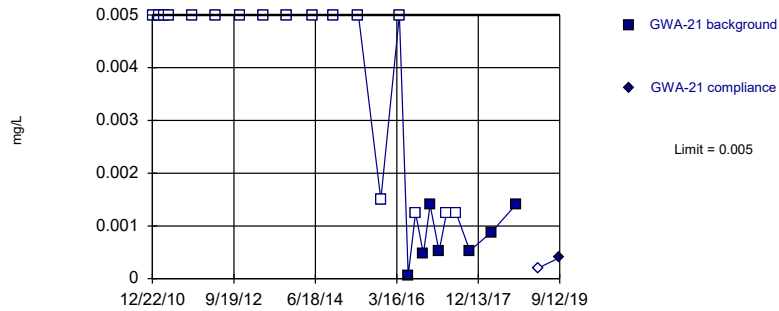


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002026, Std. Dev.=0.0009448, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.881. Kappa = 2.27 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Chromium, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

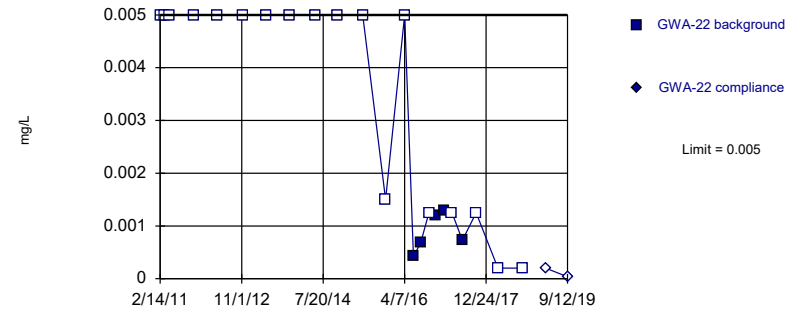


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

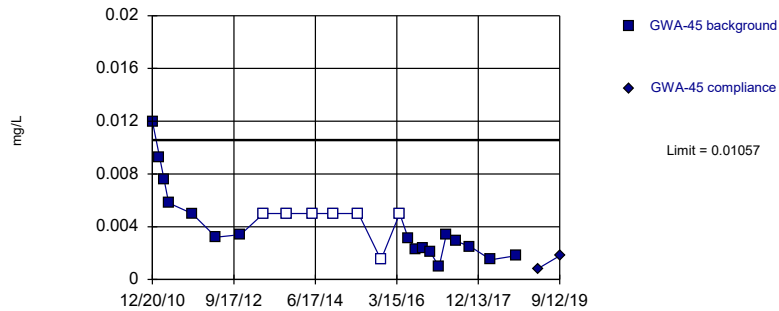


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

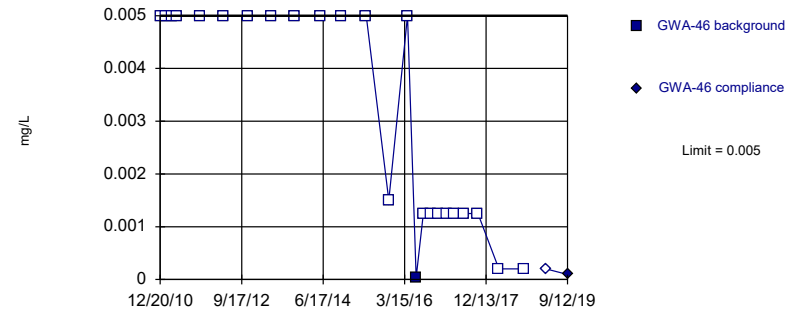


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05821, Std. Dev.=0.01979, n=24, 29.17% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



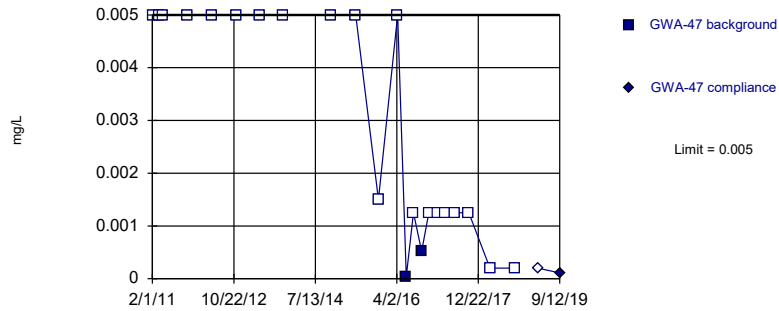
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



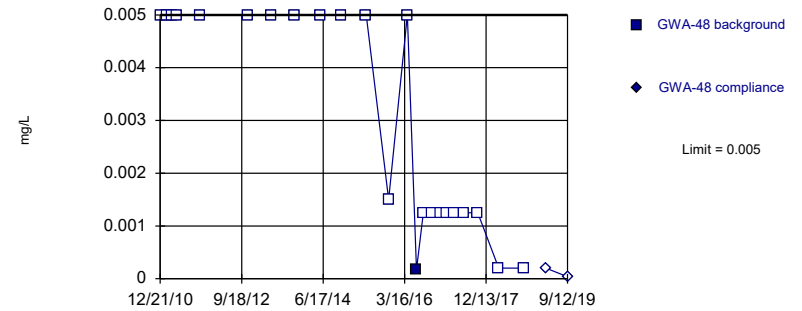
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



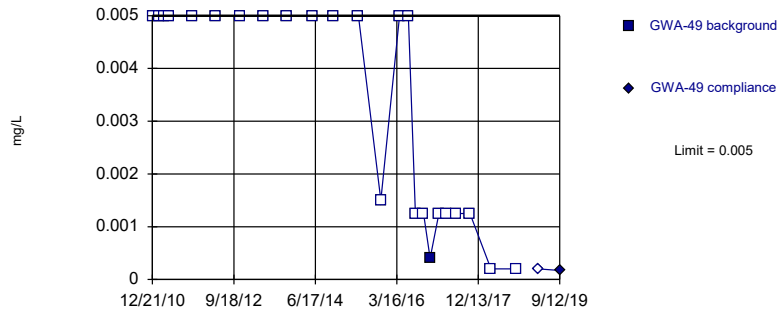
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



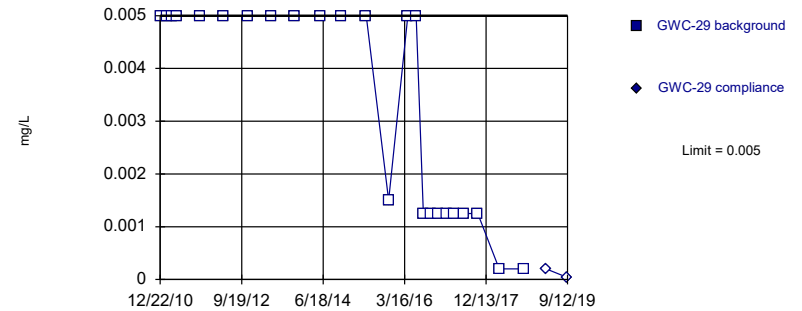
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

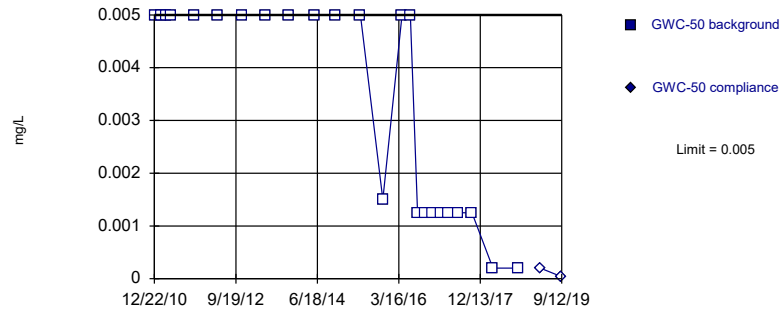


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

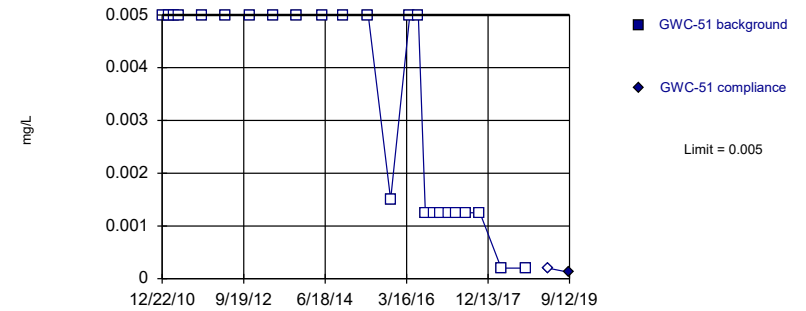


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

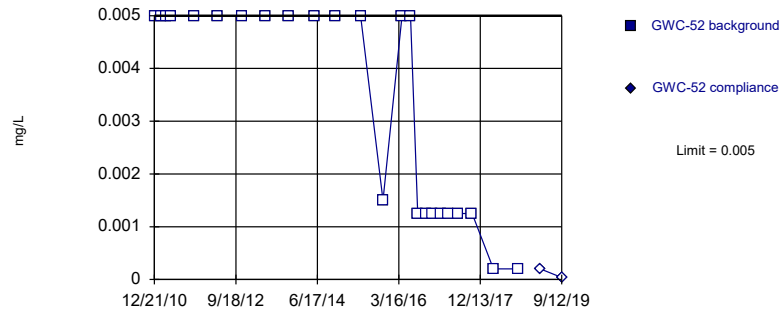


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

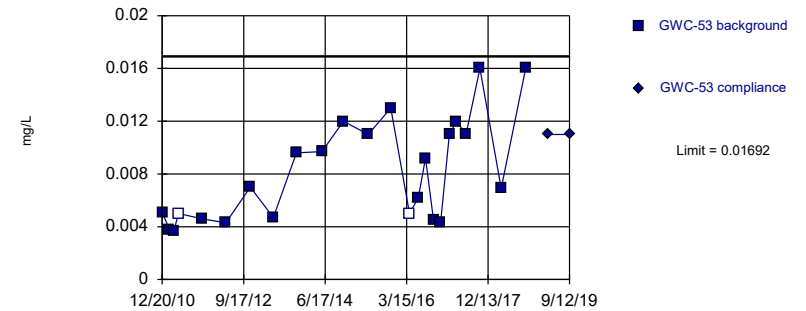


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

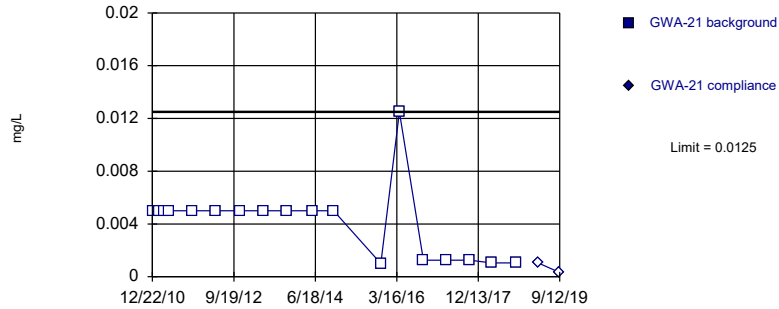


Background Data Summary: Mean=0.00815, Std. Dev.=0.003892, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8874, critical = 0.884. Kappa = 2.253 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Cobalt, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

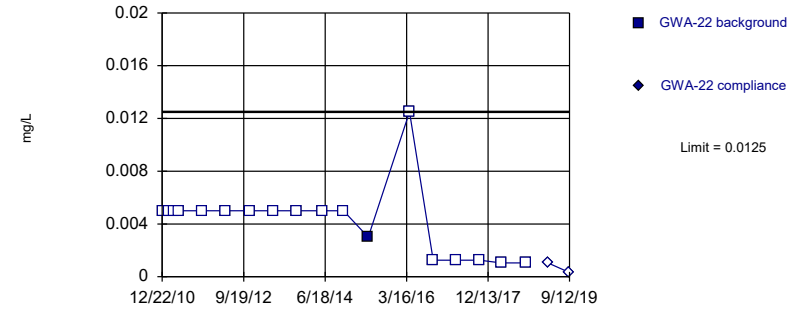


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

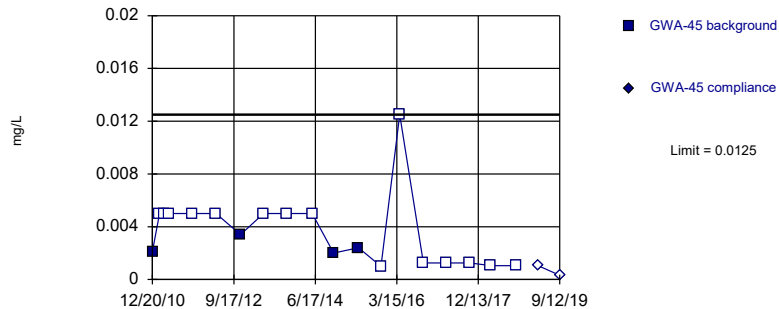


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

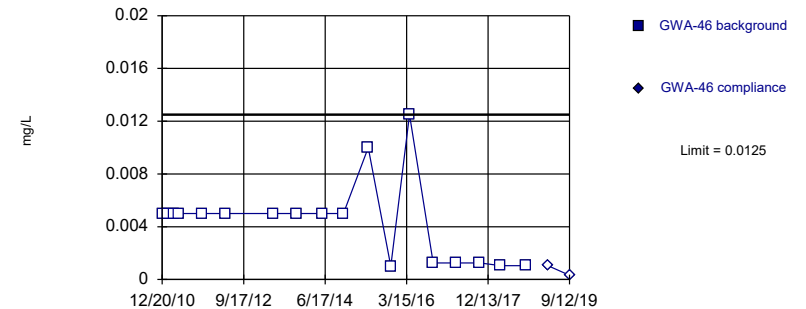


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

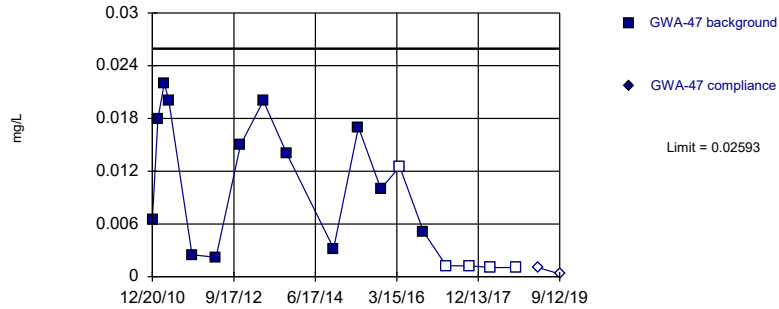


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

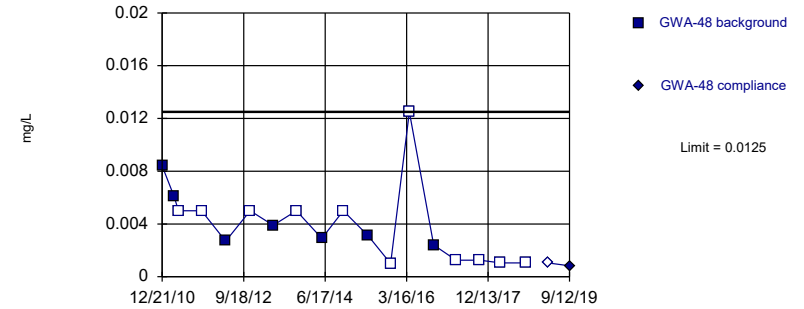


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.008897, Std. Dev.=0.007148, n=18, 27.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8731, critical = 0.858. Kappa = 2.383 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

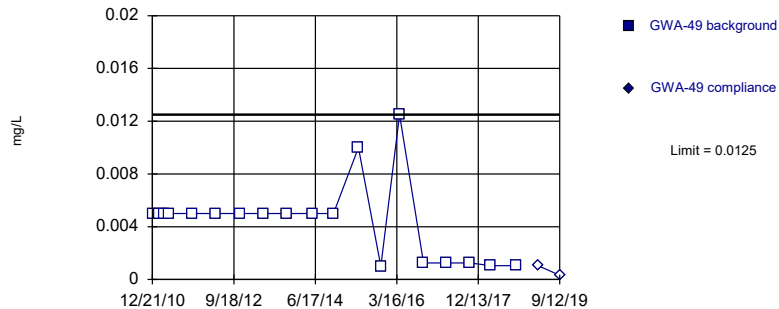


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

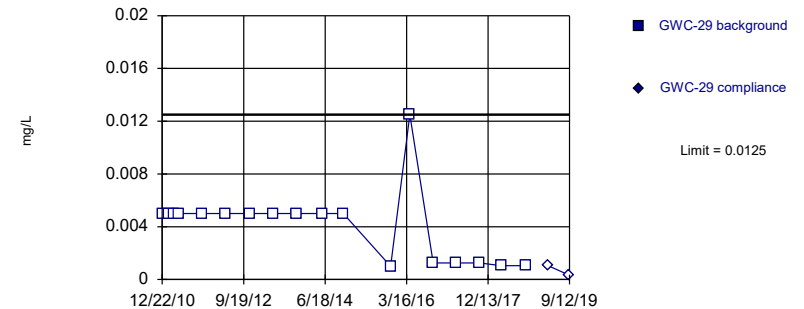


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



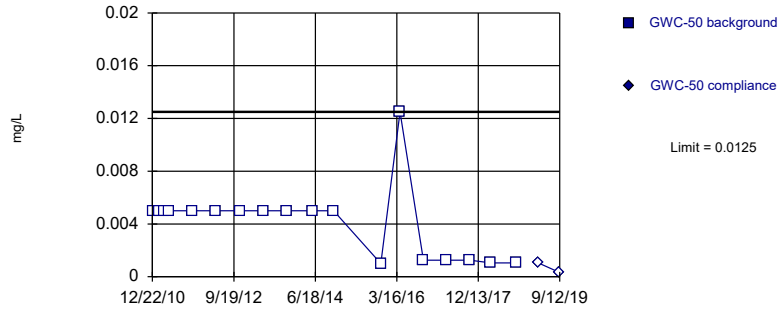
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



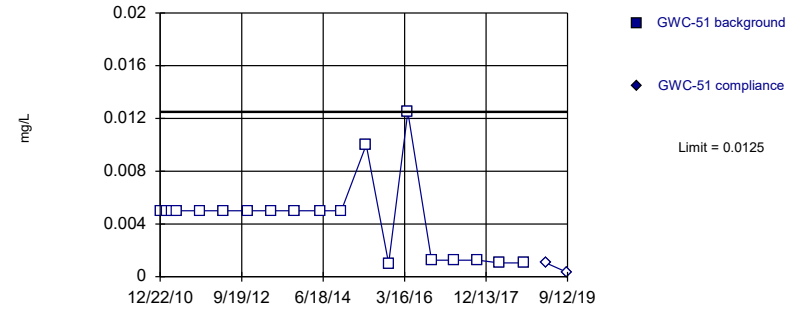
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



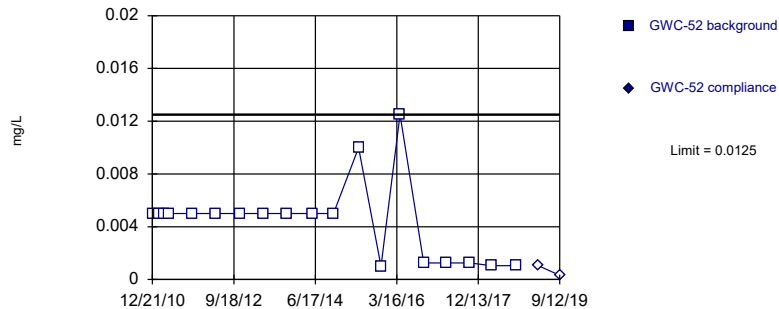
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



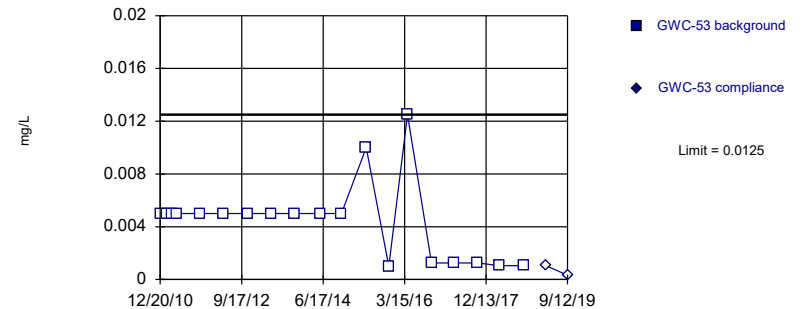
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

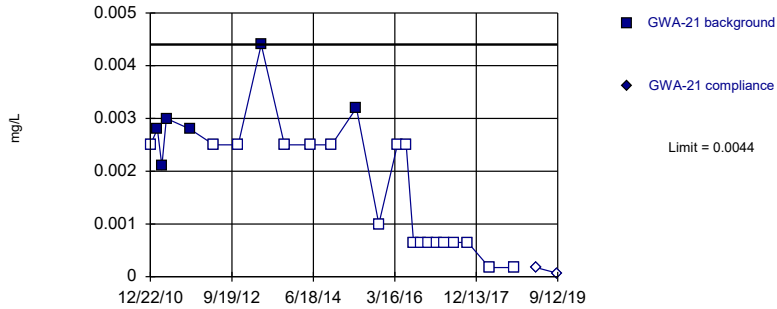


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

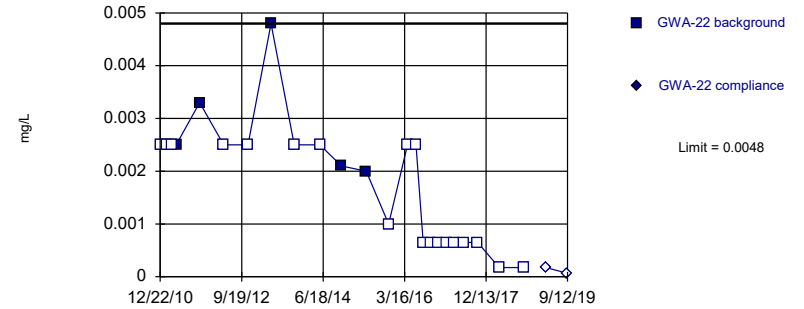


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

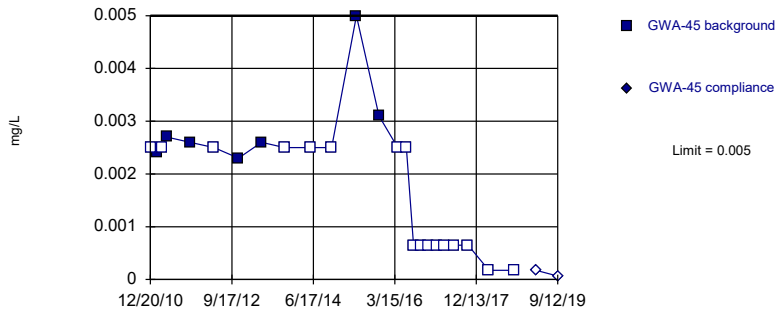


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

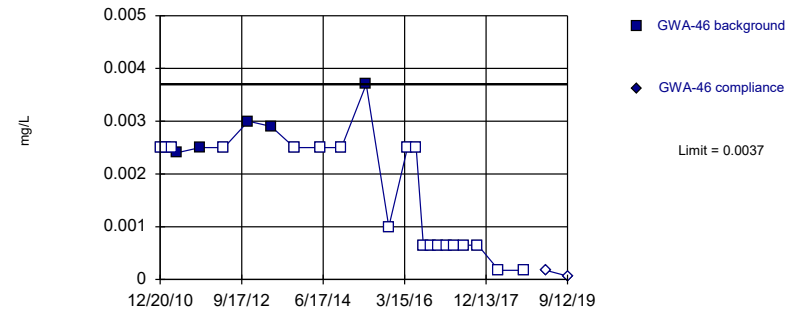


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

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. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

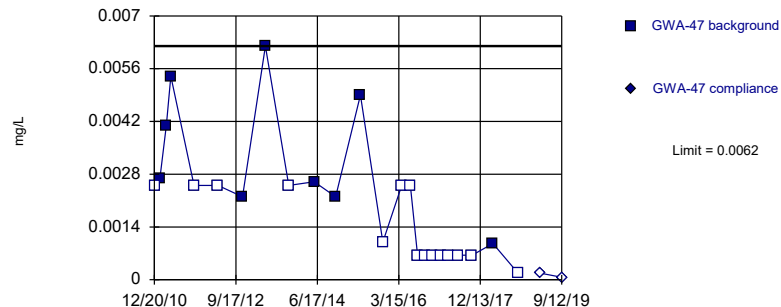
Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR



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Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



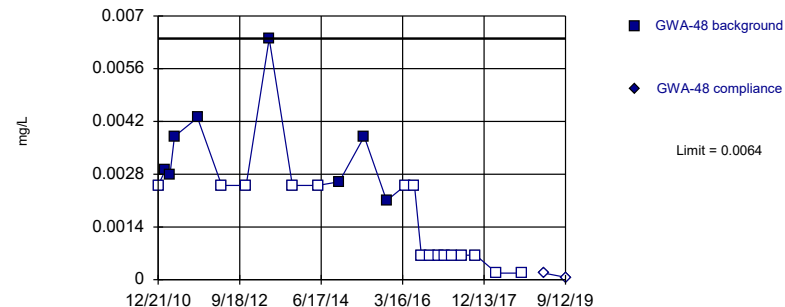
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



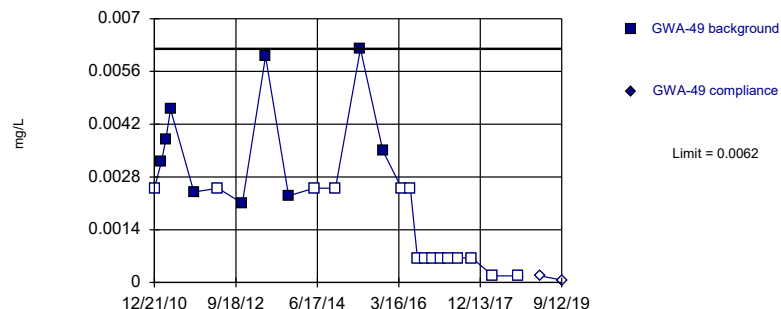
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



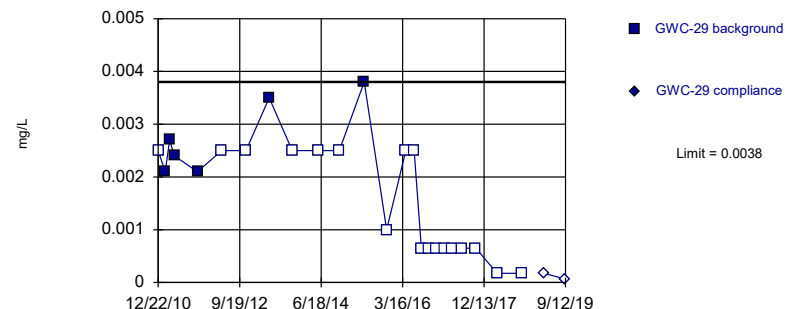
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



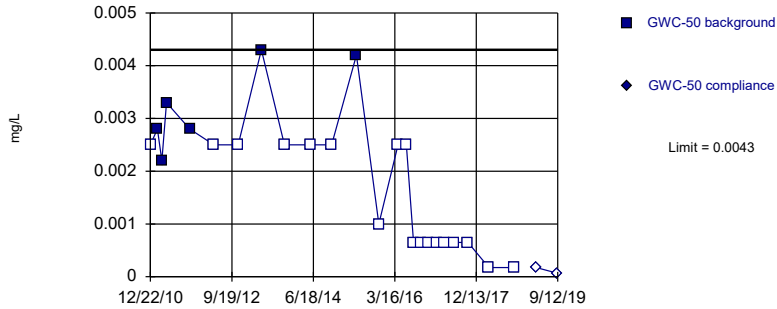
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



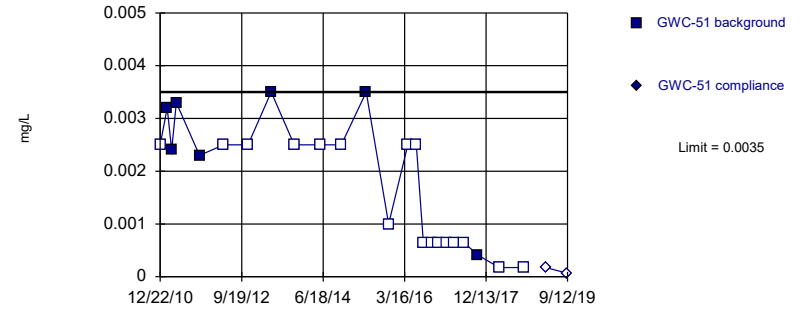
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



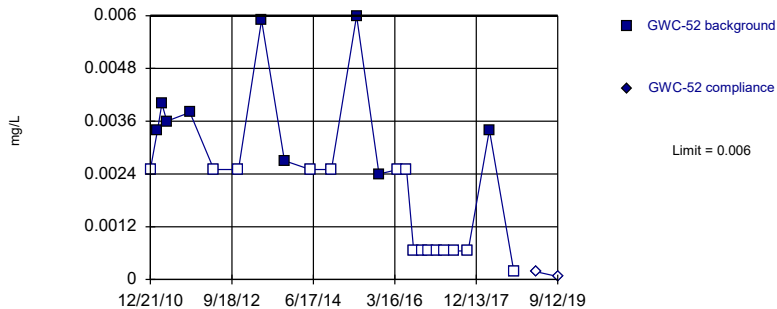
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



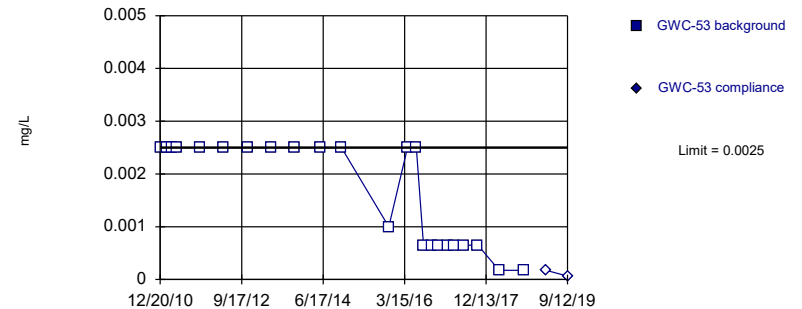
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

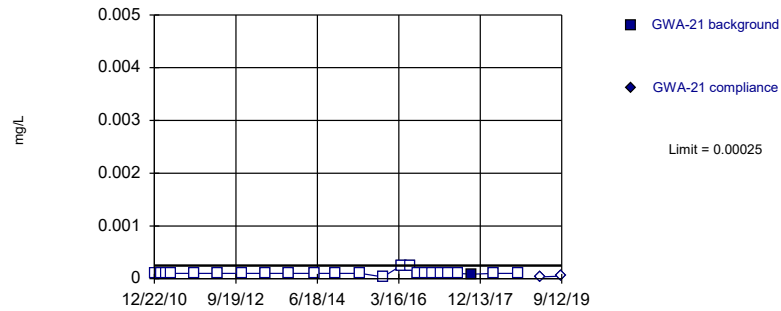


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead, Total Analysis Run 1/27/2020 10:49 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

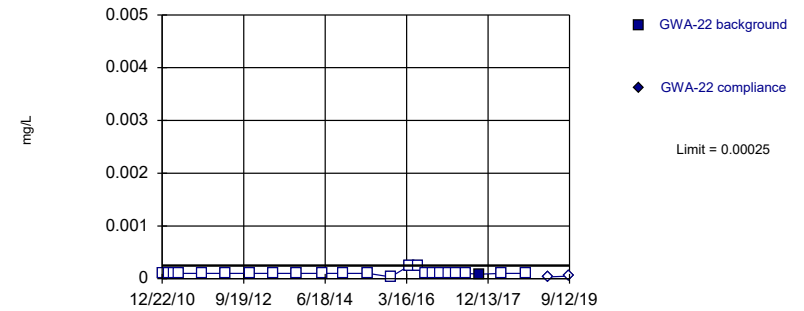


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

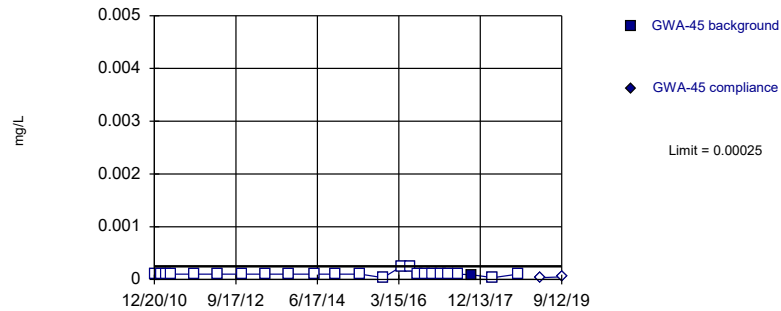


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

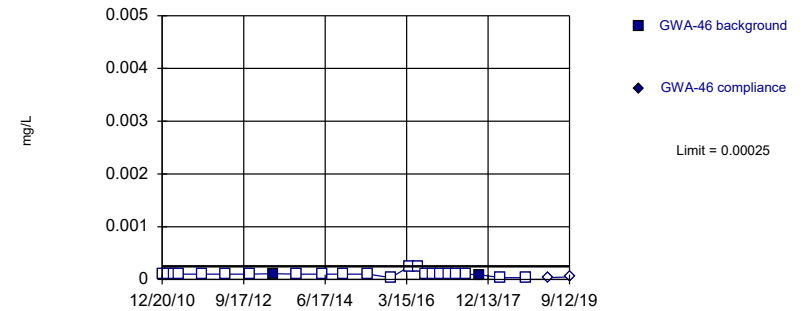


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

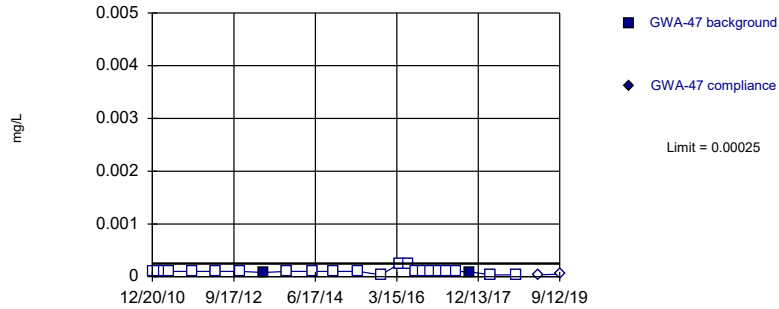


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

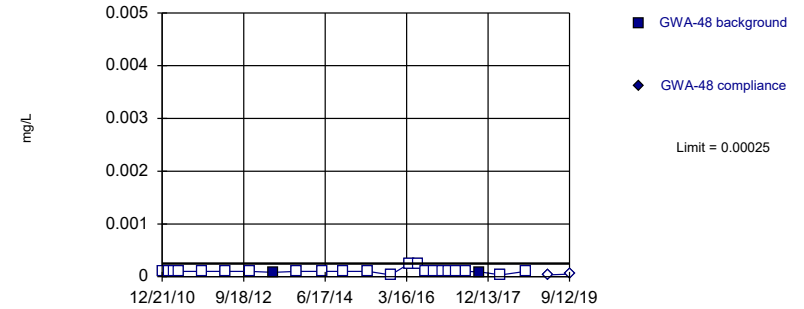


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

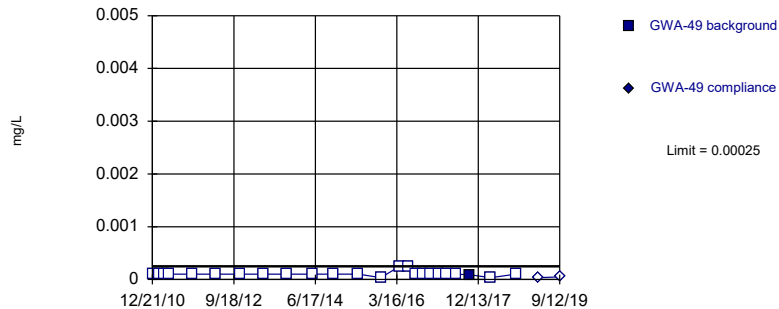


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

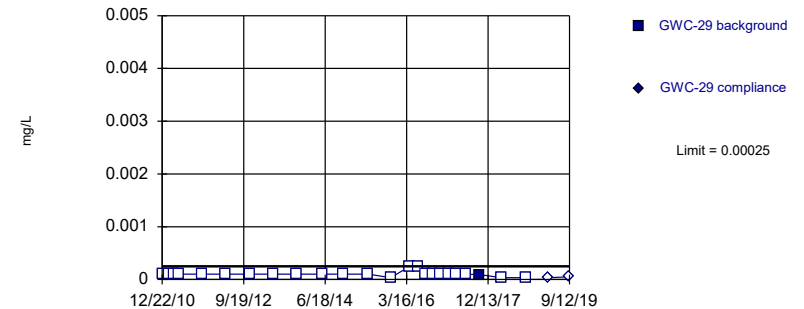


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

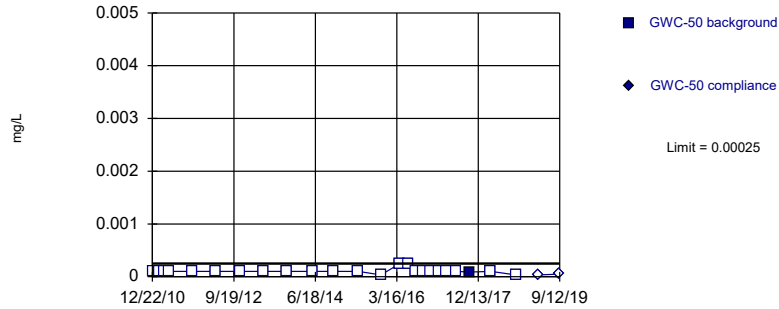


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

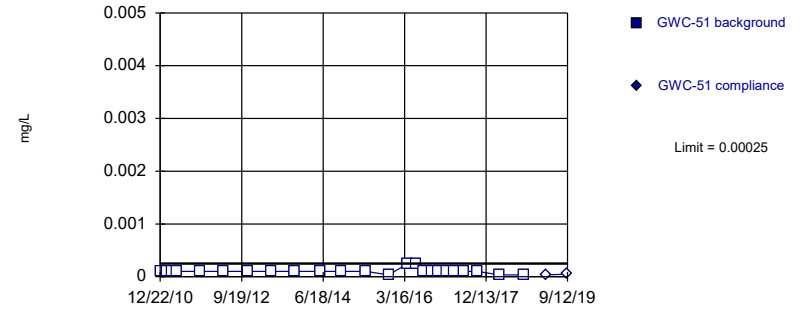


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

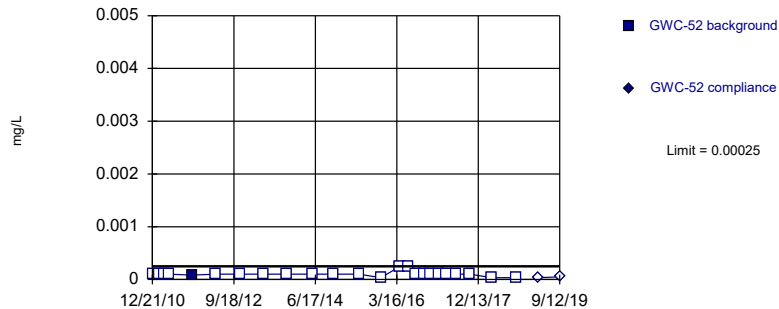


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric

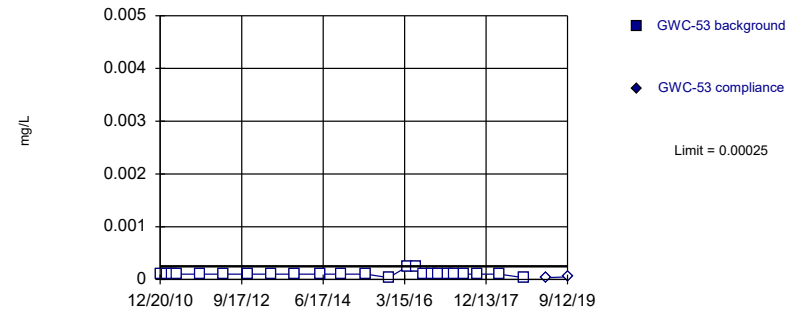


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric



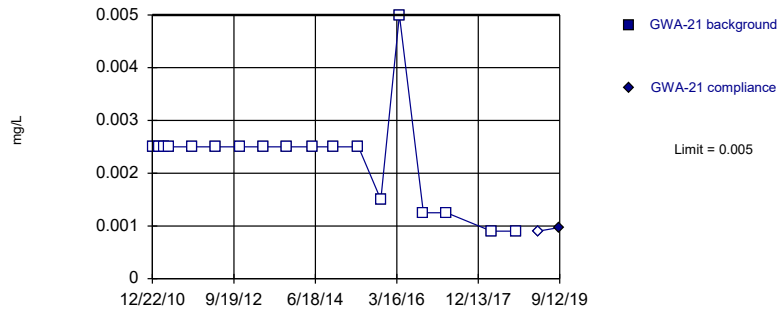
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



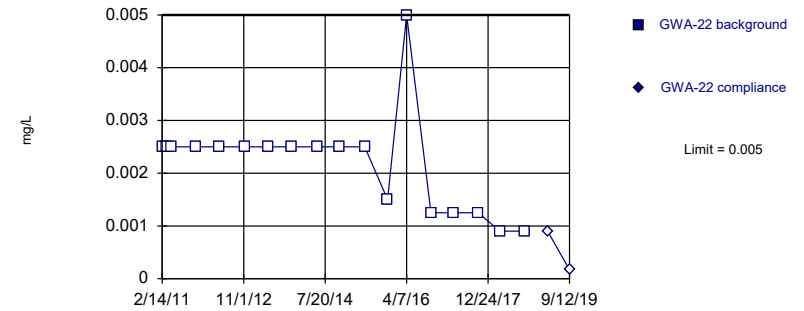
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



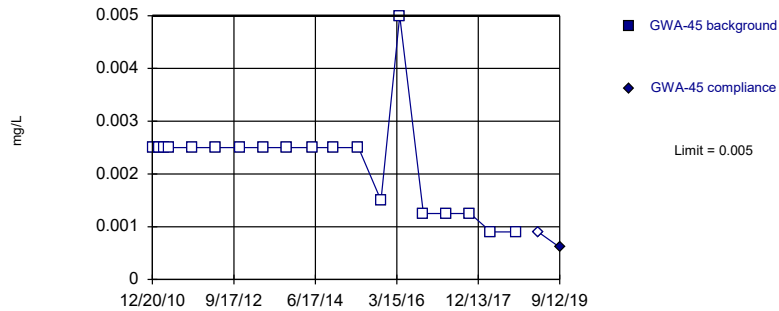
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



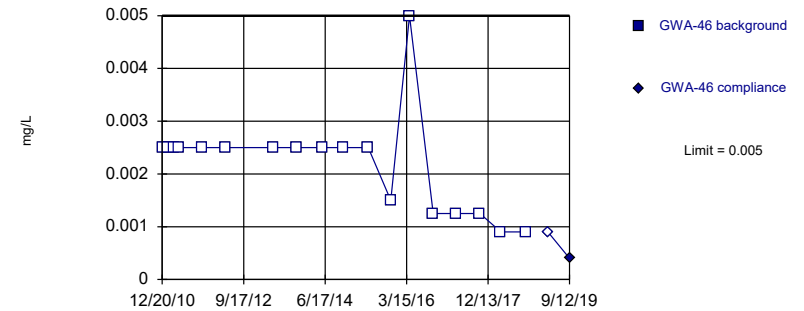
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric

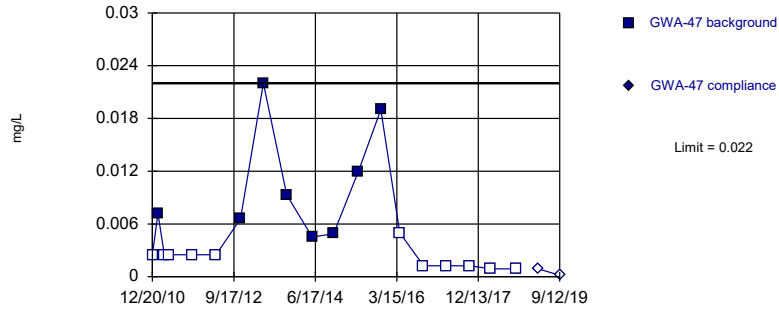


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

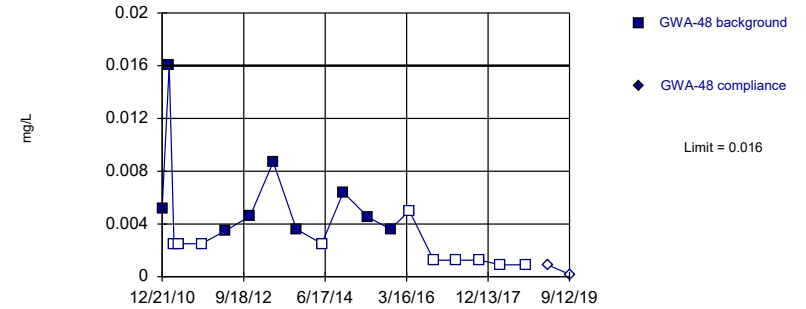


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

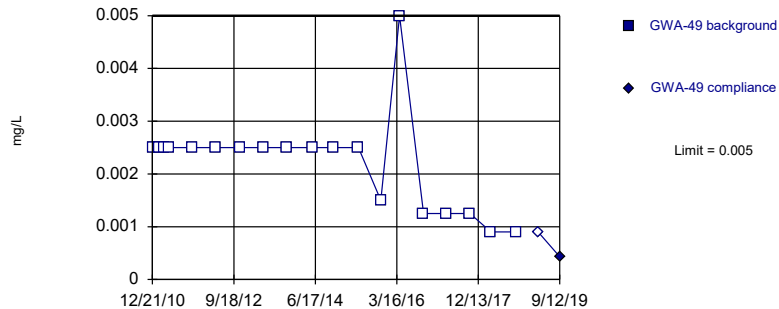


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 52.63% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

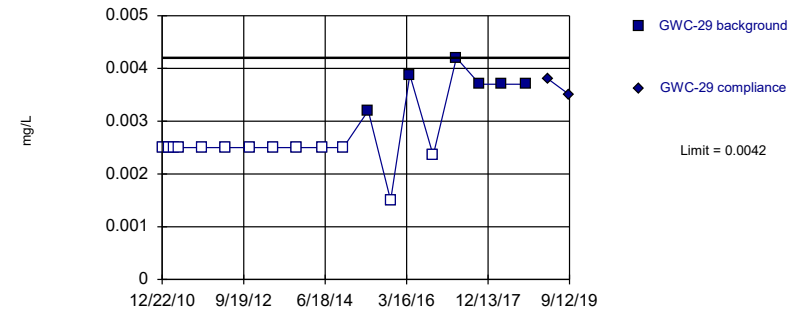


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



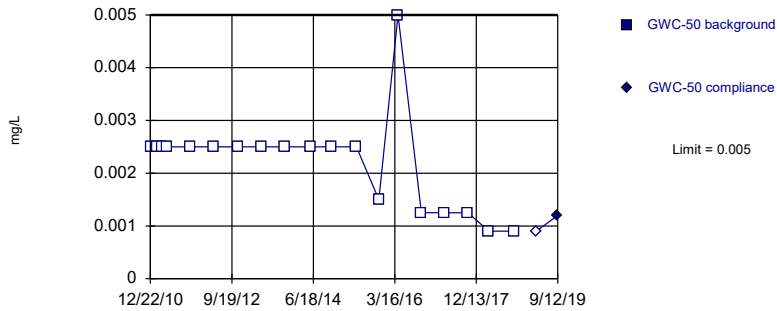
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



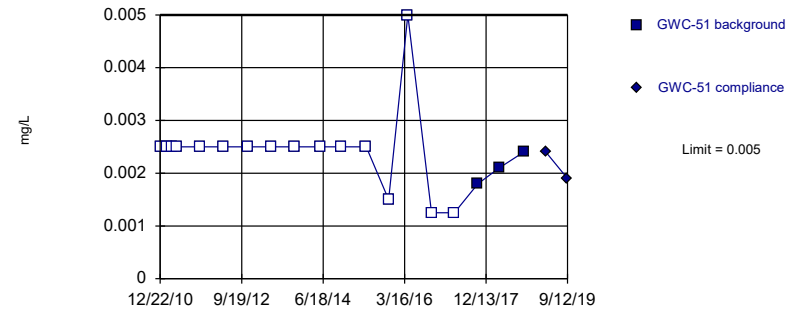
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



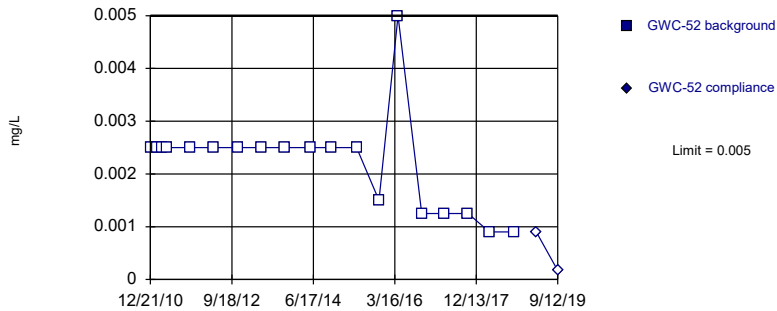
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



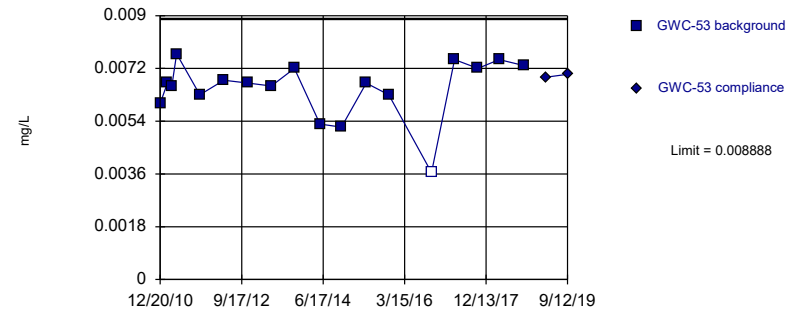
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.006514, Std. Dev.=0.0009961, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8671, critical = 0.858. Kappa = 2.383 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

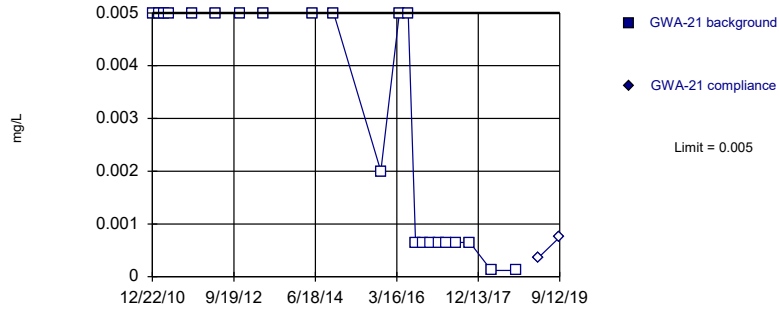
Constituent: Nickel, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



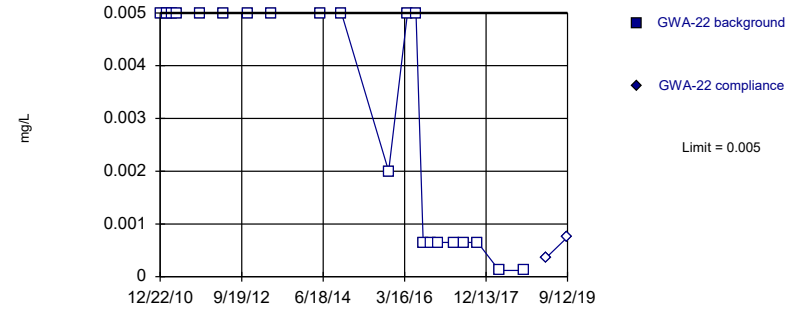
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



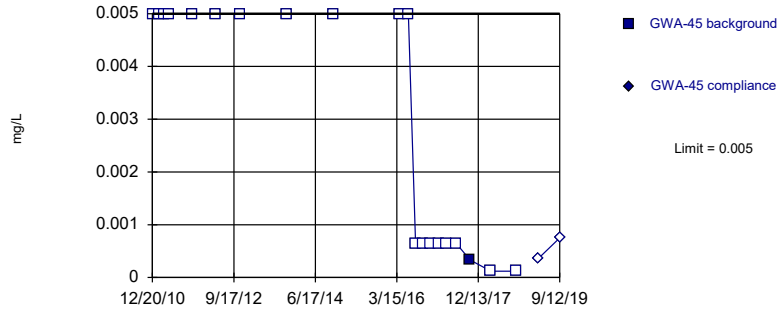
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 100% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



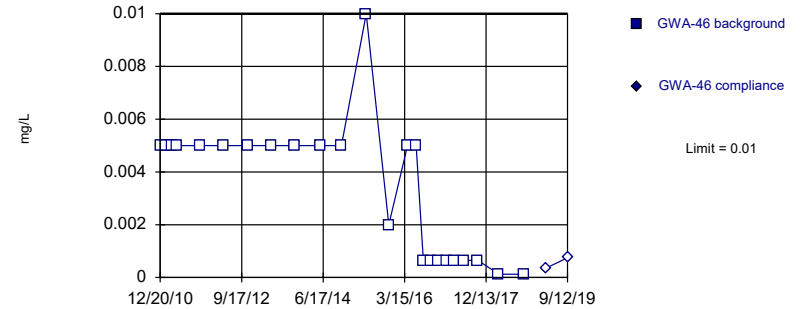
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

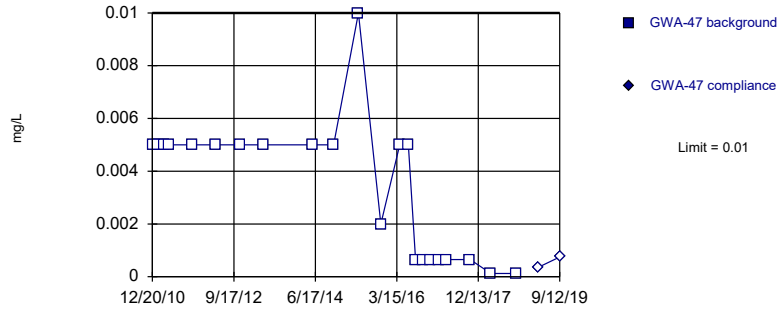


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

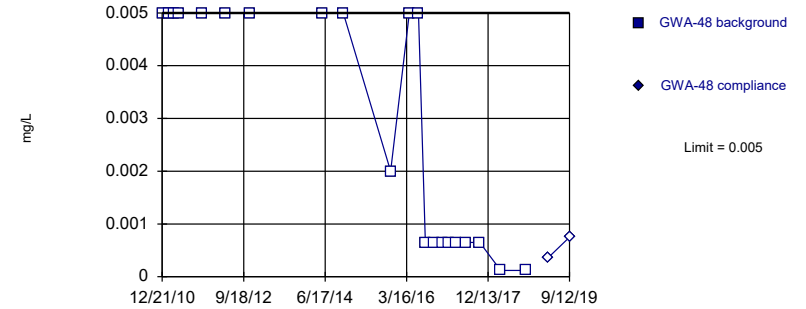


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

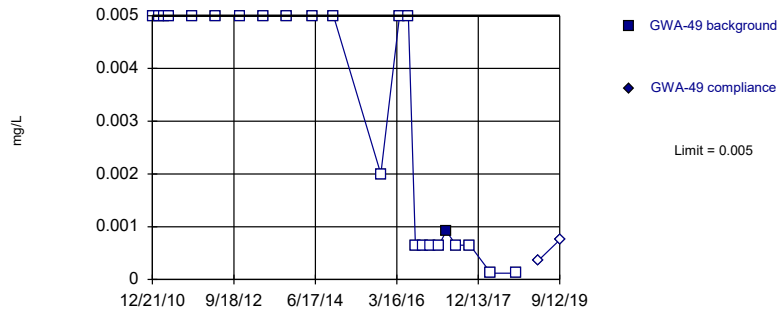


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 100% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

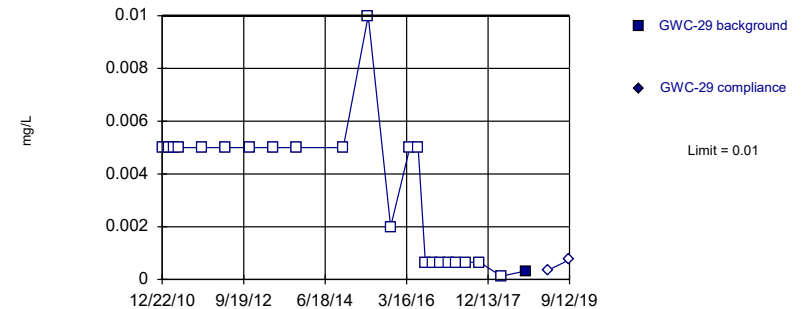


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

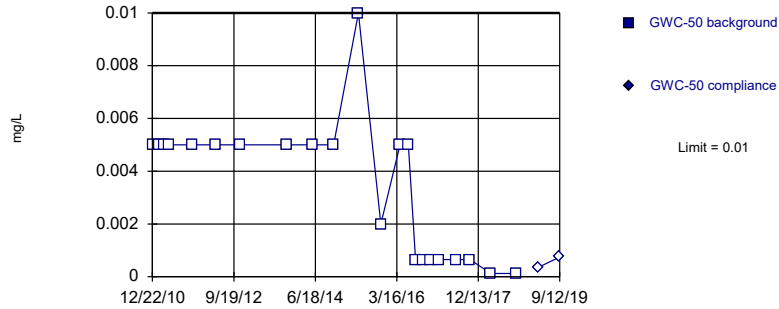


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

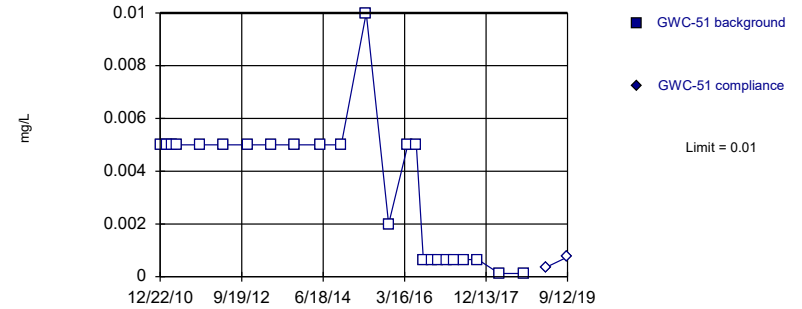


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 100% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

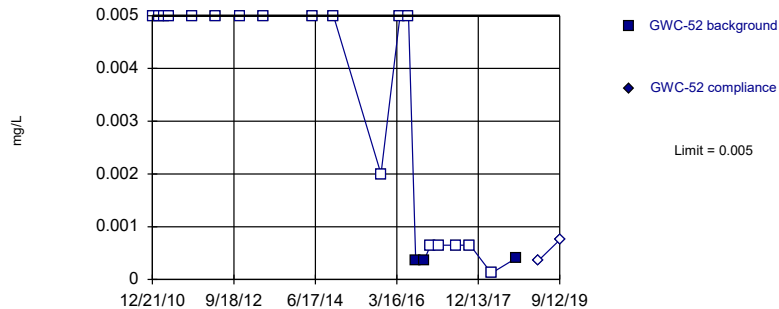


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

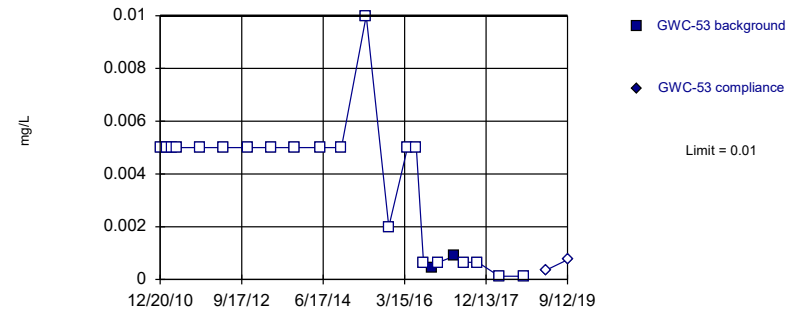


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
 Intrawell Non-parametric

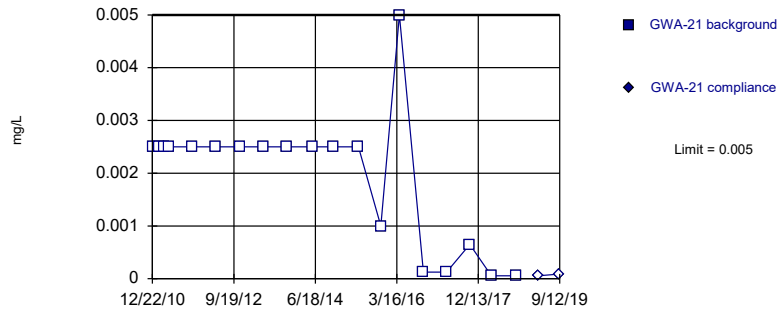


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
 Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

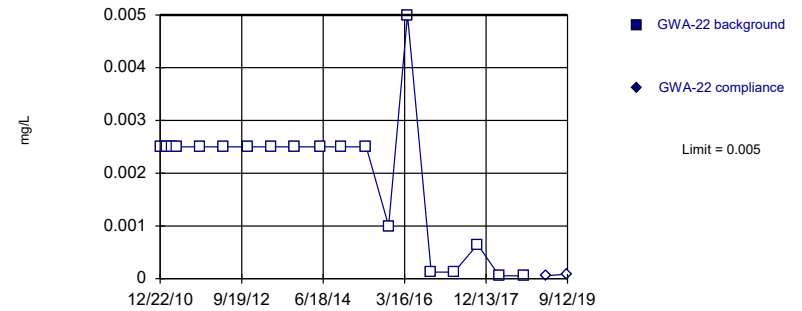


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

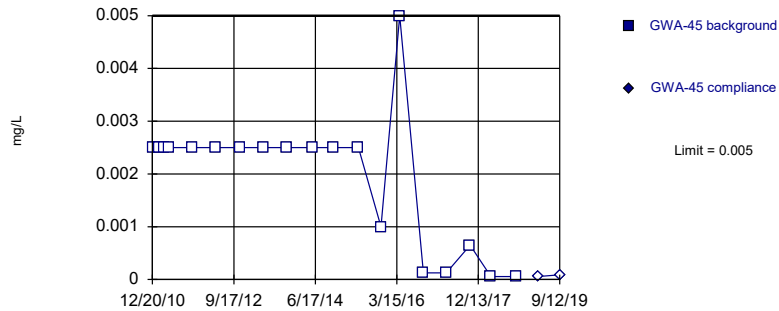


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

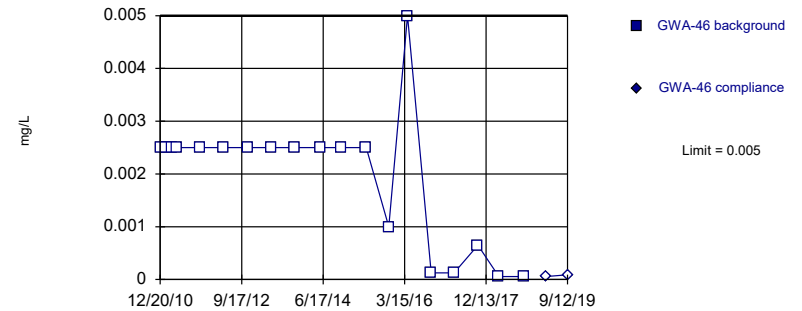


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

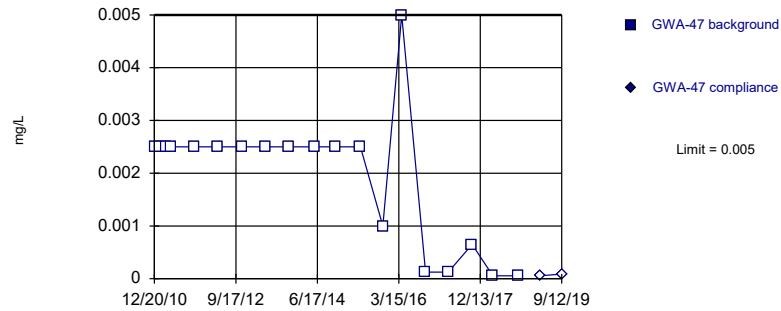


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

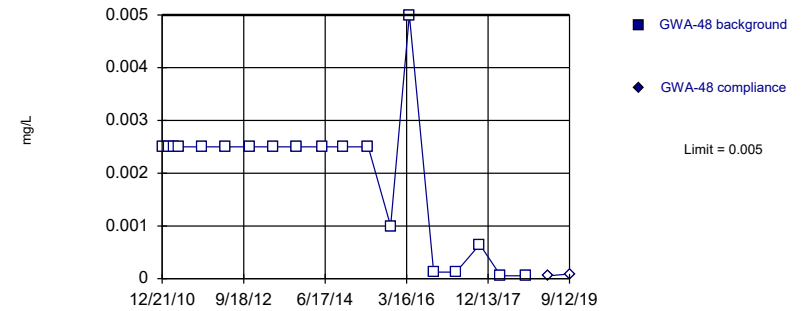


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

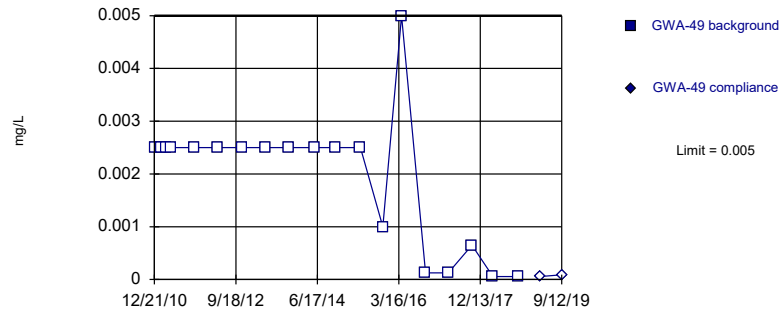


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

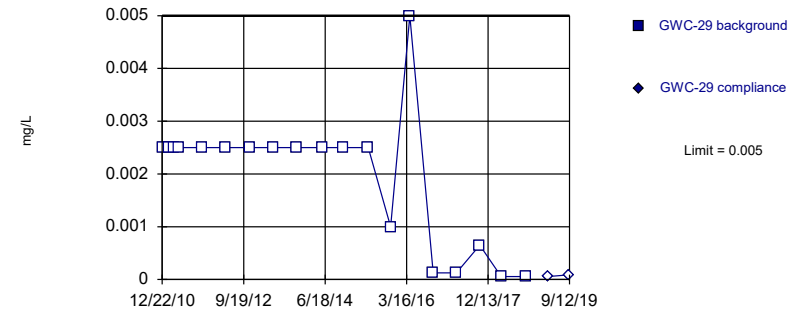


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

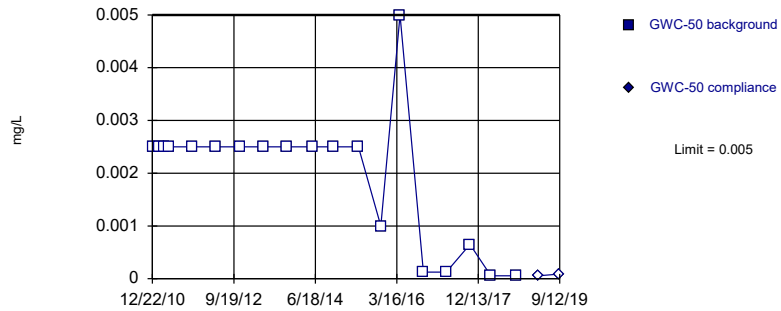


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

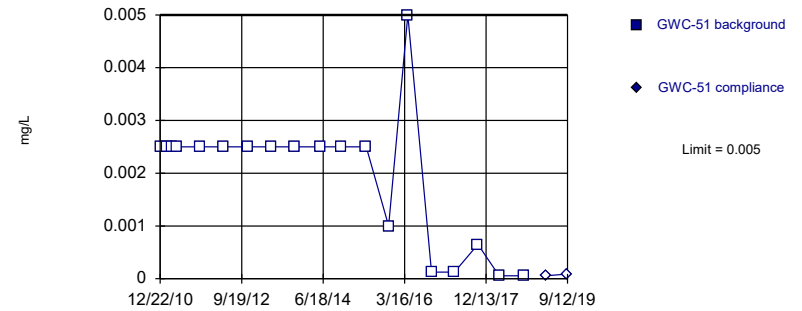


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

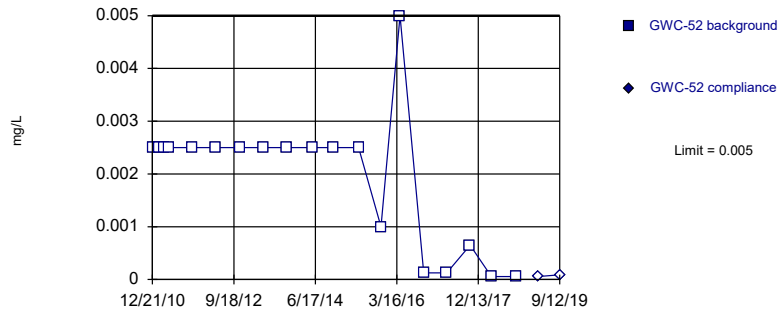


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

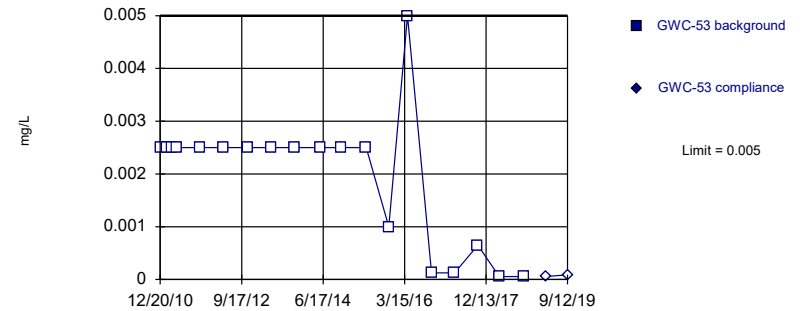


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

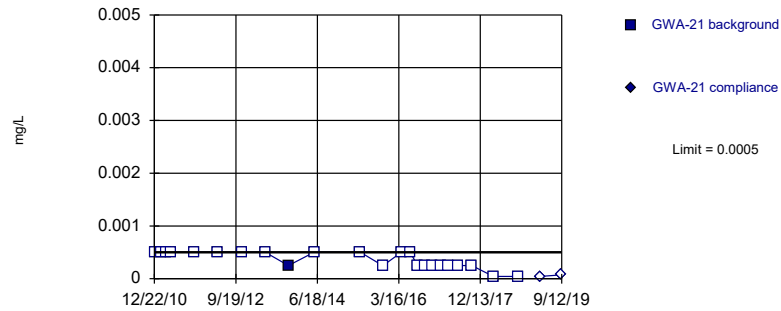


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Silver, Total Analysis Run 1/27/2020 10:50 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

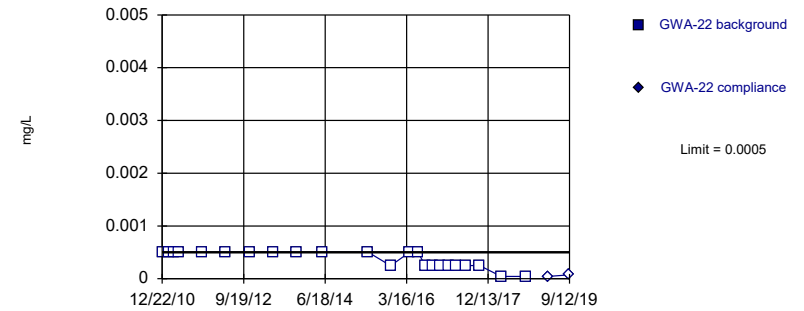


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

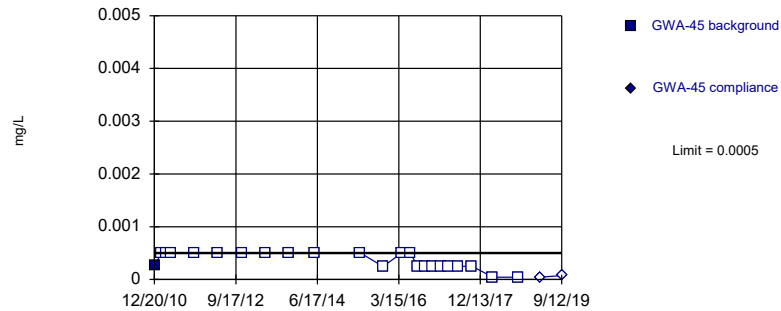


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

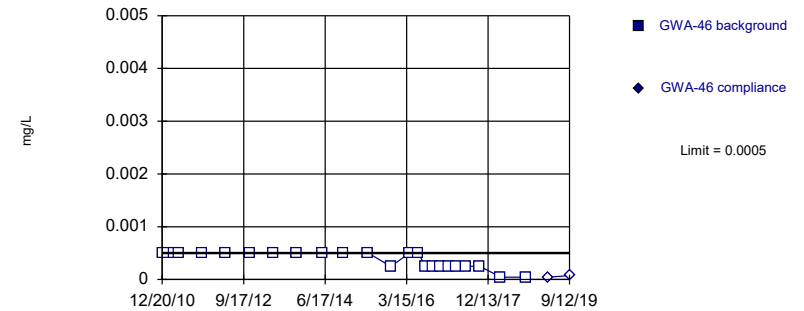


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric



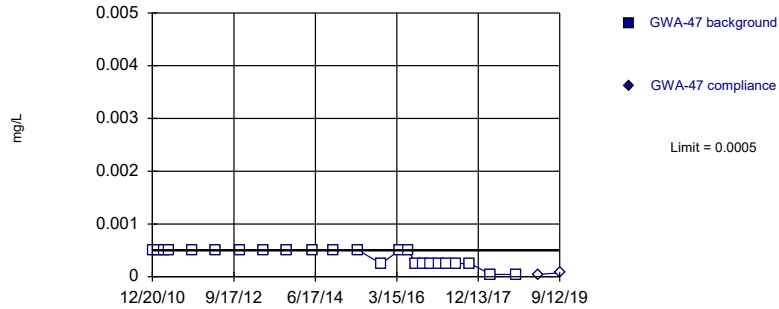
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



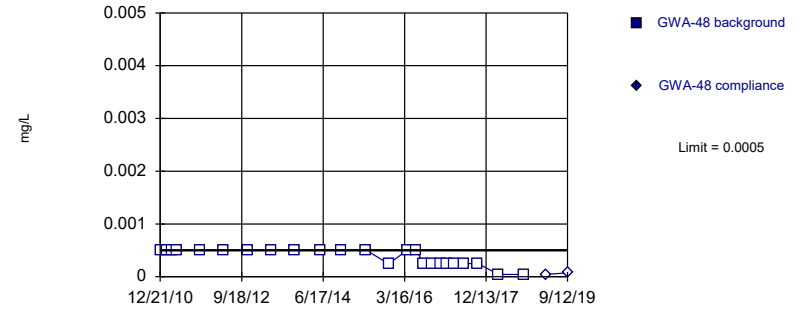
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



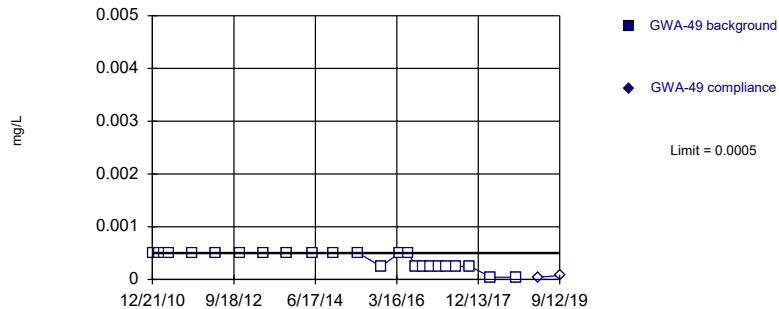
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



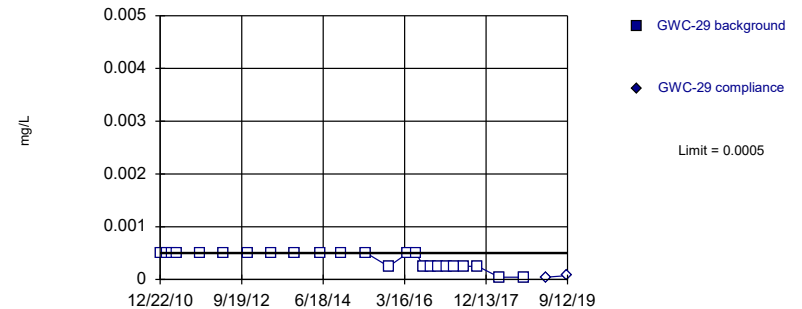
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. 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. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

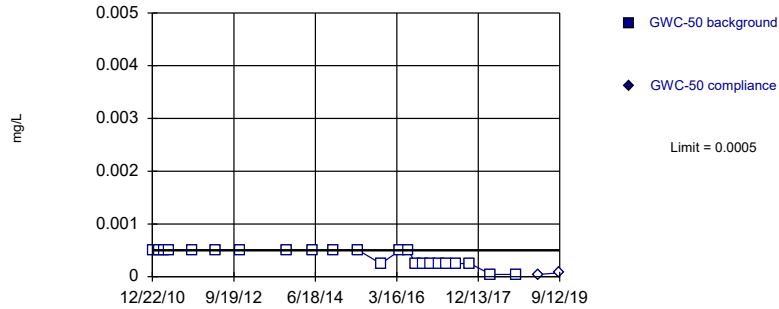
Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



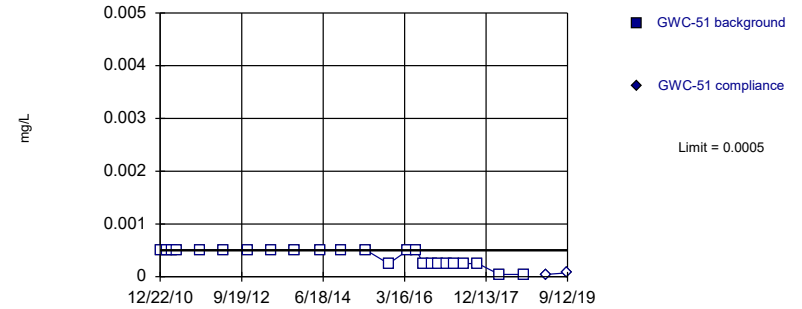
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 100% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



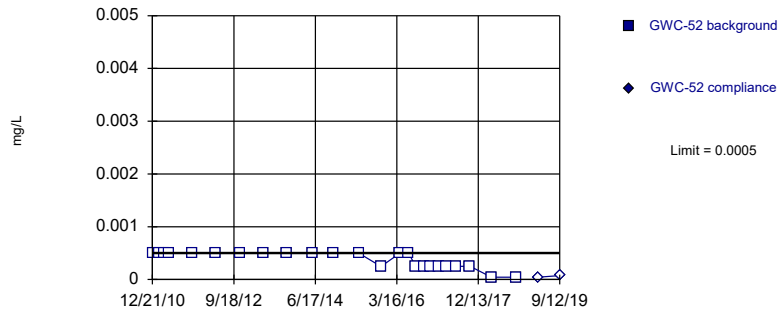
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



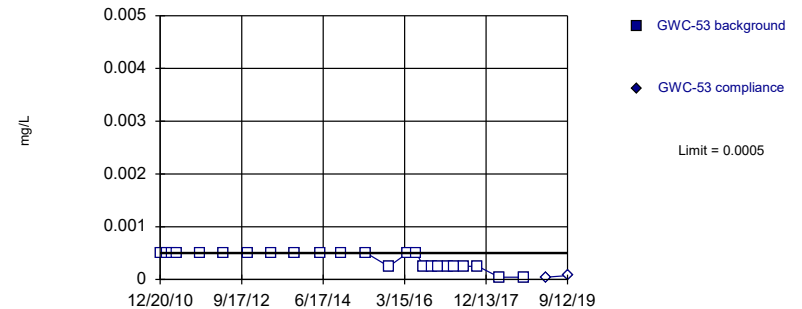
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

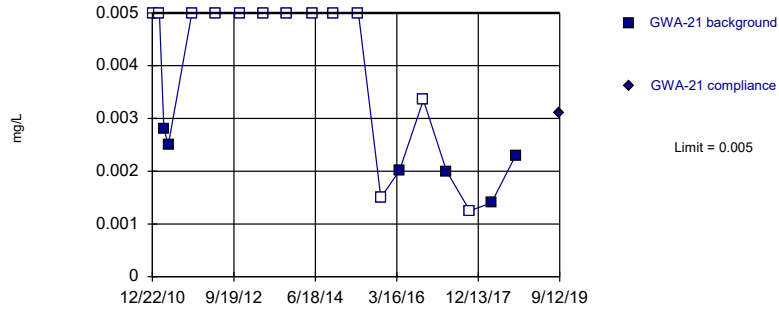


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Thallium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

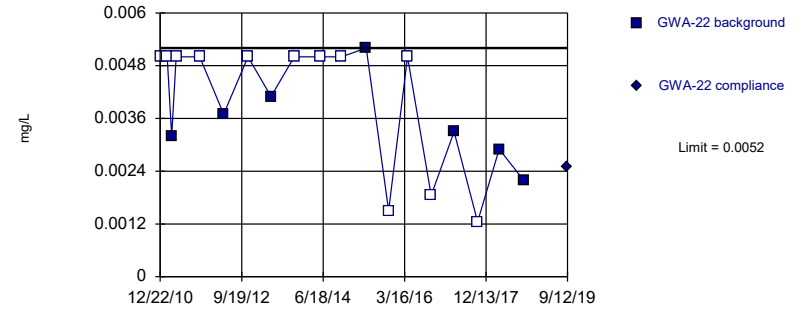


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

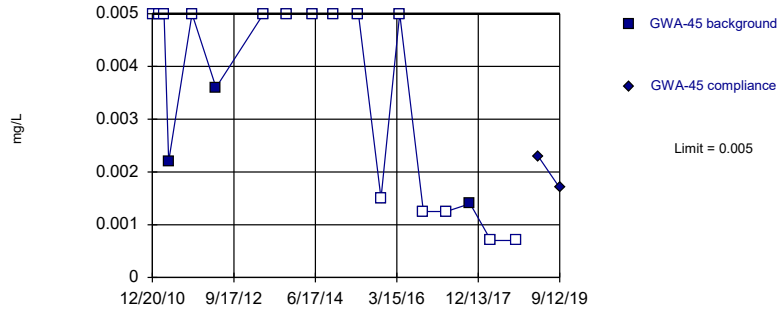


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

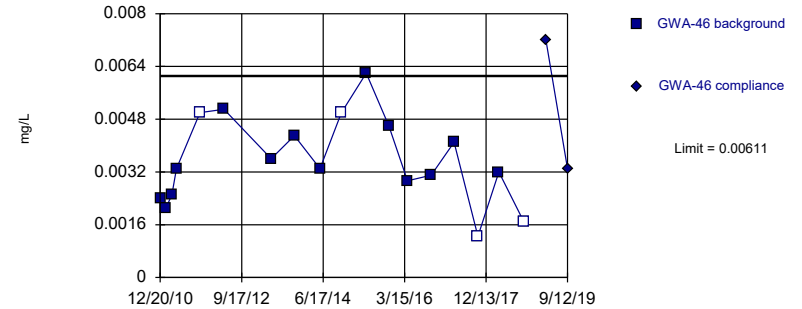


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

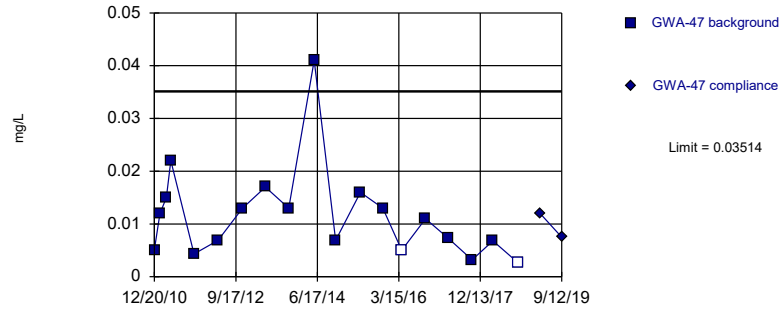


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00344, Std. Dev.=0.001121, n=18, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.858. Kappa = 2.383 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

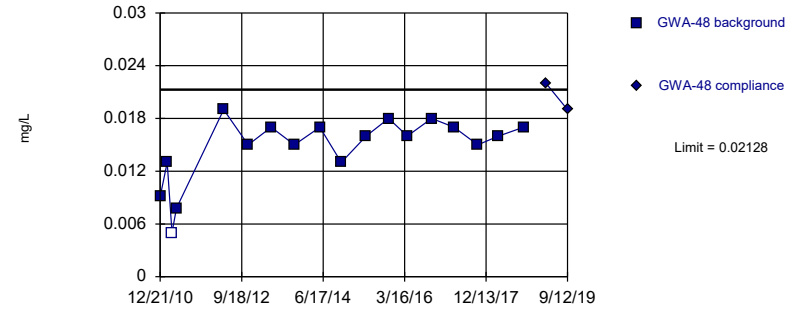


Background Data Summary (based on square root transformation): Mean=0.01019, Std. Dev.=0.03636, n=19, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9235, critical = 0.863. Kappa = 2.353 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

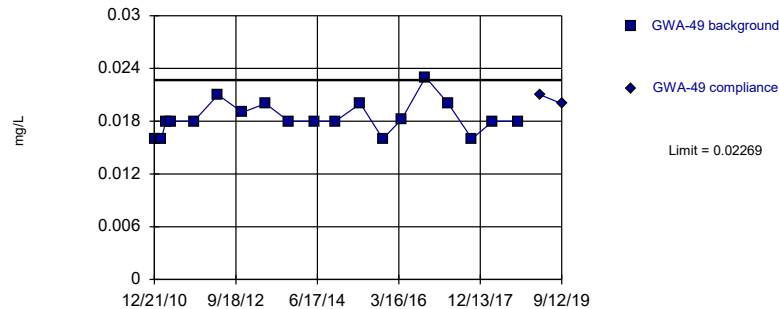


Background Data Summary (based on square transformation): Mean=0.0002286, Std. Dev.=0.00009411, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9056, critical = 0.858. Kappa = 2.383 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

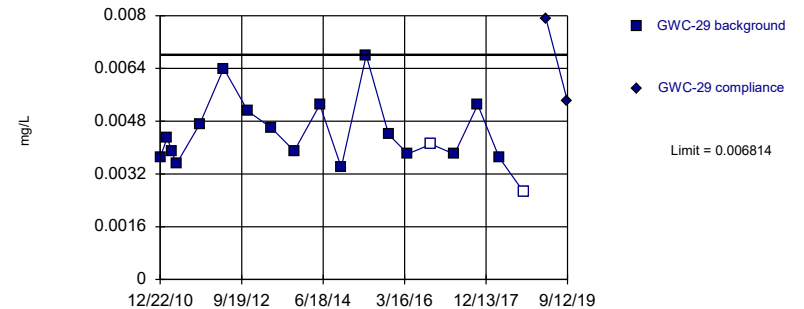


Background Data Summary: Mean=0.01838, Std. Dev.=0.00183, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8844, critical = 0.863. Kappa = 2.353 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Parametric

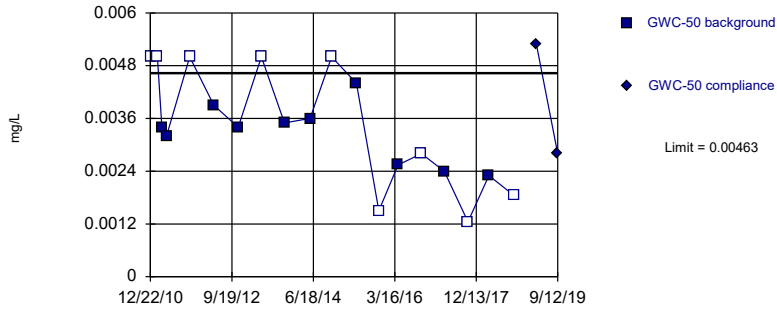


Background Data Summary: Mean=0.004387, Std. Dev.=0.001032, n=19, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9277, critical = 0.863. Kappa = 2.353 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Parametric

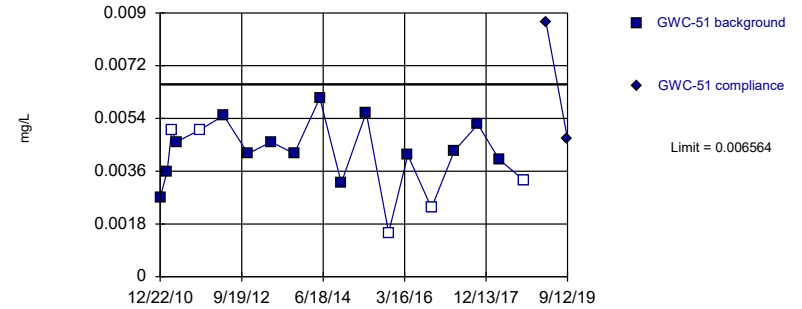


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003026, Std. Dev.=0.0006819, n=19, 47.37% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9228, critical = 0.863. Kappa = 2.353 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Parametric

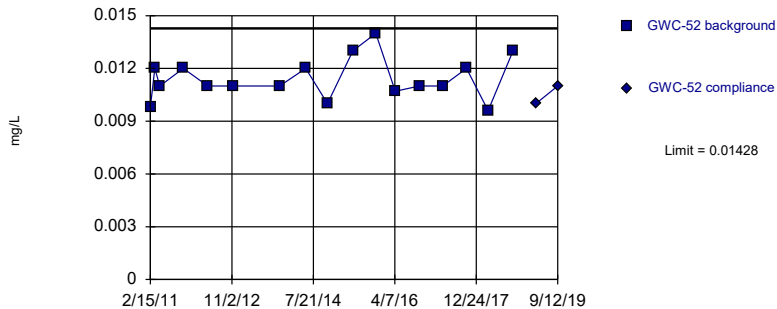


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.004156, Std. Dev.=0.001024, n=19, 26.32% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9732, critical = 0.863. Kappa = 2.353 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG

Within Limit Prediction Limit  
Intrawell Parametric

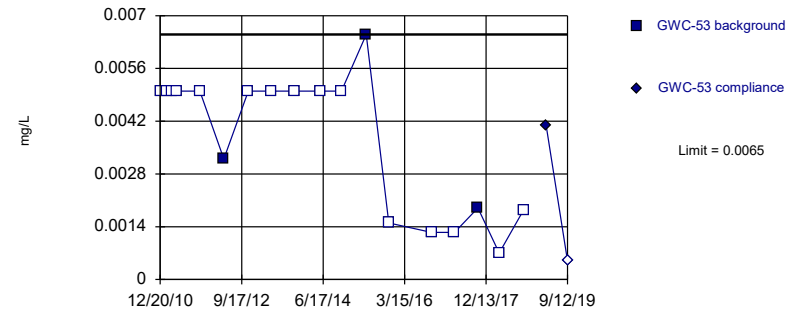


Background Data Summary: Mean=0.01142, Std. Dev.=0.001187, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9351, critical = 0.851. Kappa = 2.414 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit Prediction Limit  
Intrawell Non-parametric



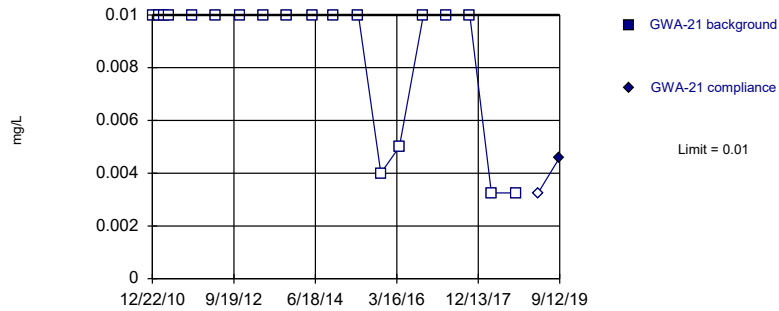
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



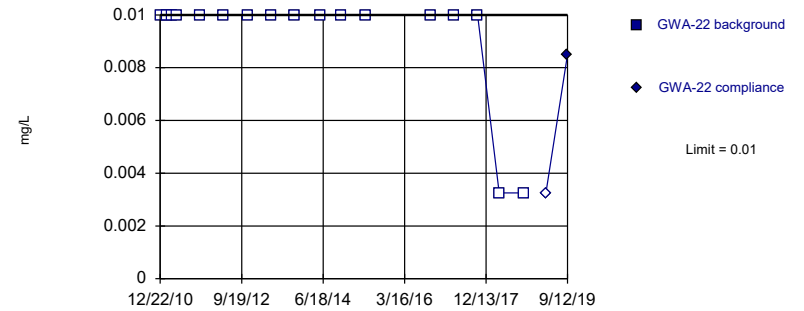
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



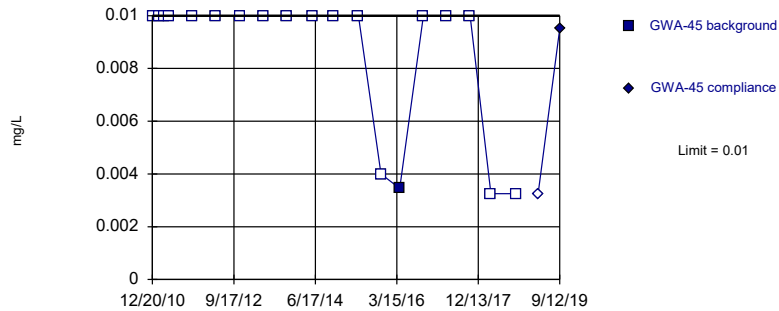
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 100% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



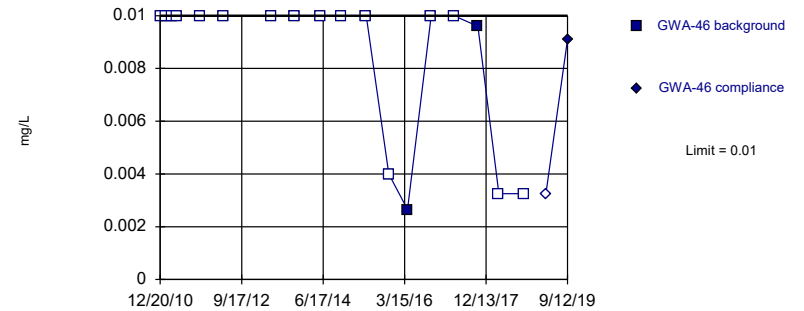
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Intrawell Non-parametric



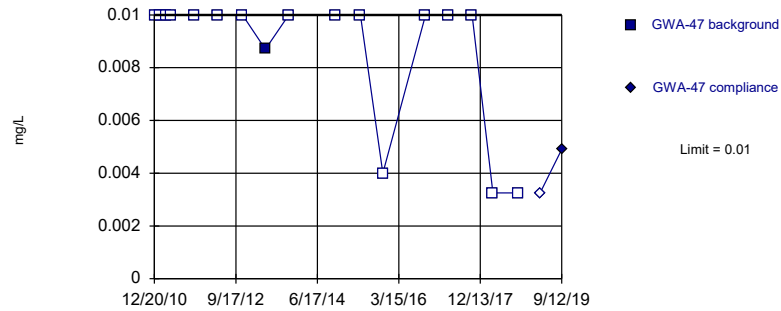
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



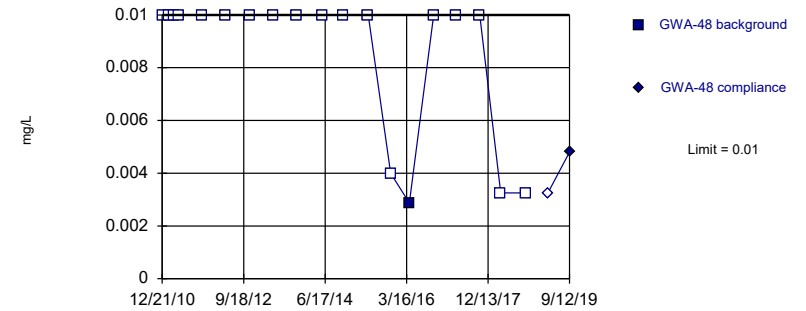
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



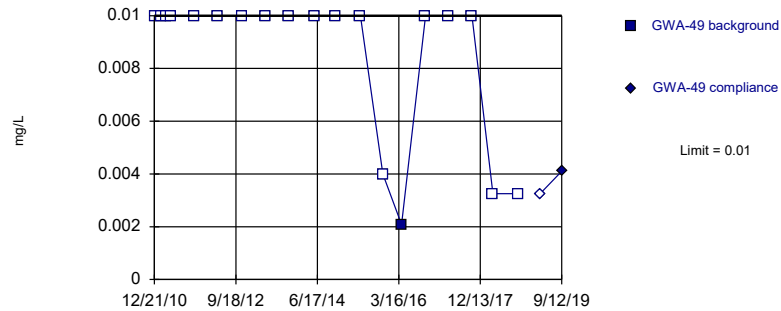
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric



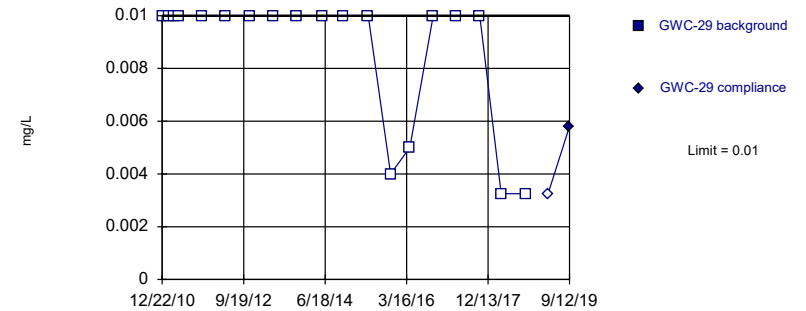
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.25 For the statistical analyses of ground water by Golder Associates only. UG  
Hollow symbols indicate censored values.

Within Limit

Prediction Limit  
Intrawell Non-parametric

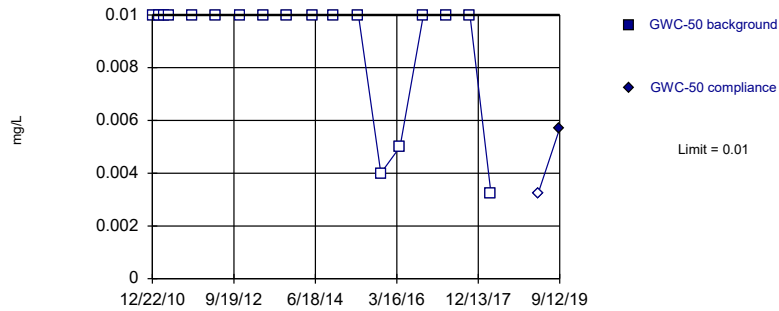


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

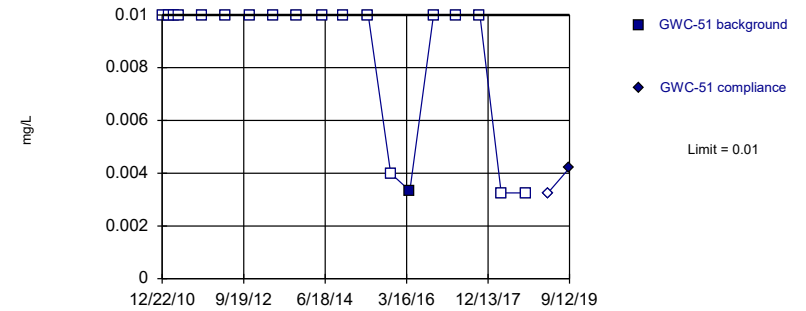


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 100% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

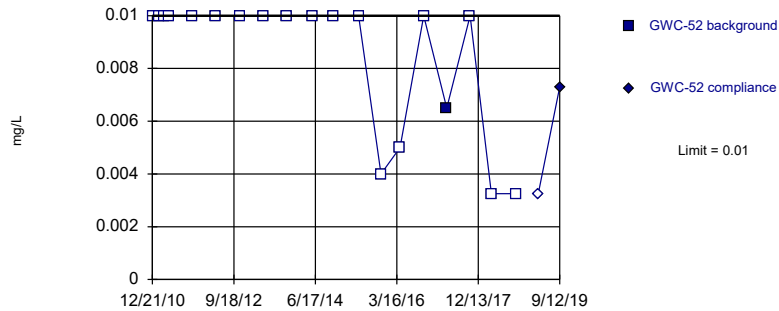


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit  
Intrawell Non-parametric

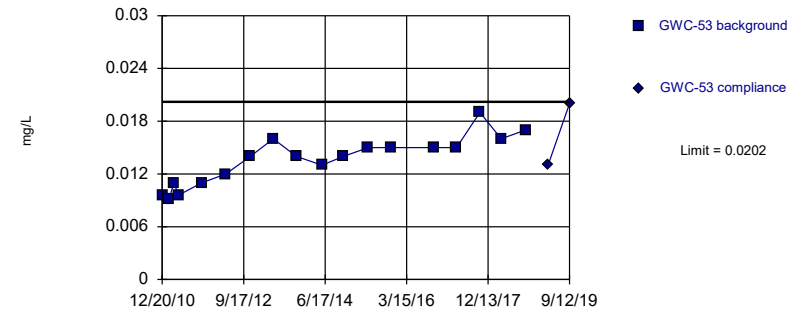


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

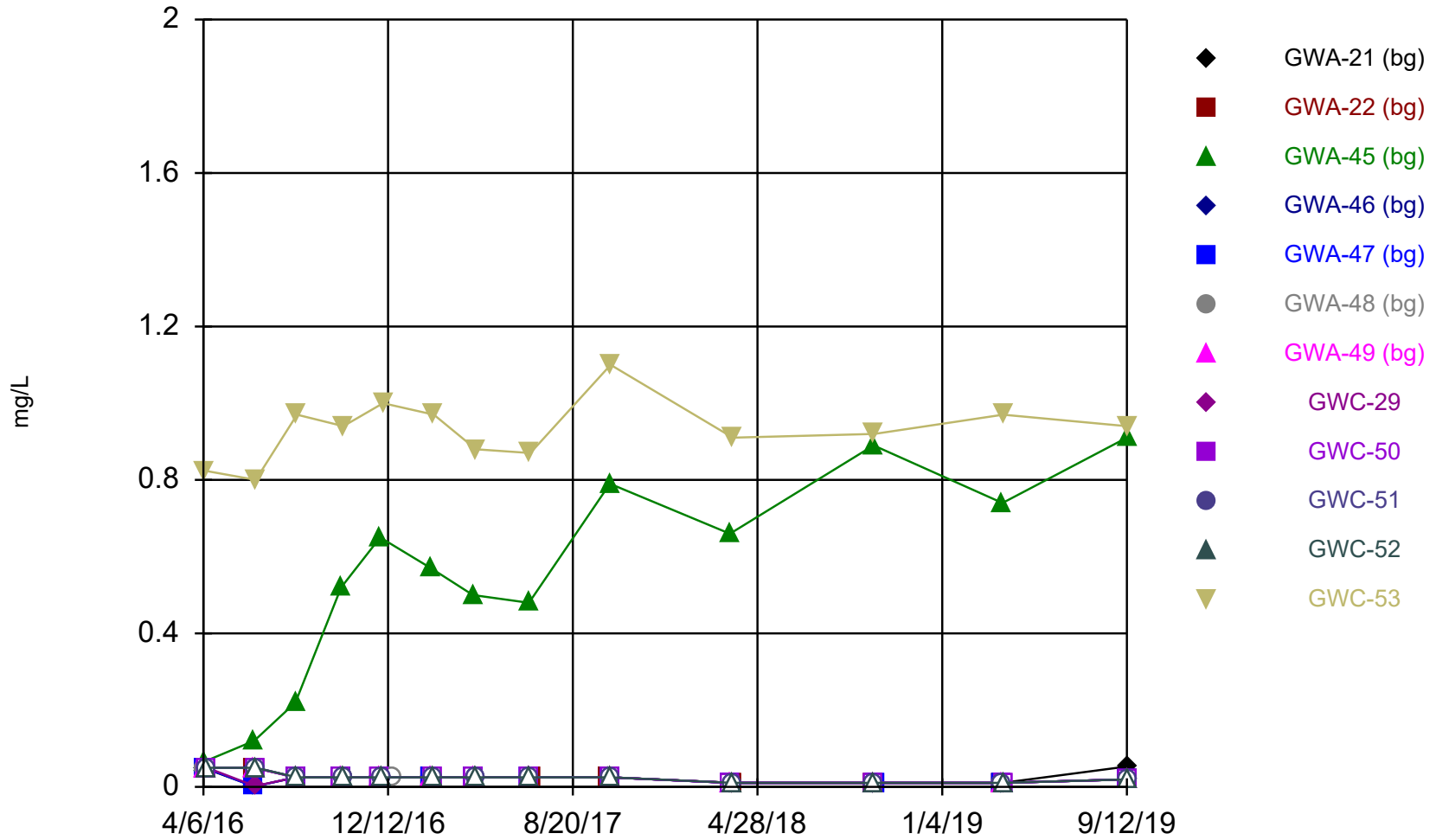
Prediction Limit  
Intrawell Parametric



Background Data Summary: Mean=0.01363, Std. Dev.=0.002756, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.858. Kappa = 2.383 (c=16, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0006583.

Constituent: Zinc, Total Analysis Run 1/27/2020 10:51 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series

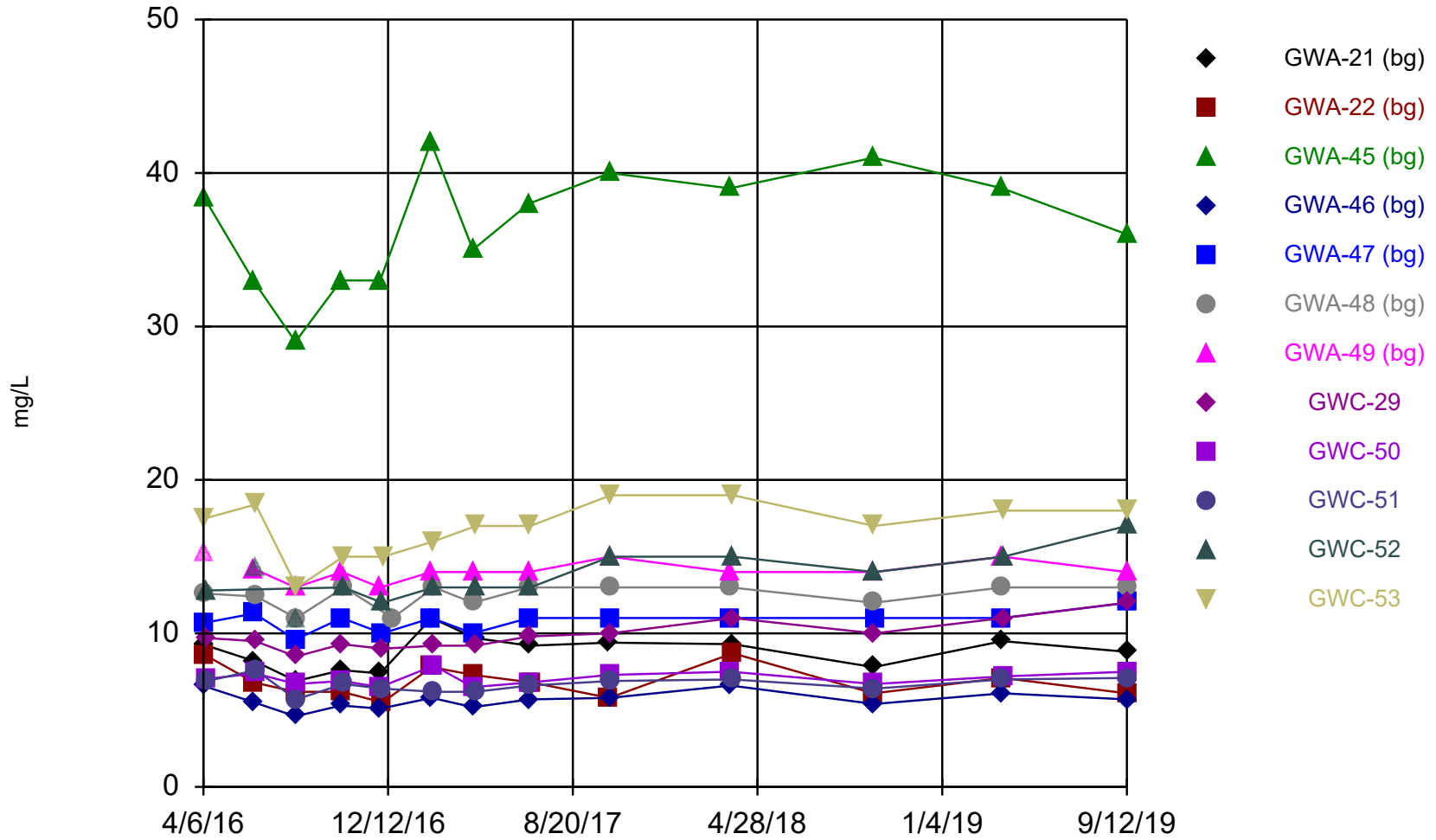


Constituent: Boron Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR



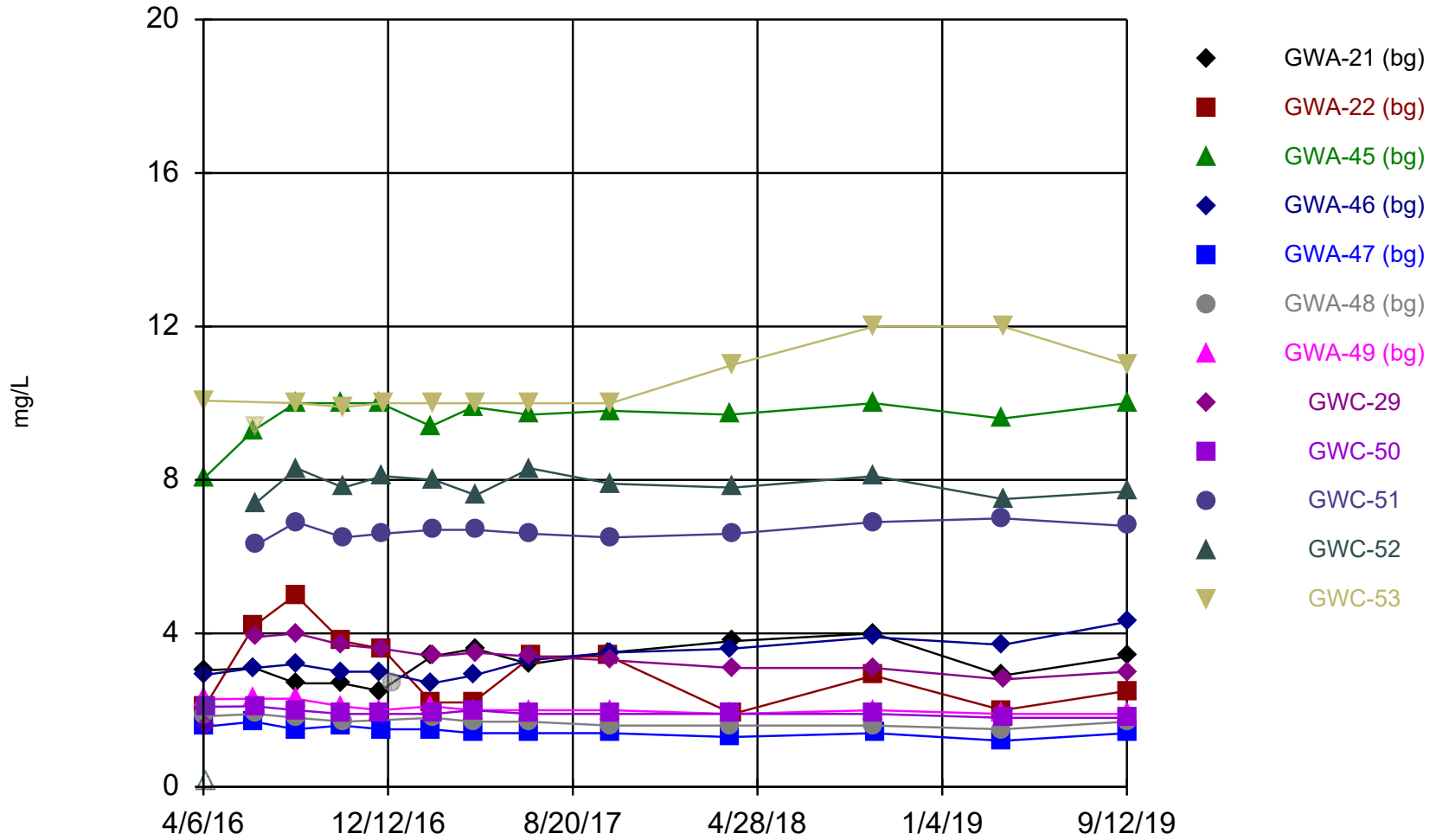
### Time Series



Constituent: Calcium Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

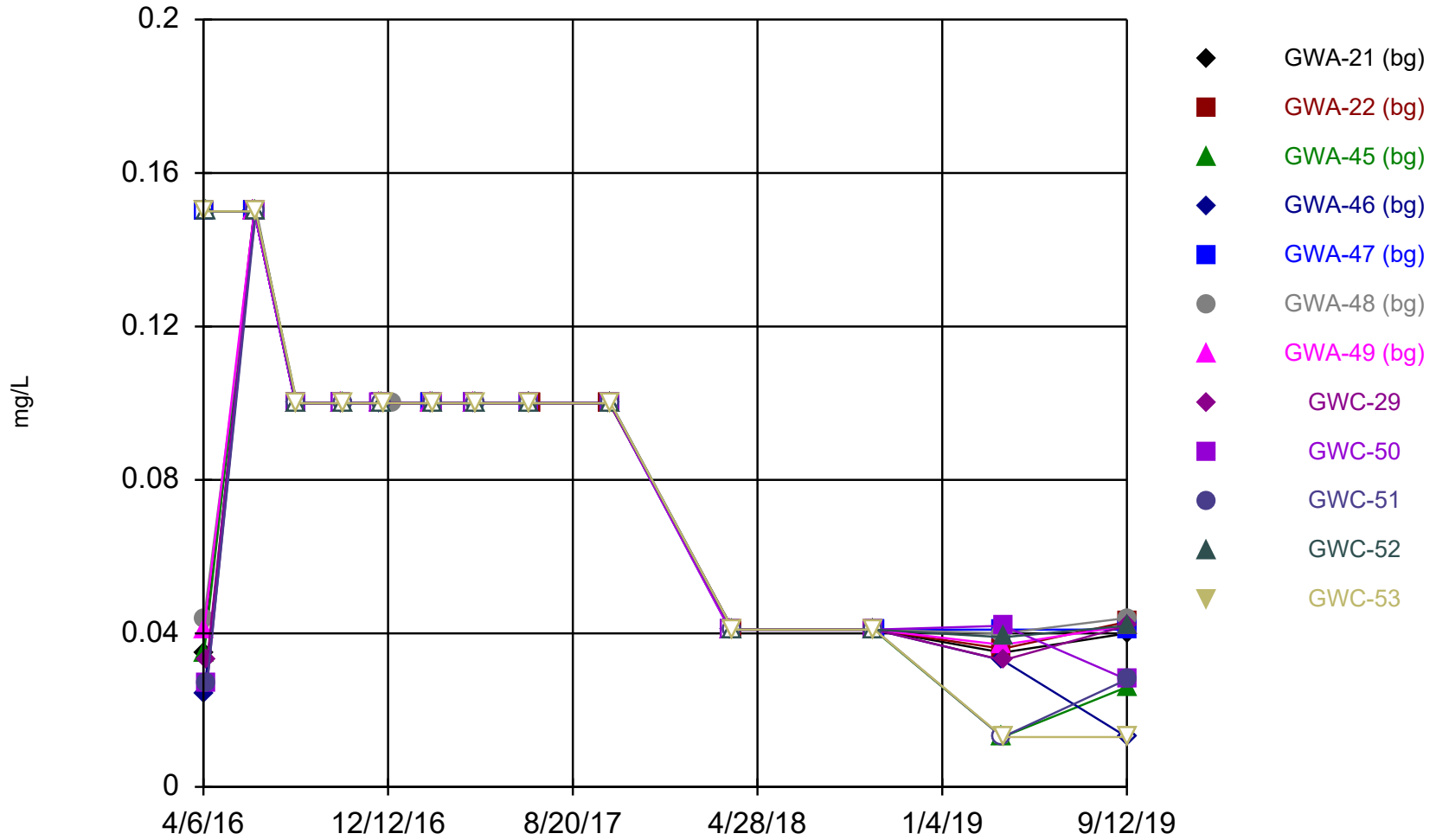
### Time Series



Constituent: Chloride Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

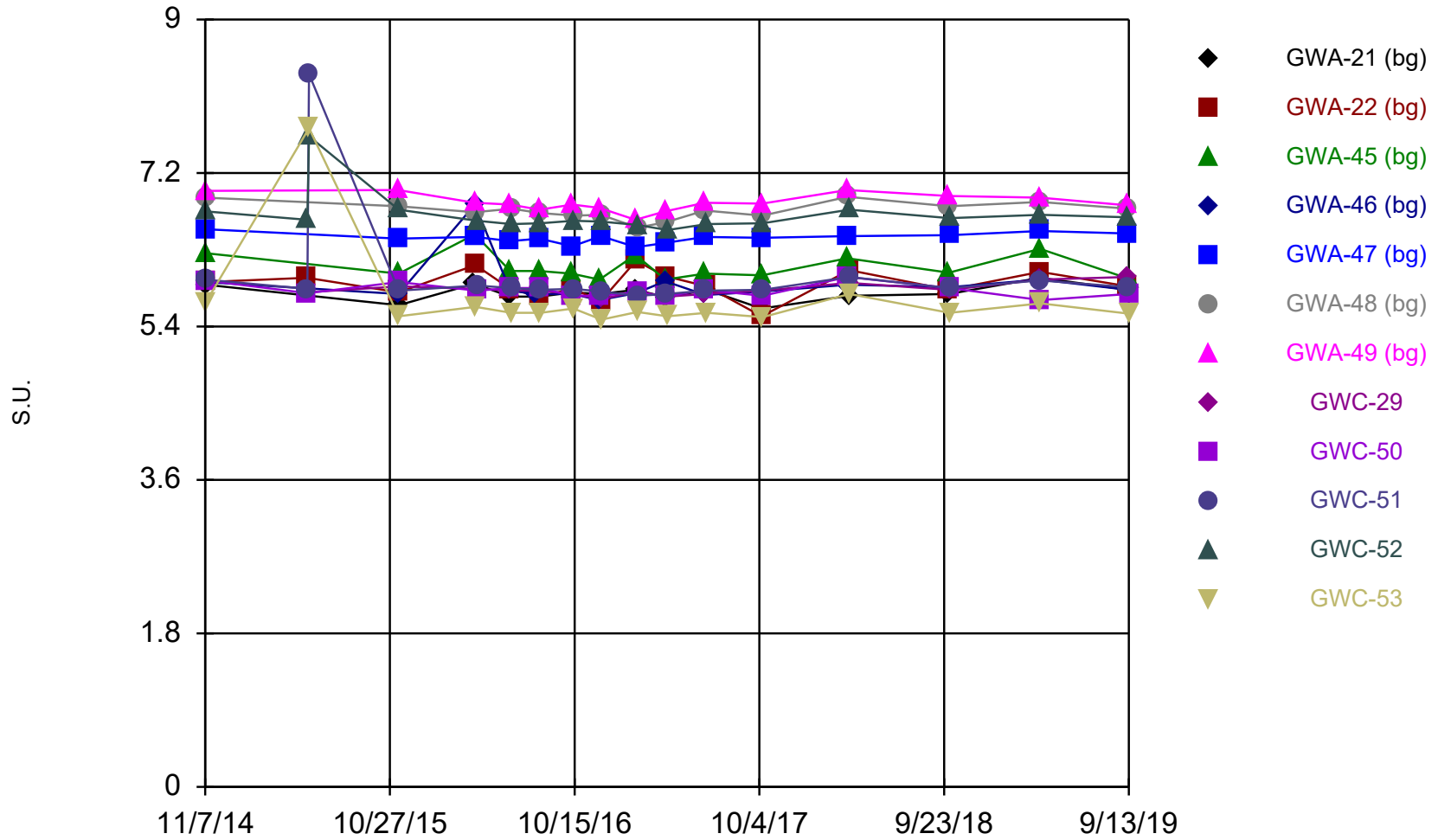
### Time Series



Constituent: Fluoride Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

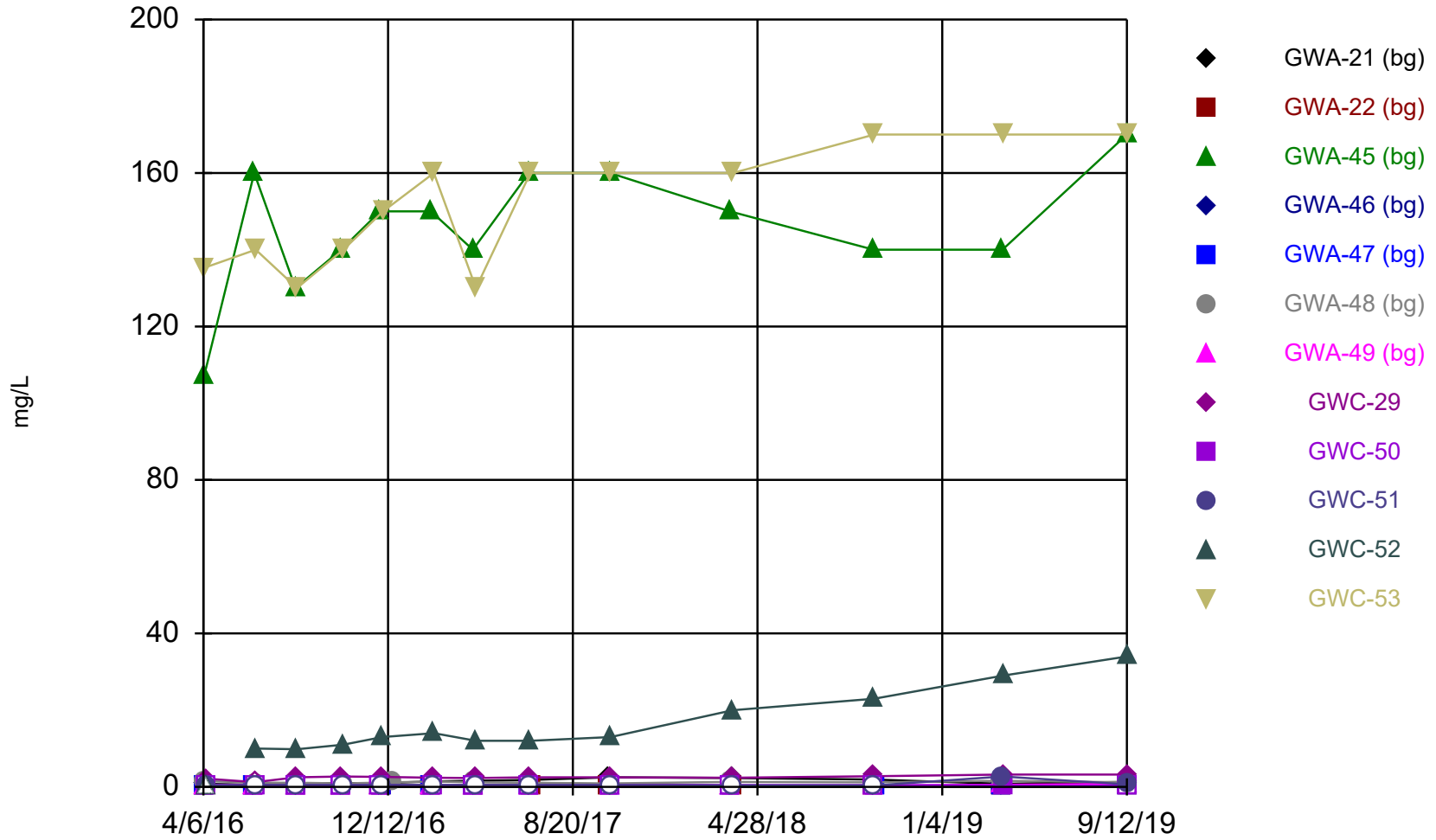
### Time Series



Constituent: pH Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

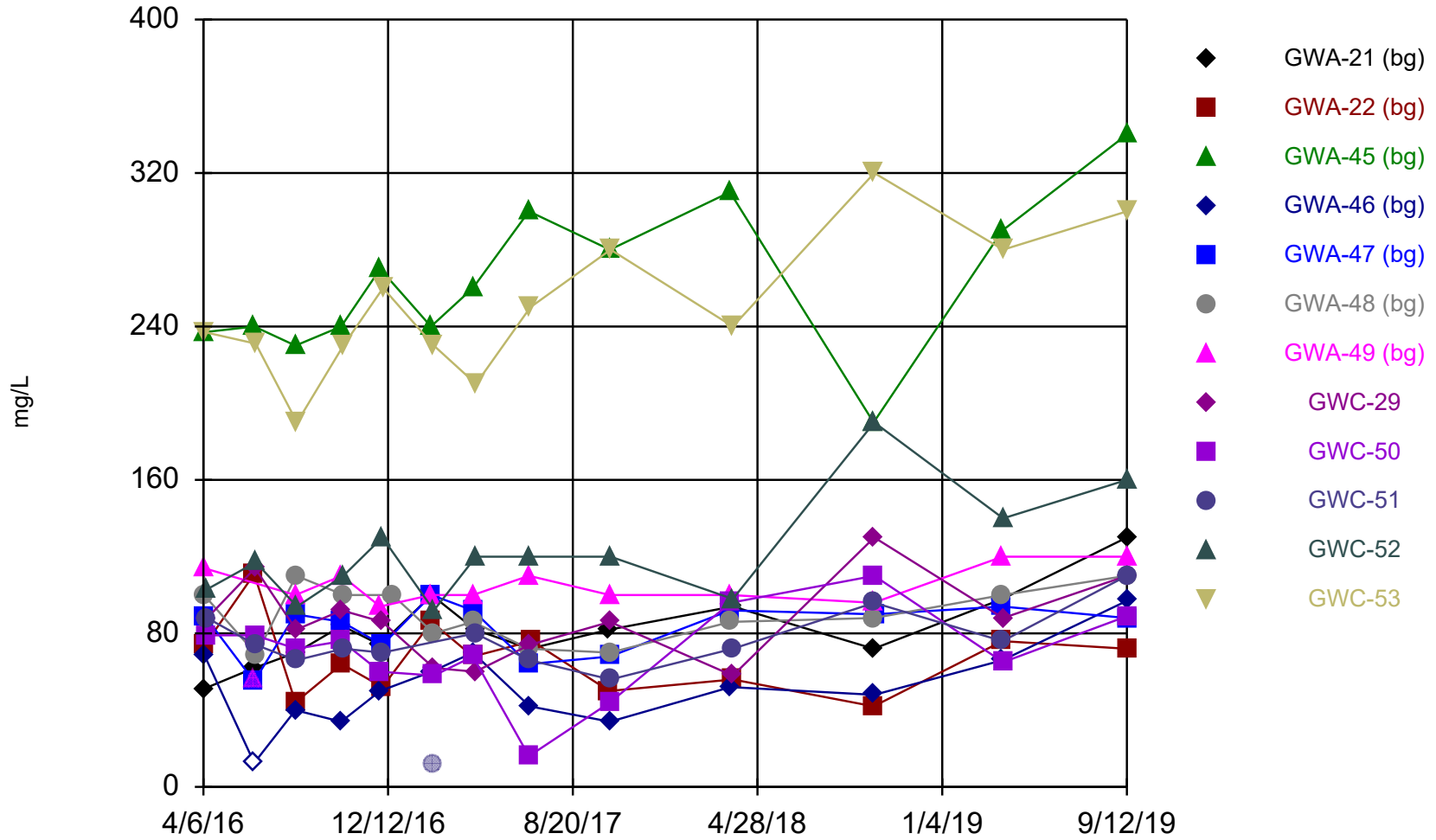
### Time Series



Constituent: Sulfate Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

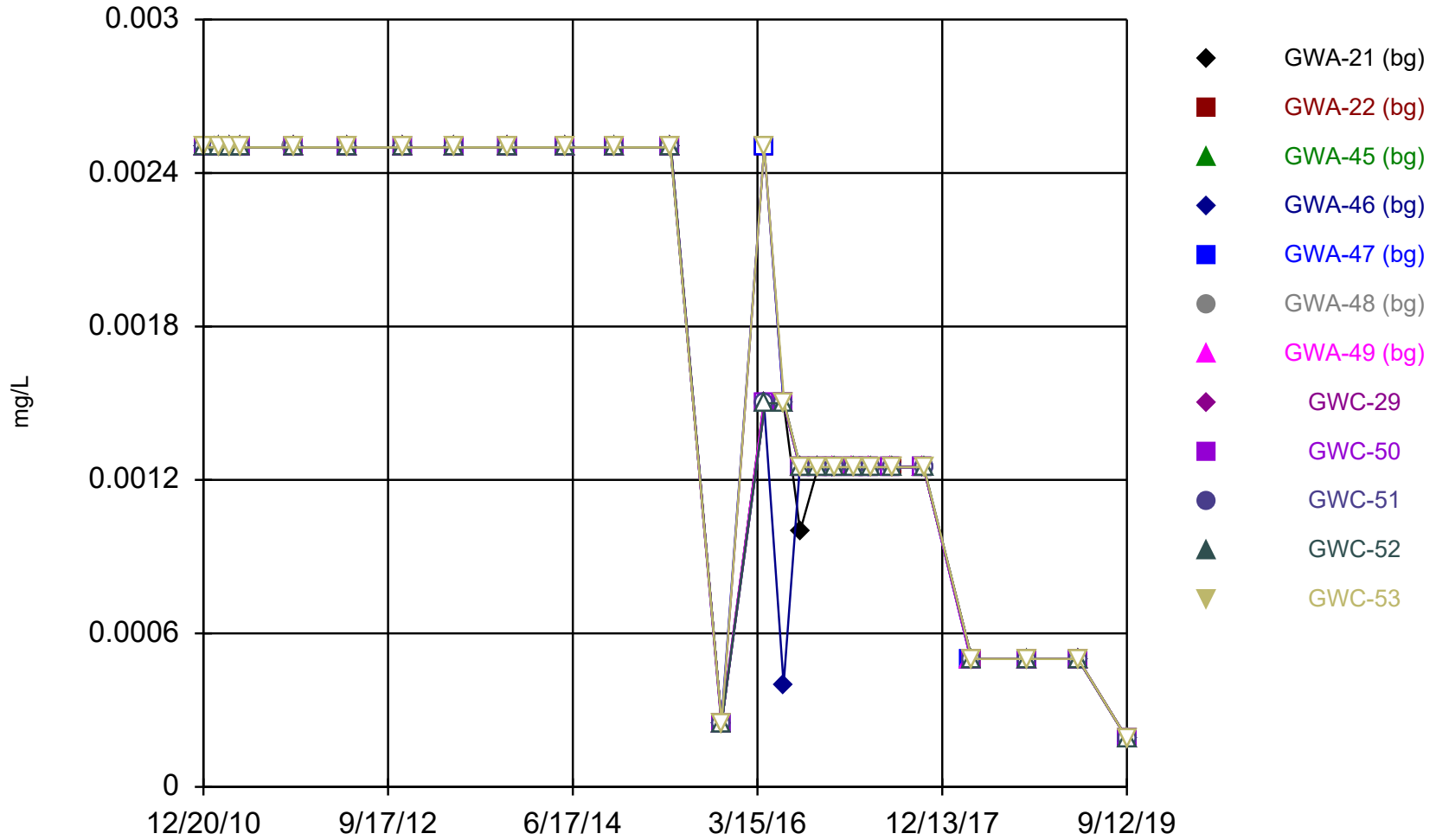
### Time Series



Constituent: Total Dissolved Solids Analysis Run 1/27/2020 10:27 PM View: Appendix III

Scherer Client: Golder Associates Data: Scherer PAC CCR

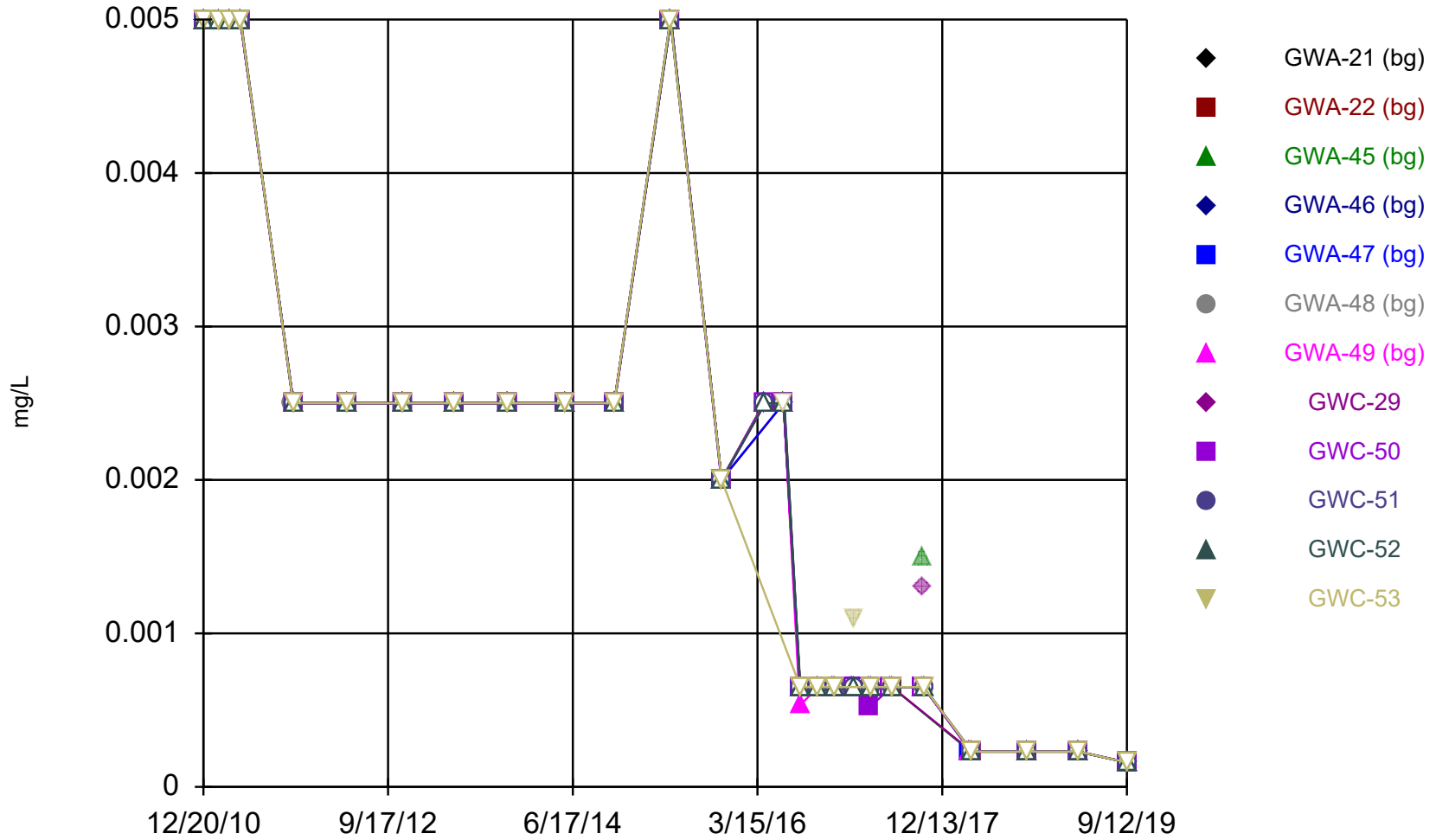
### Time Series



Constituent: Antimony, Total Analysis Run 1/27/2020 10:57 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series

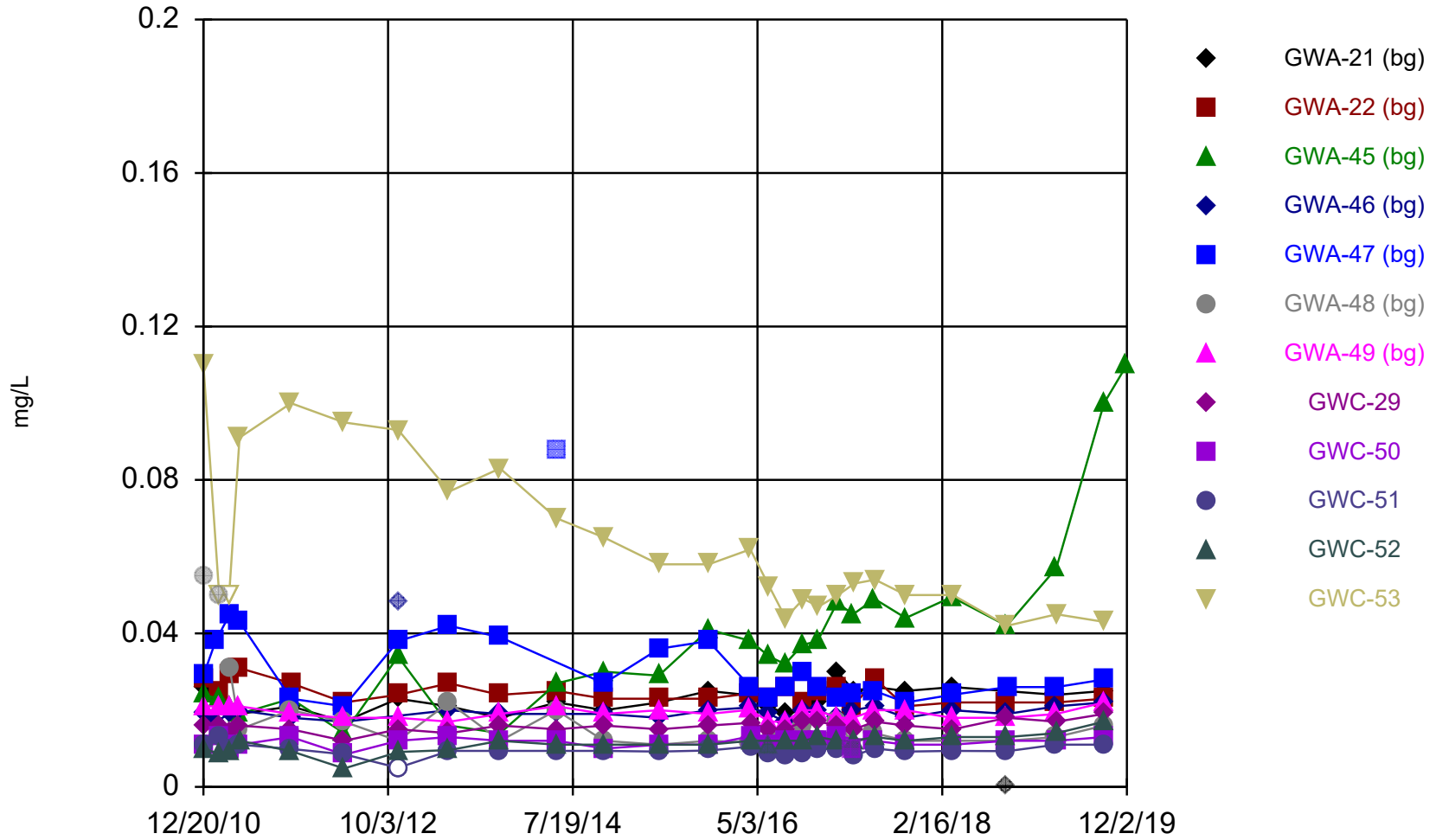


Constituent: Arsenic, Total Analysis Run 1/27/2020 10:57 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR



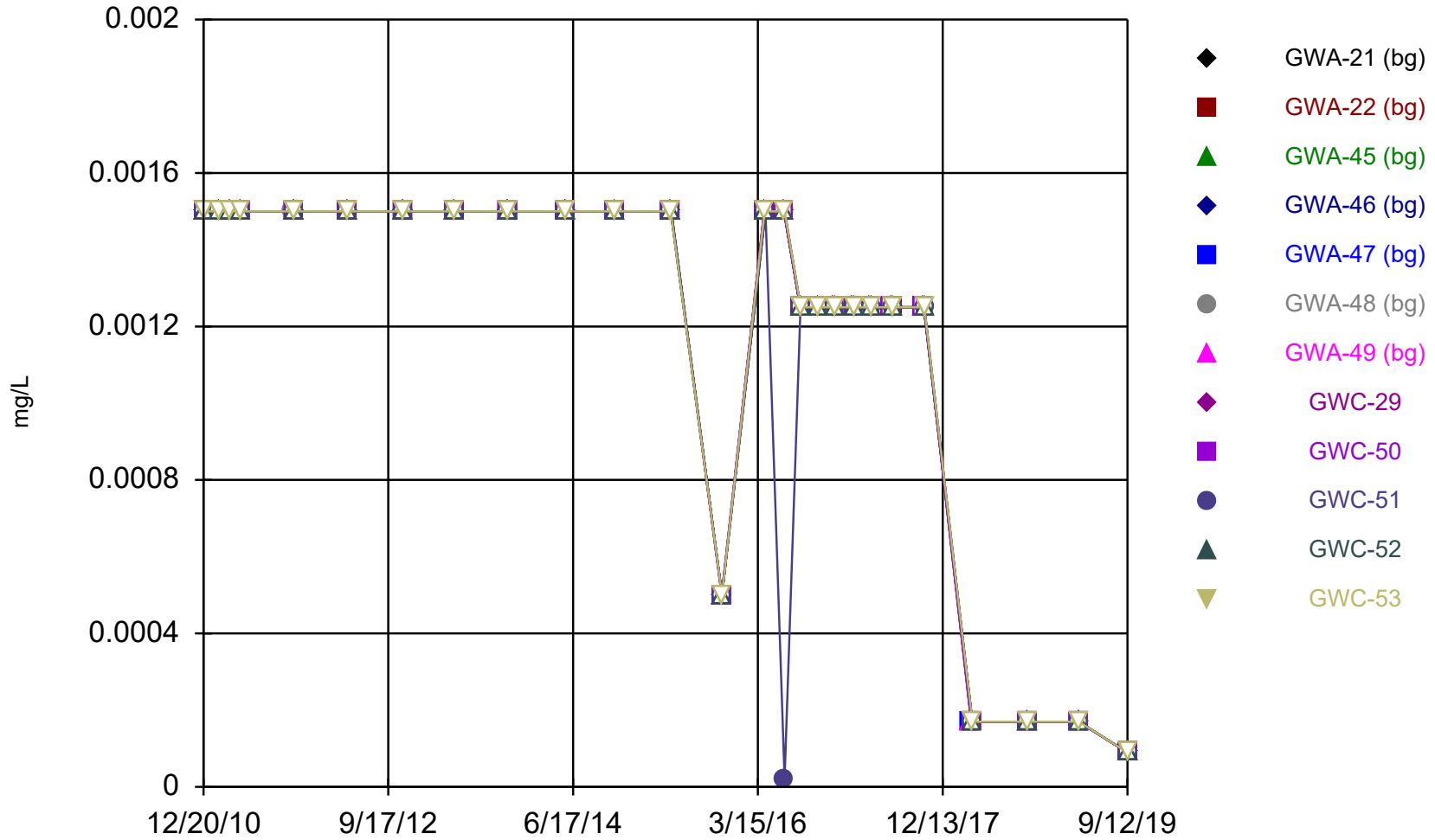
### Time Series



Constituent: Barium, Total Analysis Run 1/27/2020 10:57 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

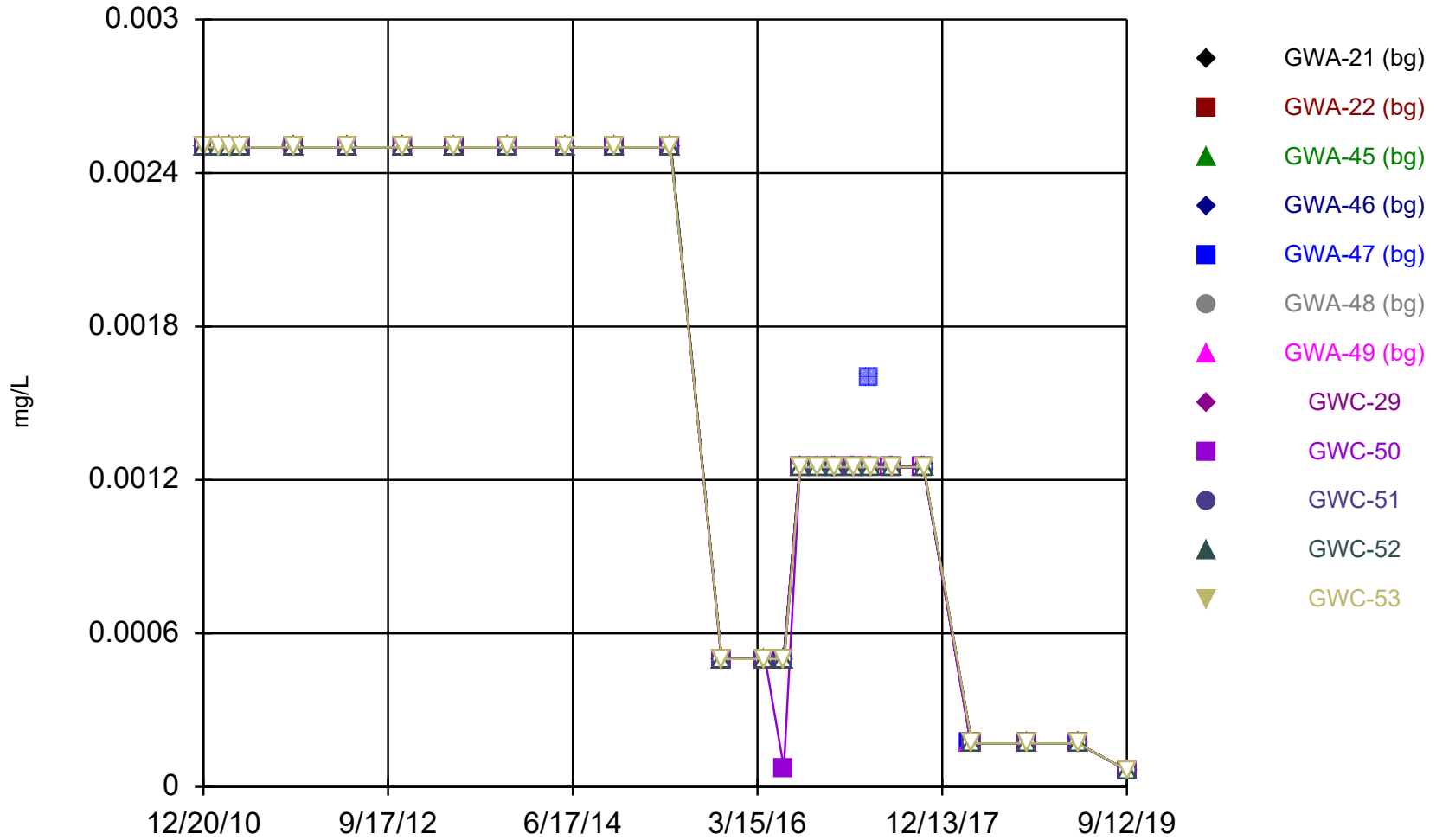
### Time Series



Constituent: Beryllium, Total Analysis Run 1/27/2020 10:57 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

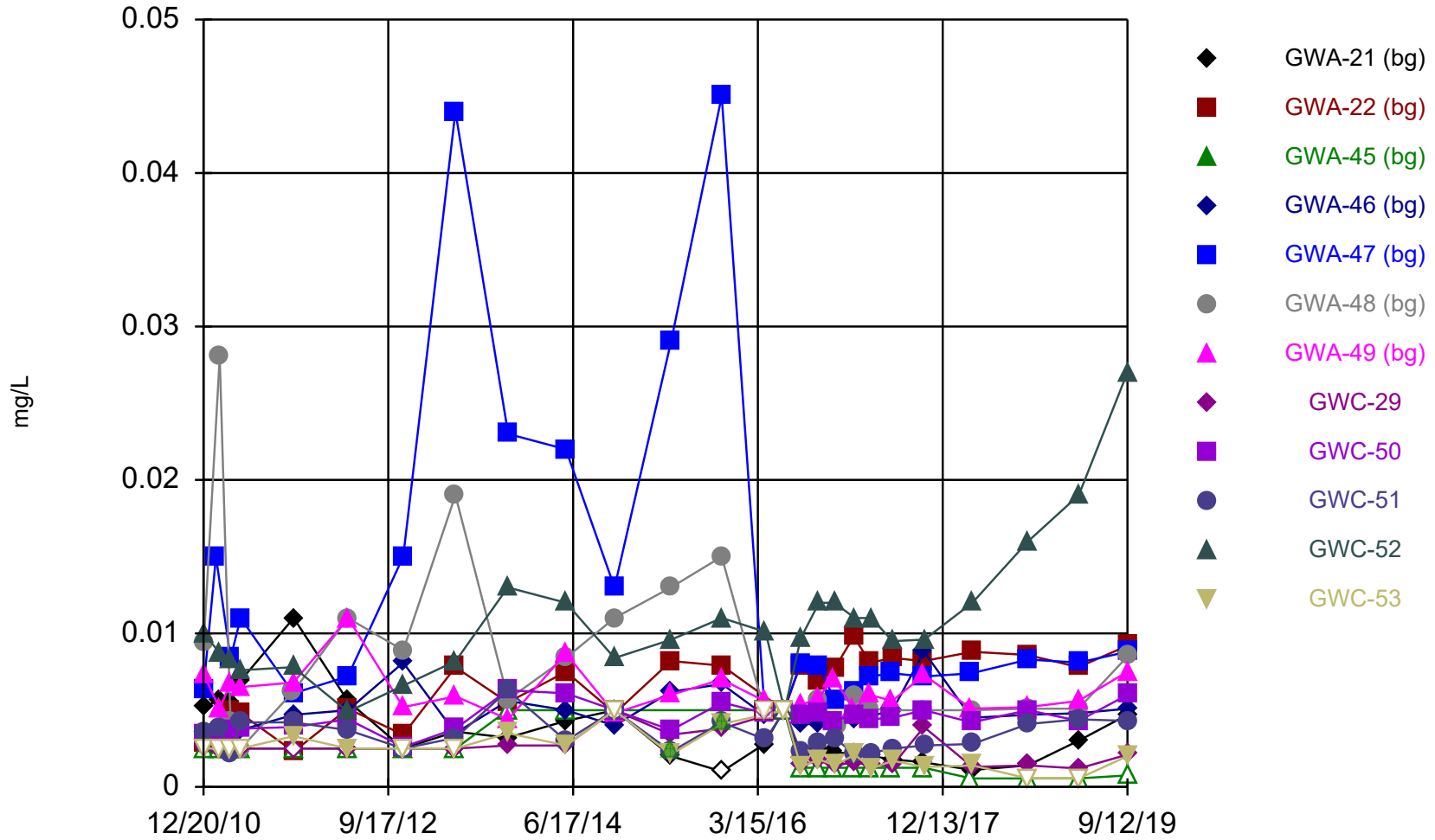
### Time Series



Constituent: Cadmium, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

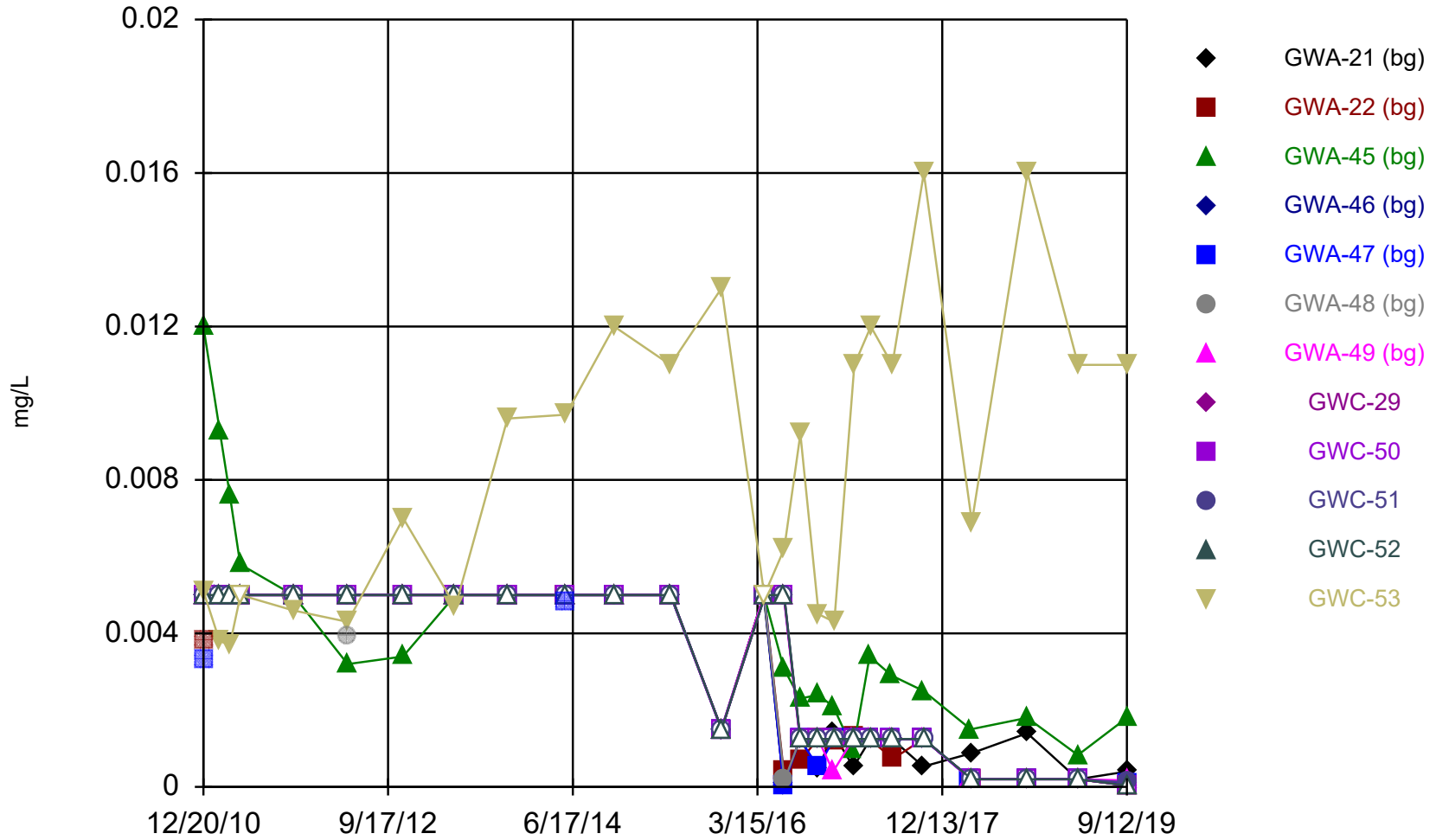
### Time Series



Constituent: Chromium, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

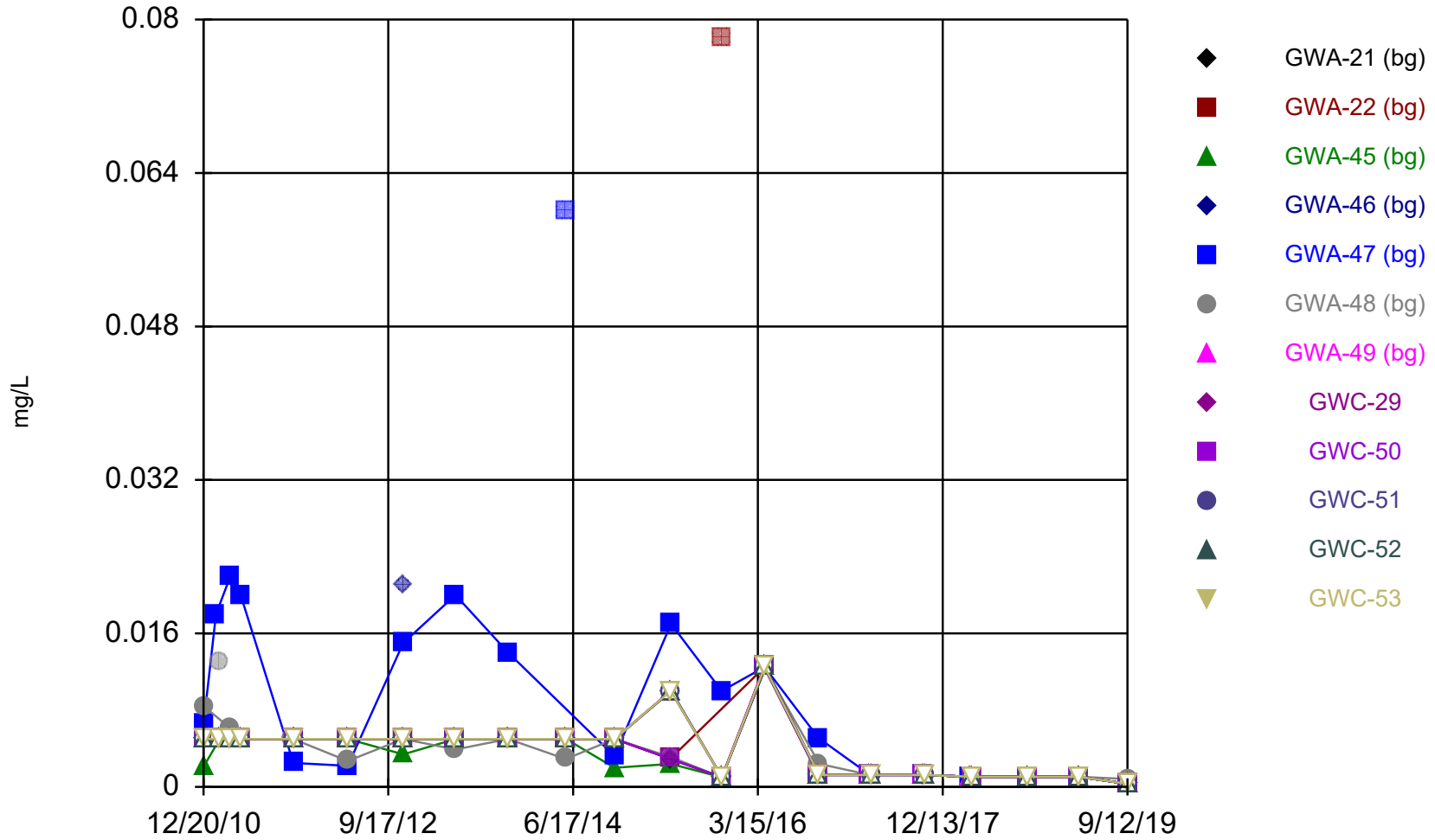
### Time Series



Constituent: Cobalt, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

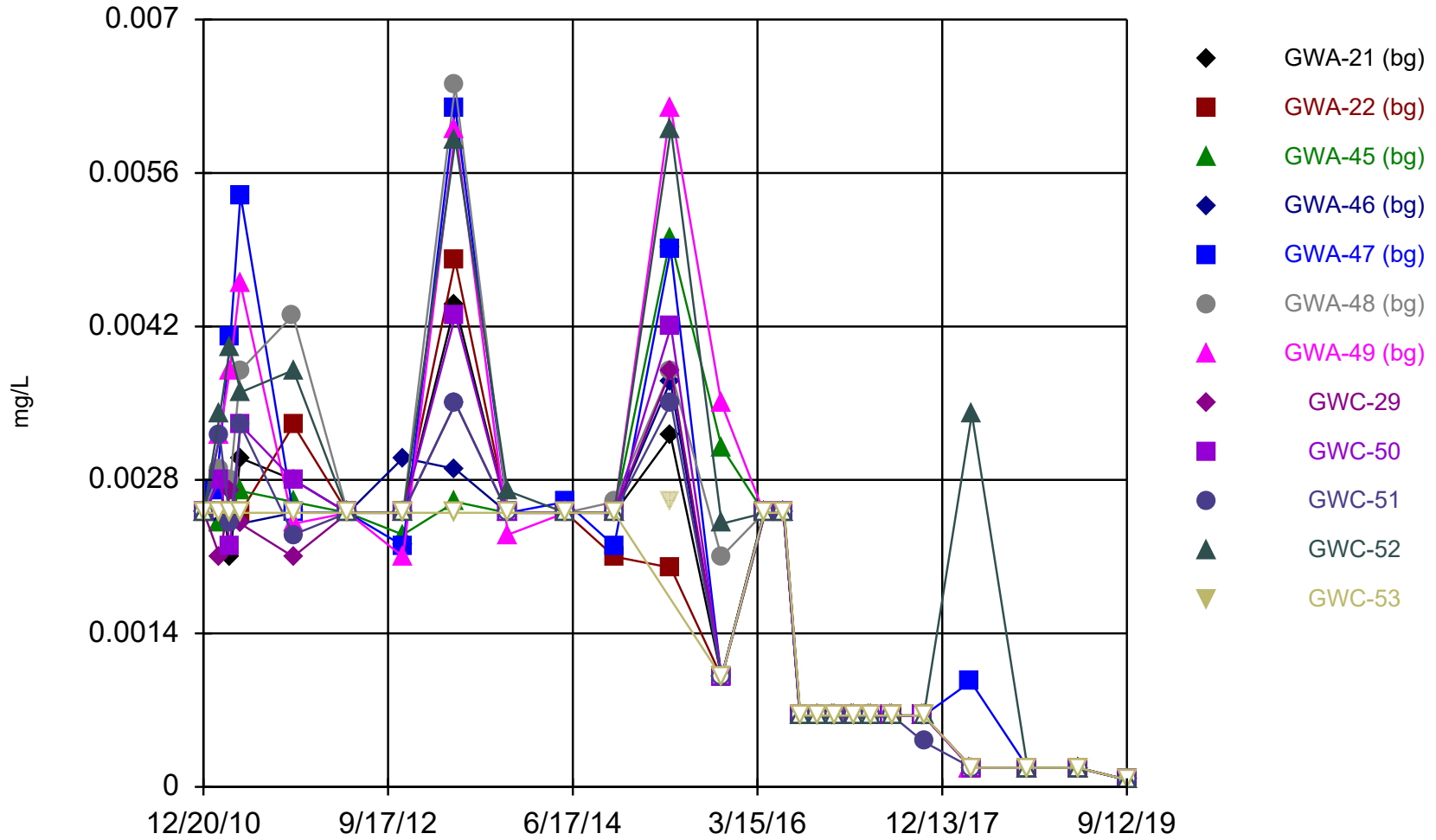
Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series



Constituent: Copper, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR

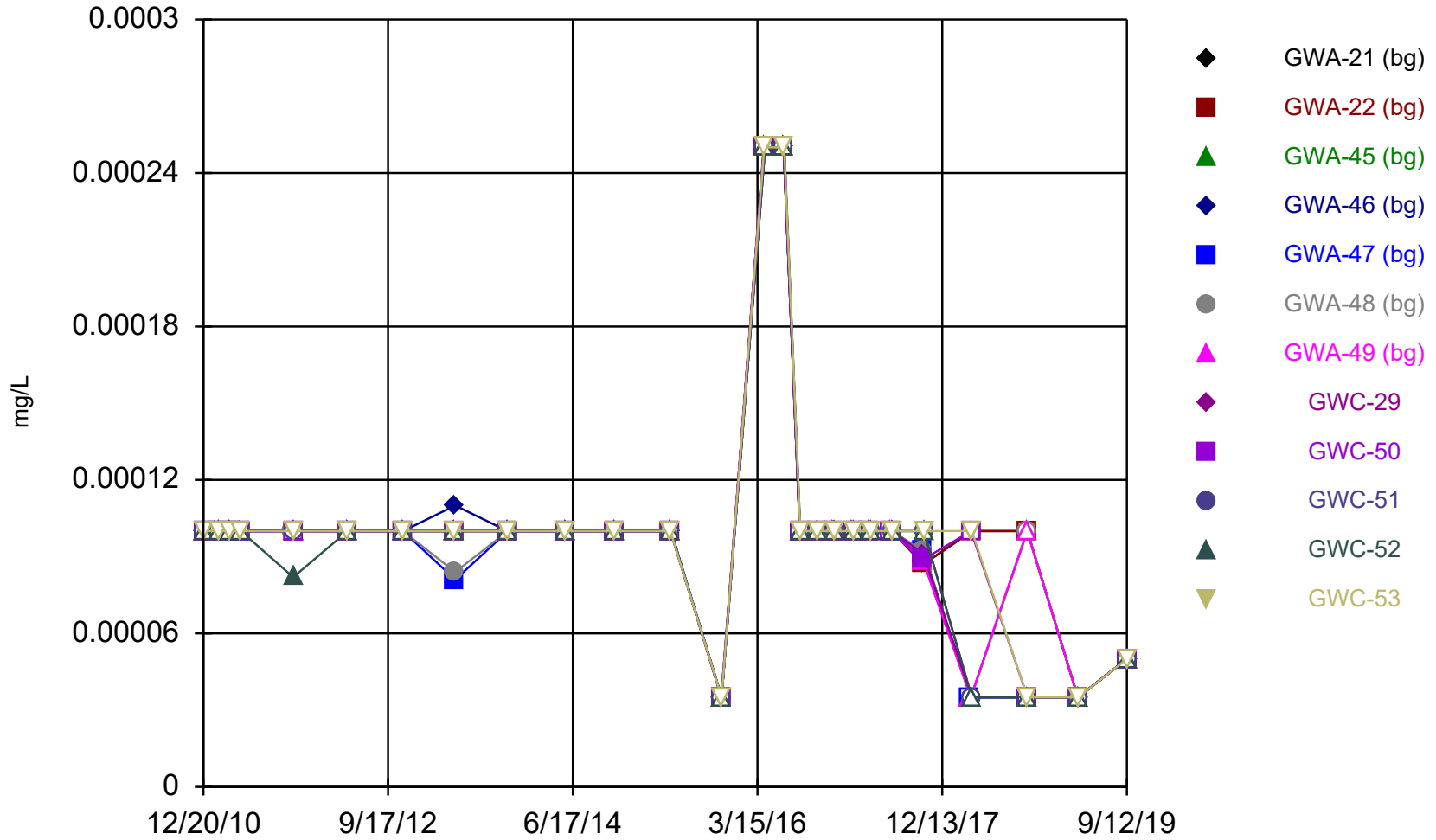
### Time Series



Constituent: Lead, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

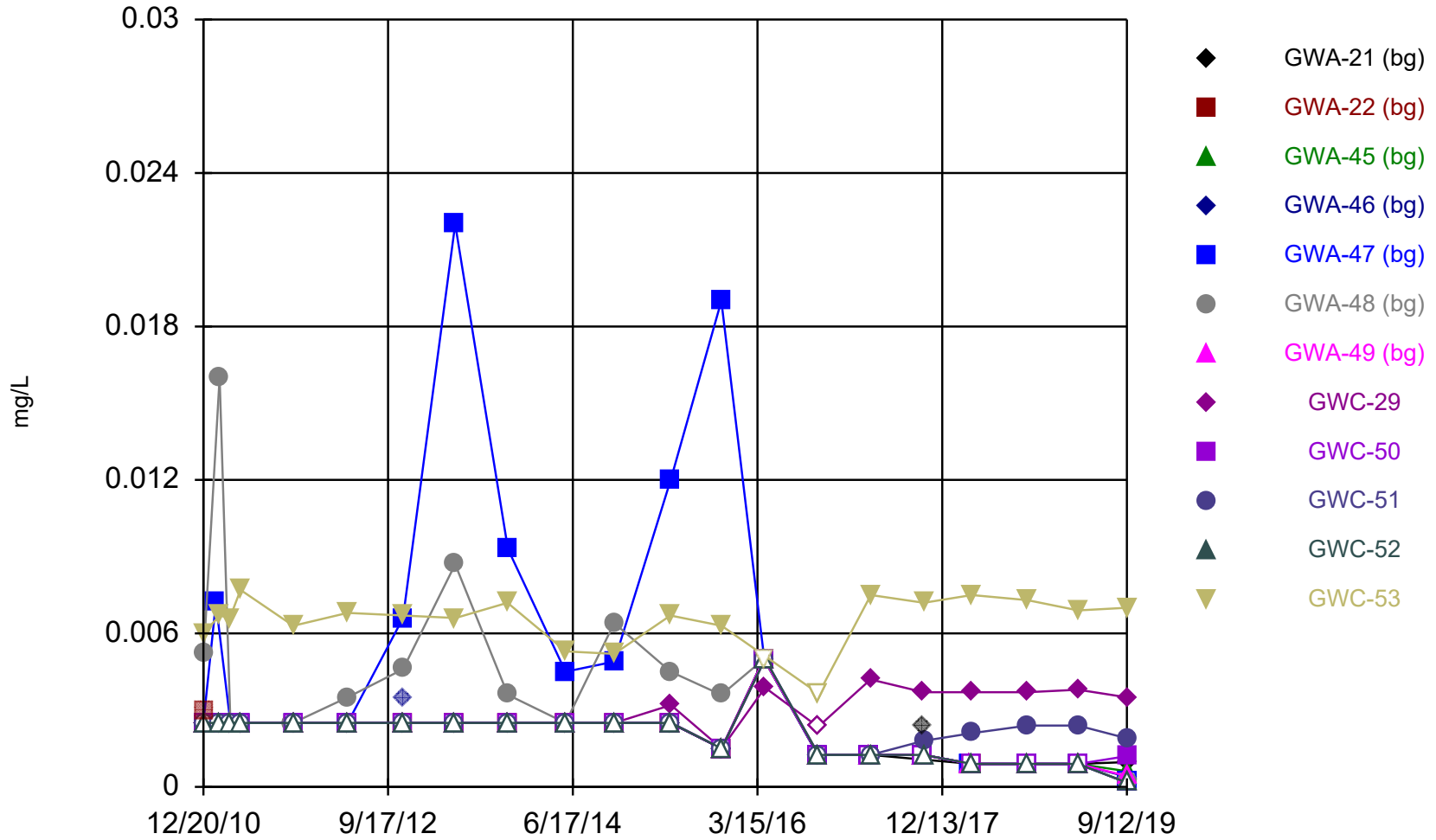
### Time Series



Constituent: Mercury, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs  
Scherer Client: Golder Associates Data: Scherer PAC CCR



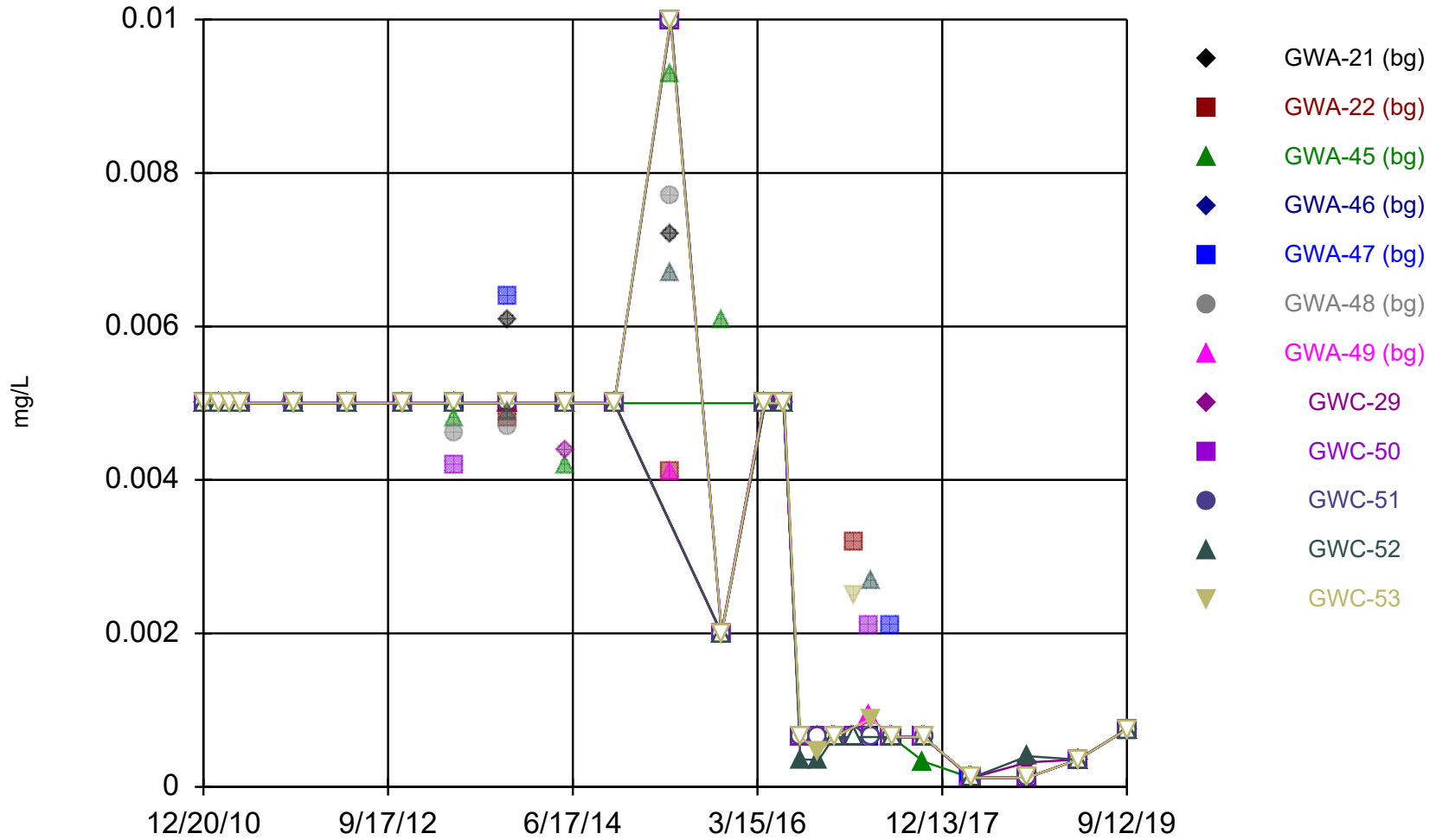
### Time Series



Constituent: Nickel, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

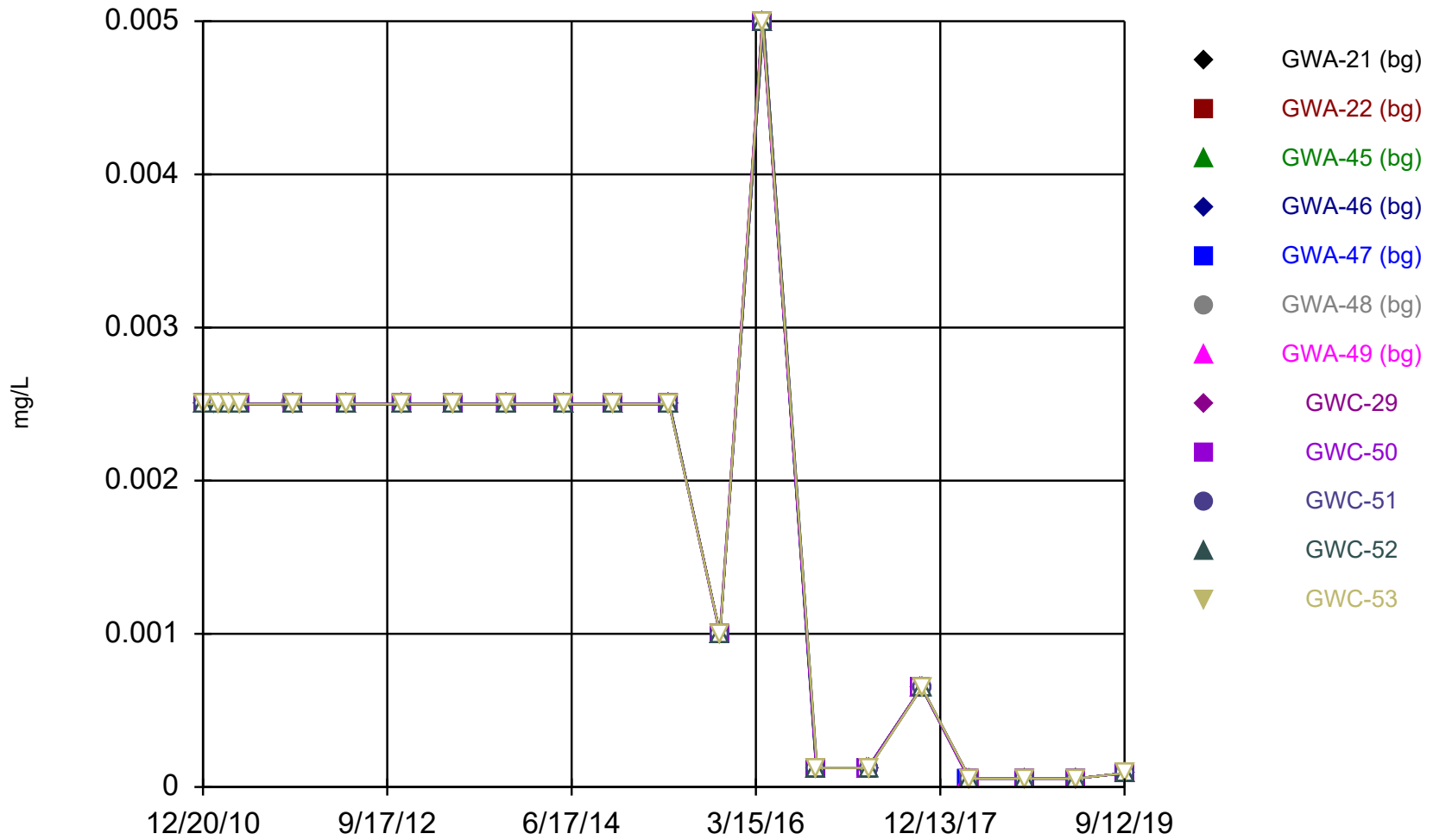
### Time Series



Constituent: Selenium, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

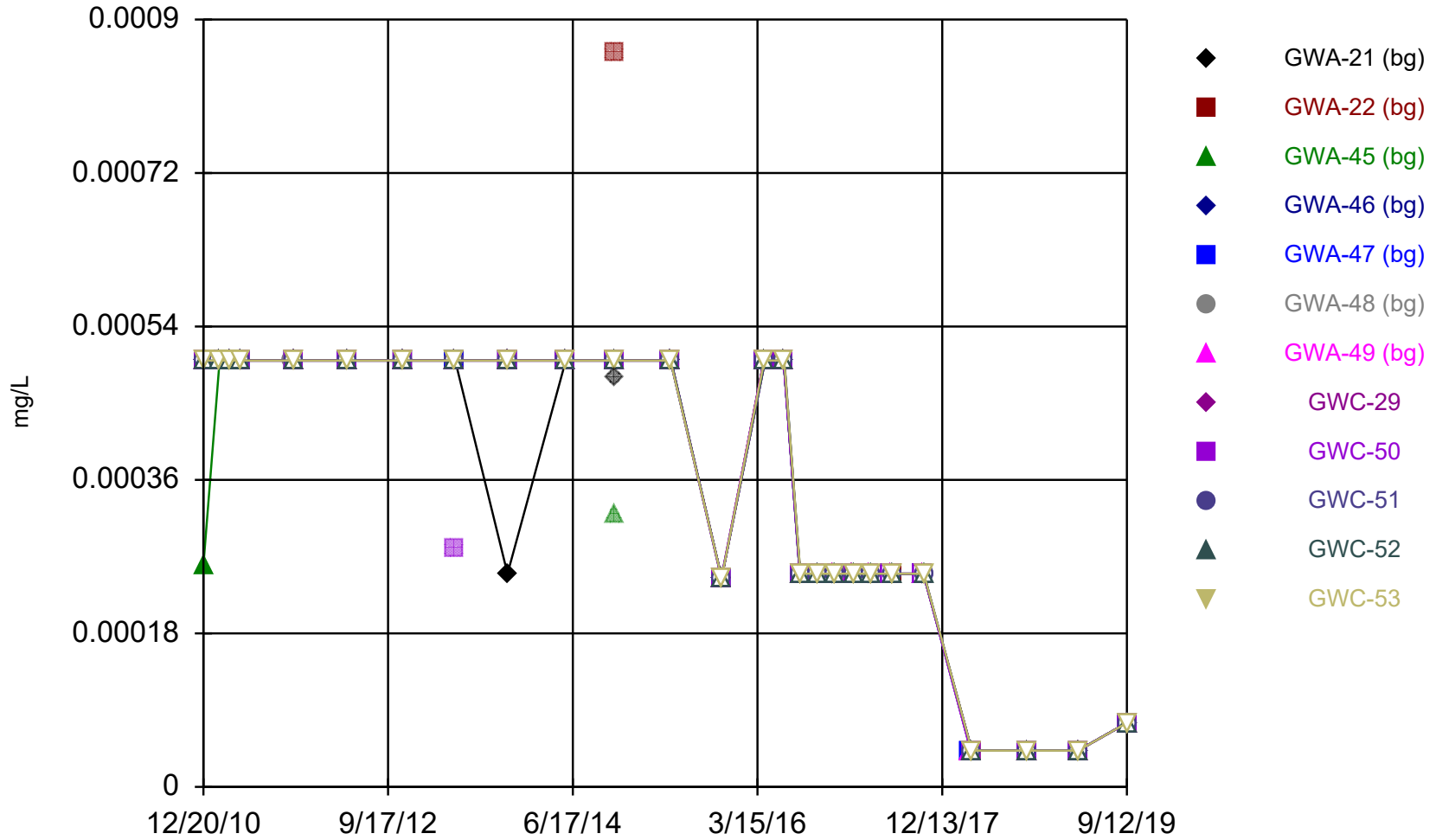
### Time Series



Constituent: Silver, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

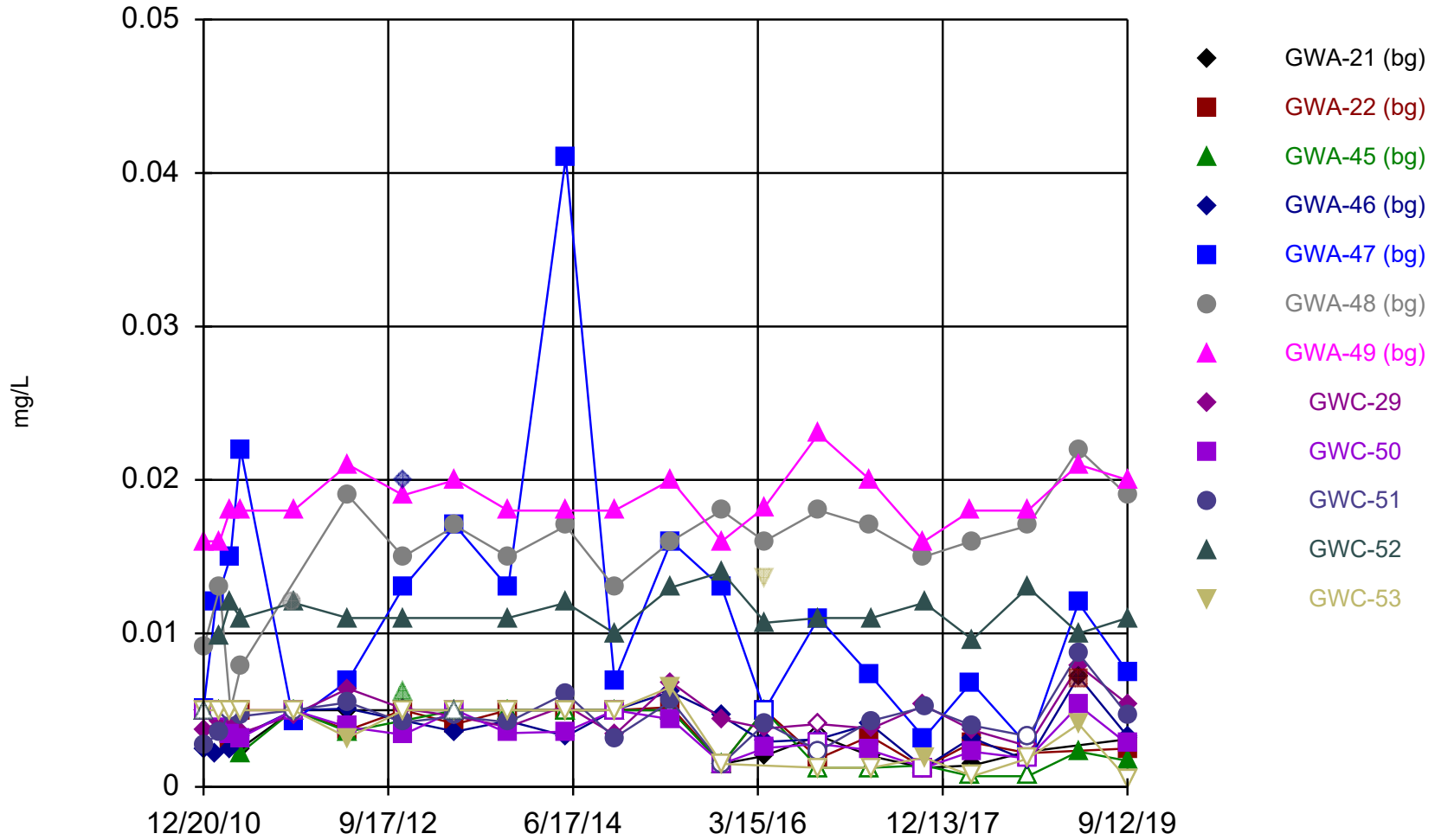
### Time Series



Constituent: Thallium, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

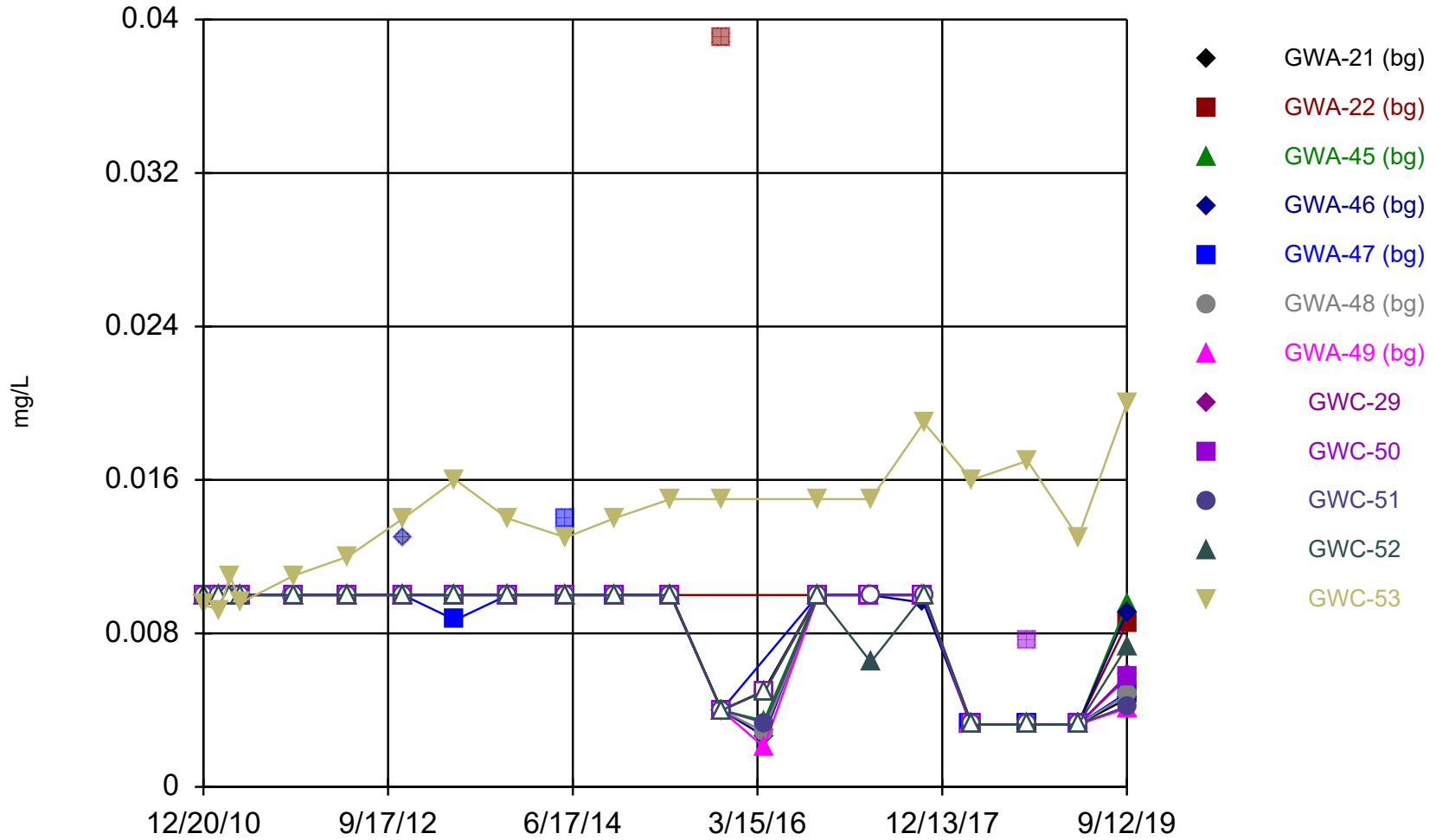
### Time Series



Constituent: Vanadium, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR

### Time Series



Constituent: Zinc, Total Analysis Run 1/27/2020 10:58 PM View: Intra PLs

Scherer Client: Golder Associates Data: Scherer PAC CCR



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